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Manufacturer reserves the right to discontinue or change at any time, specifications or designs without notice and without incurring obligations. Care was taken to make the information as accurate as possible. We do not guarantee, however, that the catalog is free from errors. All products may not be available at all locations. Prices are list prices. These prices are for reference only and may change without notice. Call for current pricing.

Nomenclature



AE	A	4	4	40	Y	XA	XC
Compressor Family	Release Variant (Generation)	Application	Number of Digits In Rated BTU Capacity	First Two Digits of Rated BTU Capacity	Refrigerant	Voltage	Condensing Units

In this example (4) total digits, with the first two (40), or 4,000 BTU capacity

AE
AG
AH
AJ
AK
AN
AV
AW
RG
RK
SA
SF
SA
TP

A = 1st
B = 2nd
C = 3rd
Etc.

Primary Application Parameters		
Evap. Temp	Rating Pt.	Motor Starting Torque
1. Low	-10°F	Normal
2. Low	-10°F	High
3. High	+45°F	Normal
4. High	+45°F	High
5. Air Cond.*	+45°F	Normal
6. Medium	+20°F	Normal
7. Medium	+20°F	High
8. Air Cond.	+49°F	Normal
9. Commercial	+20°F	High
0. Commercial	+20°F	Normal
A. Medium/Low	+20°F	Normal

*Application "5" compressors when applied to condensing units become application "4" in the unit's model number

Primary Refrigerants
A = R12
B = R410A
C = R407C
E = R22
J = R502
Y = R134
Z = R404A/R507

Voltage Codes
XA=115-60-1; 100-50-1
XB=230-60-1; 200-50-1
XC=220-240-50-1
XD=208-230-60-1; 200-50-1
XF=205-230-60-3; 200-240-50-3
XG=460-60-3; 380-420-50-3
XH=575-60-3; 480-520-50-3
XN=208-230-60-1; 200-220-50-1
XP=220-60-1; 200-50-1
XT=200-230-60-3; 200-220-50-3
XU;100-60-1; 100-50-1
XV=265-60-1
AB=115-60-1; 90-50-1

AEA4440YXA

X C	1. E = Evaporative Condensate Units. X = A holding character, reserved for future use.
	2. Condensing Unit Features, see chart below.

Unassigned Letters: R The Letters I, O and Q are eliminated	Fan Cooled	Water Cooled	Air Water Cooled	Receiver Tank	BX Cable	Interconnect Compressor	See B/M	Accumulator
A Standard Unit	√							
B Std. Unit w/Receiver Tank	√			√				
C Std. Unit w/Tank & BX Cable	√			√	√			
D Std. Unit w/BX Cable	√				√			
E,F,K Physical Design Variant (Conduit)	√				√		√	
G,H,J,L,P Physical Design Variant (Standard)	√						√	
M Advance Commercial Design	√			√	√			√
N Advanced Commercial Design	√				√			√
S Customer Special							√	
T Interconnect Compressor						√		
U Water Cooled- Adv. Commercial Design		√		√	√			√
V Electrical Special (Conduit Design)	√				√		√	
W Water Cooled Unit		√		√	√			
X Interconnect Unit	√			√	√	√		
Y Air Water Cooled Unit			√		√			
Z Electrical Special (Standard Unit)	√						√	

January - A | February - B | March - C
 April - D | May - E | June - F
 July - G | August - H | September - J
 October - K | November - L | December - M

Manufacturing Code Date
 Month = September

0J0
 Year = 2000

The letter represents the month
 The numbers represent the year

Compressors	Thermally Protected	VOLTAGE	EVAP. RANGE(°F)
NO. R.L.A. E.A.	L.R.A. E.A.	PH. 60HZ	50HZ
1 8.8	58.8	1 115	-10 TO +45F
FANS:			
NO. F.L. E.A.	H.P.	PROTECTED	PH. MIN. CIRCUIT AMPACITY
1 1.4	35W	THERMALLY	1 12.4
SER 0J0066332	MAX FUSE	MAX. CKT. BKR	REFRIG. OZ. CHARGE
EM 2C234-9	20		R-22 444
SER AKA9446EXAXC			MADE IN USA

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



Air Conditioning and Heat Pump Compressors



R22

Air Conditioning Compressors

Rated At 45°F Evap, 130°F Cond.

Operating Range +20°F To 55°F

HP	Model	Volts/Phase	Rated BTU / HR	RLA	List
3/4	AKA5483EXA	115-60-1	8300	9.0	600.00
3/4	AKA5483EXD	208-230-60-1	8300	4.4	588.00
1	AKA5510EXA	115-60-1	10000	10.5	608.00
1	AKA5510EXD	208-230-60-1	10000	5.7	616.00
1	AKA5511EXA	115-60-1	11000	11.0	620.00
1	AKA5512EXA	115-60-1	12000	12.5	634.00
1	AKA5512EXD	208-230-60-1	12000	6.8	618.00
1 1/2	AWZ5520EXN	208-230-60-1	20000	9.7	798.00
2	AWZ5524EXN	208-230-1	24000	11.0	840.00
2 1/4	AWZ5528EXN	208-230-60-1	28000	13.0	876.00
2 1/2	AWG5530EXN	208-230-60-3	30000	15.1	912.00
2 1/2	AVA5532EXN	208-230-60-1	32000	14.5	908.00
2 1/2	AVA5532EXT	208-230-60-3	32000	8.6	1046.00
2 3/4	AVA5535EXN	208-230-60-1	35000	15.8	918.00
2 3/4	AVA5535EXT	208-230-60-3	35000	9.7	1048.00
3	AVA5538EXN	208-230-60-1	38000	17.2	950.00
3	AVA5538EXT	208-230-60-3	38000	10.8	1070.00
3 1/2	AVA5542EXN	208-230-60-1	42000	19.7	968.00
3 1/2	AVA5542EXT	208-230-60-3	42000	12.0	1088.00
3 3/4	AVA5546EXN	208-230-60-1	46000	21.5	1042.00
3 3/4	AVA5546EXT	208-230-60-3	46000	13.3	1232.00
4	AVB5549EXN	208-230-60-1	49000	20.5	1268.00
4	AVB5549EXT	208-230-60-3	49000	13.5	1384.00
4 1/2	AGA5553EXN	208-230-60-1	54000	26.2	1516.00
4 1/2	AGA5553EXT	208-230-60-3	54000	15.5	1584.00
4 1/2	AGA5553EXH	575-60-3	54000	-	1578.00
4 3/4	AVB5558EXN	208-230-60-1	58000	24.8	1358.00
4 3/4	AVB5558EXT	208-230-60-3	58000	15.7	1468.00
5	AGA5561EXN	208-230-60-1	61000	30.5	1640.00
5	AGA5561EXT	208-230-60-3	61000	18.0	1692.00
5	AGA5561EXG	460-60-3	61000	9.5	1702.00
5	AGA5561EXH	575-60-3	61000	7.0	1718.00
5 1/2	AGA5568EXN	208-230-60-1	68000	34.5	1746.00
5 1/2	AGA5568EXT	208-230-3	68000	20.0	1790.00
5 1/2	AGA5568EXG/H	460-60-3 / 575-60-3	68000	10.6/8.2	1796.00



Low Temp Refrigeration Compressors



R404a Low Temperature Refrigeration Compressors

Rated At -10°F Evap, 130°F Cond.			Operating Range -40 To +10°F		
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1/5	AEA2380ZXA	115-60-1	800	4.40	408.00
1/4	AEA2411ZXA	115-60-1	1100	5.90	416.00
1/2	AJA2419ZXA	115-60-1	1900	6.7	930.00
	AJA2425ZXA	115-60-1	2450	7.9	900.00
	AJA2425ZXD	208-230-60-1	2450	4.4	990.00
1	AWA2440ZXD	208-230-60-1	4000	5.3	1468.00
	AWA2440ZXT	208-230-60-3	4000	3.8	1464.00
1 1/2	AWA2460ZXD	208-230-60-1	6000	8.2	1504.00
	AVA2460ZXT	208-230-60-3	6000	5.6	1534.00
2 1/4	AVA2490ZNX	208-230-60-1	9000	11.4	1468.00
	AVA2490ZXT	208-230-60-3	9000	7.4	1448.00
3	AVA2512ZNX	208-230-60-1	12000	16.9	1698.00
	AVA2512ZXT	208-230-60-3	12000	9.3	1562.00

AW



R12 Low Temperature Refrigeration Compressors

Rated At -10°F Evap, 130°F Cond. Range Low -40 to +10F					
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1/2	AJA2425AXA	115-60-1	2500	7.9	944.00

AJ



R134a Low Temperature Refrigeration Compressors

Rated At -10°F Evap, 130°F Cond.			Operating Range -40 To +10°F		
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1/5	AEA1360YXA	115-60-1	600	2.05	178.00
	AEA1380YXA	115-60-1	800	3.10	164.00
1/4	AEA2410YXA	115-60-1	1000	5.60	424.00
1/3	AEA2413YXA	115-60-1	1300	5.90	360.00
1/2	AJA2419YXA	115-60-1	1900	7.30	946.00

R22 Commercial Temp Refrigeration Compressors

Rated At 20°F Evap, 130°F Cond.			Operating Range -10 to +45°F		
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1/5	AEA0415EXA	115-60-1	1500	3.7	400.00
	AEA9415EXA	115-60-1	1490	4.3	412.00
1/4	AEA9422EXA	115-60-1	2200	6.1	360.00
1/3	AKA9428EXA	115-60-1	2800	7.3	834.00
1/2	AKA9442EXA	115-60-1	4200	8.8	842.00
	AKA9442EXD	208-230-60-1	4200	4.0	848.00
3/4	AKA9455EXD	208-230-60-1	5500	4.9	872.00
3/4	AKA9462EXD	208-230-60-1	6200	5.3	898.00
1	AJA9484EXD	208-230-60-1	8400	6.9	1162.00

AK



R404a Commercial Temperature Refrigeration Compressors

AE



Rated At 20°F Evap, 130°F Cond.		Operating Range -10 To +45°F			
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1/5	AEA9415ZX	115-60-1	1500	4.3	412.00
1/4	AEA9422ZX	115-60-1	2200	6.1	436.00
1/3	AKA9427ZX	115-60-1	2700	7.80	754.00
1/2	AKA9438ZX	115-60-1	3800	9.20	814.00
	AKA9438XD	208-230-60-1	3800	4.3	830.00
3/4	AKA9455ZX	115-60-1	5500	10.1	850.00
	AKA9455XD	208-230-60-1	5500	5.70	846.00
	AKA9462ZX	115-60-1	6250	11.9	856.00
	AKA9462XD	208-230-60-1	6250	6.80	912.00

AW



R134a Medium Temperature Refrigeration Compressors

Rated At 20°F Evap, 130°F Cond.		Operating Range -10 to +30F			
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
3/4	AJA7461YX	115-60-1	6100	10.10	1016.00
	AJA7461YD	208-230-60-1	6100	6.40	940.00

R12 Medium Temperature Refrigeration Compressors

Rated At 20°F Evap, 130°F Cond.		Operating Range -10 to +30F			
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1/2	AJA7441AX	115-60-1	4100	8.8	868.00
	AJA7441XD	208-230-60-1	4100	5.0	910.00
	AKA9441AX	115-60-1	4100	9.2	766.00

R404a Medium Temperature Refrigeration Compressors

Rated At 20°F Evap, 130°F Cond.		Operating Range -10 To +30°F			
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1	AJA7494XD	208-230-60-1	9400	8.9	1096.00
1 1/2	AWA7512XD	208-230-60-1	12000	9.55	1468.00
	AWA7512XT	208-230-60-3	12000	8.04	1396.00
2	AWA7515XD	208-230-60-1	15000	12.5	1524.00
	AWA7515XT	208-230-60-3	15000	7.70	1528.00
3	AVA7524ZX	208-230-60-1	24000	16.7	1626.00
	AVA7524XT	208-230-60-3	24000	10.9	1616.00



AK

AE



R22 High Temperature Refrigeration Compressors

Rated At 45°F Evap, 130°F Cond.		Operating Range +20 to+ 55°F			
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1 3/4	AWG4520EXN	208-230-60-1	20500	9.5	918.00
	AWG4520EXT	208-230-60-3	20500	6.1	1228.00
2	AWG4524EXN	208-230-60-1	24200	11.7	984.00
	AWG4524EXT	208-230-60-3	24200	7.3	1220.00

R134a High Temperature Refrigeration Compressors

Rated At 45°F Evap, 130°F Cond.		Operating Range +20 To +55°F			
HP	Part Number	Volts/Phase	Rated BTU/hr	RLA	List
1/6	AEA3414YXA	115-60-1	1400	2.90	334.00
1/5	AEA3417YXA	115-60-1	1700	3.40	340.00
1/5	AEA3425YXA	115-60-1	2500	4.40	344.00
1/4	AEA3430YXA	115-60-1	3000	5.40	360.00
	AEA4430YXA	115-60-1	3000	5.30	280.00
1/3	AEA4440YXA	115-60-1	4000	7.20	290.00
	AEA4448YXA	115-60-1	4800	8.10	418.00
1/2	AKA4460YXA	115-60-1	6000	9.50	802.00
	AKA4460YXD	208-230-60-1	6000	4.80	742.00
1/2	AKA4476YXA	115-60-1	7600	11.30	844.00
	AKA4476YXD	208-230-60-1	7600	5.70	850.00
3/4	AJA4492YXA	115-60-1	9200	13.00	920.00
	AJA4492YXD	208-230-60-1	9200	7.00	894.00
1	AJA4512YXD	208-230-60-1	12200	7.00	1066.00

AW



Water Cooled Condensing Units

R22 Commercial & High Temperature Water Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Min Amp	Connection		Capacity (BTUH At 90°F Ambient)								List
					Suction	Liquid	-10	0	10	20	25	30	35	40	
1/3	AEA9423EXAXW	115-60-1	15.0	7.6	3/8 F	1/4 F			2000	2575	2980	3345	3760	4180	1442.00
1/2	AKA9457EXAXW	115-60-1	20.0	11.0	1/2 F	1/4 F	1194	2123	3768	5501	6334	7167	8155	9142	1712.00
	AKA9457EXDXW	208-230-60-1	15.0	5.4	1/2 F	1/4 F	1194	2123	3768	5501	6334	7167	8155	9142	1752.00
3/4	AKA9479EXDXW	208-230-60-1	15.0	6.9	1/2 F	1/4 F	1406	3 409	5641	7806	8957	10108	11427	12746	1872.00
1	AJA9511EXDXW	208-230-60-1	15.0	8.6	1/2 F	3/8 F	1886	4570	7726	10711	12216	13720	15416	17111	2194.00
1 1/2	AWG9513EXTXW	208-230-60-3	15.0	7.9	7/8 F	3/8 F	-	-	-	12195	14144	16092	18041	20700	2168.00
	AWG4520EXNXW	208-230-60-1	20.0	12.1	5/8 S	3/8 F	-	-	-	11390	13447	15575	18600	20805	1886.00
2	AWG4524EXNXW	208-230-60-1	25.0	14.0	5/8 S	3/8 F	-	-	-	14669	16950	19232	22017	24802	2144.00
	AWG4524EXTXW	208-230-60-3	15.0	10.9	5/8 S	3/8 F	-	-	-	14669	16950	19232	22017	24802	2436.00



Water Cooled Condensing Units

R134a

Medium / High Temperature Water Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)						List
					Suction	Liquid	20	25	30	35	40	45	
1/4	AEA4430YXAXW	115-60-1	15.0	6.7	3/8 F	1/4 F	1890	2180	2470	2825	3180	3570	1248.00
1/3	AEA4440YXAXW	115-60-1	15.0	9.0	3/8 F	1/4 F	2500	2850	3200	3650	4100	4600	1316.00
5/8	AKA4475YXAXW	115-60-1	20.0	11.9	1/2 F	1/4 F	3800	4428	5050	5825	6600	7500	1598.00
	AKA4475YXDXW	208-230-60-1	15.0	6.0	1/2 F	1/4 F	3800	4428	5050	5825	6600	7500	1604.00
3/4	AKA4490YXAXW	115-60-1	25.0	14.1	1/2 F	3/8 F	4700	5420	6100	7050	8000	9000	1614.00
	AKA4490YXDXW	208-230-60-1	15.0	7.1	1/2 F	3/8 F	4700	5420	6100	7050	8000	9000	1648.00
	AJA4510YXDXW	208-230-60-1	15.0	8.8	1/2 F	3/8 F	5400	6200	7000	8000	9000	10200	1734.00
	AJA7465YXAXW	115-60-1	25.0	14.5	5/8 F	3/8 F	7580	8798	9860	10013	-	-	1726.00
	AJA7465YXDXW	208-230-60-1	15.0	8.0	5/8 F	3/8 F	7580	8797	9860	10013	-	-	1758.00
1	AJA4514YXDXW	208-230-60-1	15.0	8.8	1/2 F	3/8 F	7500	8550	9500	11000	12500	14000	1996.00



R404a

Commercial Water Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)						List
					Suction	Liquid	-10	0	10	20	25	30	
1/2	AKA9442ZXAXW	115-60-1	20.0	11.5	1/2 F	1/4 F		2400	3600	5000	5800	6600	1654.00
	AKA9442ZXDXW	208-230-60-1	20.0	5.4	1/2 F	1/4 F		2400	3600	5000	5800	6600	1700.00
3/4	AKA9467ZXAXW	115-60-1	20.0	12.5	1/2 F	1/4 F		3600	5000	6700	7550	8400	1844.00
	AKA9467ZXDXW	208-230-60-1	15.0	7.1	1/2 F	1/4 F		3600	5000	6700	7550	8400	1860.00
1	AKA9476ZXDXW	208-230-60-1	15.0	8.5	1/2 F	1/4 F		4300	5800	7600	8600	9600	1824.00

R404a

Low Temperature Water Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)						List
					Suction	Liquid	-40	-30	-20	-10	0	10	
1/2	AJA2424ZXAXW	115-60-1	15.0	10.7	1/2 F	3/8 F	600	1100	1700	2400	3100	4000	2002.00
	AJA2424ZXDXW	208-230-60-1	15.0	4.7	1/2 F	3/8 F	600	1100	1700	2400	3100	4000	2170.00
3/4	AJA2433ZXDXW	208-230-60-1	15.0	5.9	1/2 F	3/8 F	497	1101	1956	3100	4773	6926	2086.00
1 1/4	AWA2453ZXDXU	208-230-60-1	15.0	11.2	7/8 F	3/8 F	1164	2109	3497	5282	7415	9847	2252.00
2	AWA2488ZXDXU	208-230-60-1	25.0	16.1	7/8 F	3/8 F	2046	3796	6024	8764	12047	15908	2282.00
	AWA2488ZXTXU	208-230-60-3	20.0	10.9	7/8 F	3/8 F	2046	3796	6024	8764	12047	15908	2464.00
3	AVA2512ZXNXU	208-230-60-1	35.0	20.3	7/8 R/S	3/8 F	3570	5975	8900	12540	17075	22650	2552.00
	AVA2512ZXTXU	208-230-60-3	20.0	12.7	7/8 R/S	3/8 F	3570	5975	8900	12540	17075	22650	2662.00



Air Cooled Condensing Units



R134a

High Temperature Air Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)						List	
					Suction	Liquid	20	25	30	35	40	45		50
1/6	AEA3414YXAXC	115-60-1	15.0	4.0	3/8 F	3/8 F	860	930	1010	1100	1190	1280	1380	616.00
1/5	AEA3425YXAXC	115-60-1	15.0	5.9	3/8 F	3/8 F	1460	1620	1790	1970	2140	2330	2520	666.00
1/4	AEA3430YXAXC	115-60-1	15.0	7.3	3/8 F	3/8 F	1710	2000	2200	2400	2600	2820	3070	660.00
	AEA4430YXAXC	115-60-1	15.0	7.1	3/8 F	1/4 F	1740	1940	2140	2360	2590	2820	3050	742.00
1/3	AEA4440YXAXC	115-60-1	15.0	9.5	3/8 F	1/4 F	2300	2530	2780	3050	3340	3630	3940	780.00
	AEA4448YXAXC	115-60-1	15.0	10.7	3/8 F	1/4 F	2890	3180	3460	3780	4080	4400	4750	962.00
1/2	AKA4460YXAXC	115-60-1	20.0	12.4	1/2 F	1/4 F	3570	4000	4450	4900	5390	5880	6370	1154.00
	AKA4460YXDXC	208-230-60-1	15.0	6.3	1/2 F	1/4 F	3570	4000	4450	4900	5390	5880	6370	1236.00
	AKA4476YXAXC	115-60-1	25.0	15.5	1/2 F	1/4 F	4400	4900	5400	5950	6500	7100	7700	1536.00
	AKA4476YXDXC	208-230-60-1	15.0	7.6	1/2 F	1/4 F	4400	4900	5400	5950	6500	7100	7700	1558.00
3/4	AJA4492YXAXC	115-60-1	30.0	17.7	5/8 RF	3/8 F	5120	5700	6270	6860	7480	8070	8780	1556.00
	AJA4492YXDXC	208-230-60-1	15.0	9.5	5/8 RF	3/8 F	5120	5700	6270	6860	7480	8070	8780	1552.00
1	AJA4512YXDXC	208-230-60-1	15.0	9.6	5/8 F	3/8 F	7250	8200	9100	10100	11100	12200	13300	1780.00

R22

High Temperature Air Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)						List	
					Suction	Liquid	10	20	25	30	35	40		45
1 1/4	AWG4516EXNXC	208-230-60-1	15.0	11.3	7/8 S	3/8 S	7390	9350	10460	11670	12960	14340	15820	2074.00
	AWG4516EXTXC	208-230-60-3	15.0	8.6	7/8 S	3/8 S	7390	9350	10460	11670	12960	14340	15820	2404.00
1 3/4	AWG4520EXNXC	208-230-60-1	20.0	13.4	7/8 S	3/8 S	9211	11819	13189	14604	16063	17566	19114	2122.00
	AWG4520EXTXC	208-230-60-3	15.0	9.1	7/8 S	3/8 S	9211	11819	13189	14604	16063	17566	19114	2452.00
2	AWG4524EXNXM	208-230-60-1	25.0	17.4	7/8 S	3/8 S	11408	14663	16408	18232	20134	22115	24174	2908.00
	AWG4524EXTXM	208-230-60-3	15.0	11.9	7/8 S	3/8 S	11408	14663	16408	18232	20134	22115	24174	3106.00
2 1/2	AWG4530EXNXM	208-230-60-1	35.0	19.5	7/8 S	3/8 S	14870	18728	20827	23039	25363	27801	30352	3204.00
	AWG4530EXTXM	208-230-60-3	20.0	13.7	7/8 S	3/8 S	14870	18728	20827	23039	25363	27801	30352	3404.00
3 1/2	AVA4540EXNXM	208-230-60-1	50.0	29.3	7/8 S	3/8 S	19641	24901	27646	30467	33364	36337	39386	3486.00
	AVA4540EXTXM	208-230-60-3	30.0	19.4	7/8 S	3/8 S	19641	24901	27646	30467	33364	36337	39386	3510.00
4	AGA4553EXNXM	208-230-60-1	60.0	37.3	7/8 C	1/2 F		35000	38250	41500	45350	49200	53000	5262.00
	AGA4553EXTXM	208-230-60-3	40.0	23.7	7/8 C	1/2 F		35000	38250	41500	45350	49200	53000	5158.00
5	AGA4563EXDXM	208-230-60-1	70.0	42.1	7/8 C	1/2 F		42000	46000	50000	54000	58000	62450	5728.00
	AGA4563EXTXM	208-230-60-3	45.0	27.5	7/8 C	1/2 C		42000	46000	5000	54000	58000	62450	5586.00

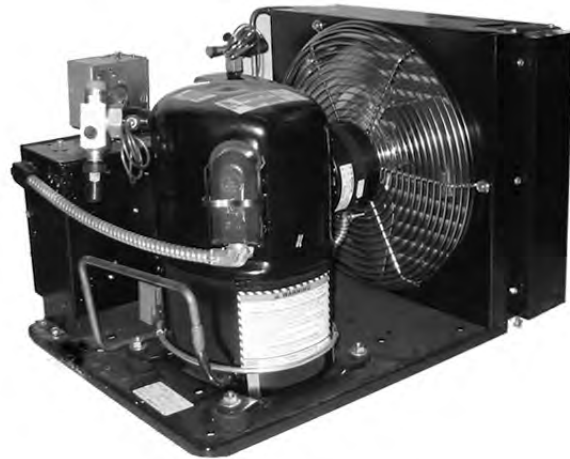
British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



R134a

Medium Temperature Air Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)								List
					Suction	Liquid	-10	-5	0	5	10	15	20	25	
1/2	AKA7437YXAXC	115-60-1	20.0	11.5	1/2 F	1/4 S	1650	1950	2250	2600	3000	3400	3800	4250	1268.00
3/4	AJA7465YXAXC	115-60-1	25.0	14.0	5/8 RF	3/8 F	2330	2870	3450	4030	4650	5290	5920	6600	1674.00
	AJA7465YXDXC	208-230-60-1	15.0	8.7	5/8 RF	3/8 F	2330	2870	3450	4030	4650	5290	5920	6600	1682.00

R404a

Medium Temperature Air Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)							List
					Suction	Liquid	-20	-10	0	10	20	25	30	
1	AJA7480ZXDXC	208-230-60-1	20.0	12.4	5/8 F	3/8 F		4330	5500	6720	7980	8620	9520	1926.00
1 1/2	AWA7512ZXDXC	208-230-60-1	30.0	17.6	7/8 S	3/8 S		5910	7686	9694	11934	13142	14407	2260.00
	AWA7512ZXTXC	208-230-60-3	20.0	12.6	7/8F	3/8 F	3609	5583	7647	9801	12045	13201	14379	2410.00
2	AWA7515ZXDXC	208-230-60-1	35.0	21.6	7/8 S	3/8 S	5054	7042	9149	11376	13722	14941	16189	2360.00
	AWA7515ZXTXC	208-230-60-3	20.0	11.9	7/8 S	3/8 S	5054	7042	9149	11376	13722	14941	16189	2462.00
3	AVA7523ZNXNC	208-230-60-1	50.0	30.0	7/8 S	3/8 S		11958	13633	15360	17139	18971	20856	3744.00
	AVA7523ZXTXC	208-230-60-3	25.0	17.1	7/8 S	3/8 S		11958	13633	15360	17139	18971	20856	3570.00

R22

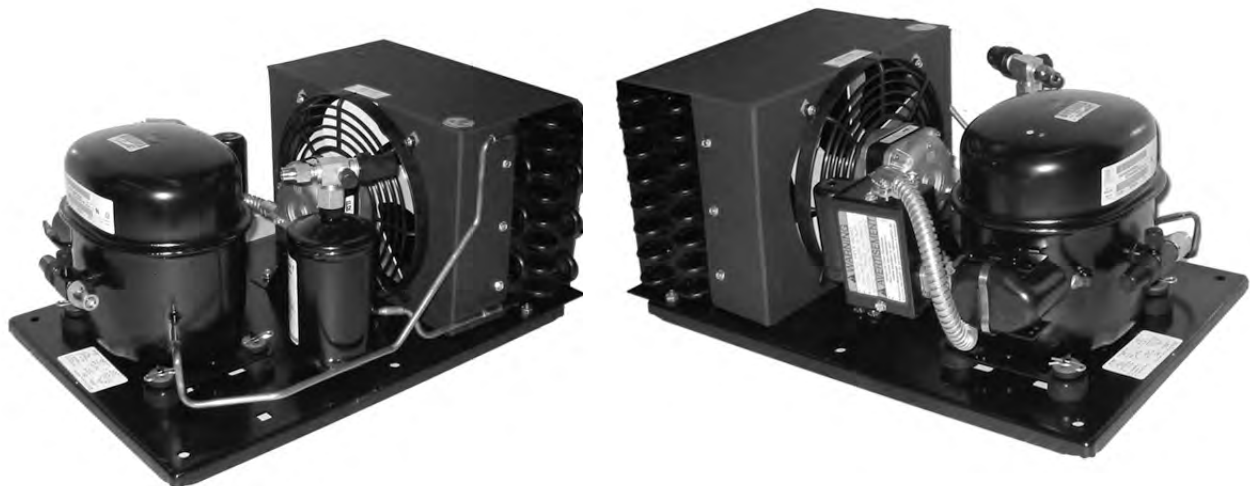
Commercial Temperature Air Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)								List
					Suction	Liquid	-10	0	10	20	25	30	35	40	
1/5	AEA0417EXAXA	115-60-1	15.0	5.1	3/8 F	3/8 F	840	1100	1410	1760	1950	2130	2320	2530	674.00
1/4	AEA9423EXAXC	115-60-1	15.0	8.1	3/8 F	1/4 F		1430	1840	2300	2580	2860	3190	3560	728.00
1/3	AKA9433EXAXC	115-60-1	15.0	9.6	1/2 F	1/4 F	1220	1890	2580	3320	3710	4030	4600	5100	1166.00
1/2	AKA9446EXAXC	115-60-1	20.0	12.4	1/2 F	1/4 F	1800	2600	3500	4600	5150	5700	6300	6900	1240.00
	AKA9446EXDXC	208-230-60-1	15.0	6.1	1/2 F	1/4 F	1800	2600	3500	4600	5150	5700	6300	6900	1346.00
3/4	AKA9461EXDXC	208-230-60-1	15.0	7.5	1/2 F	3/8 F	2600	3500	4700	6100	6900	7700	8500	9300	1600.00
1	AKA9470EXDXC	208-230-60-1	15.0	7.7	1/2 F	3/8 F	3200	4300	5600	7000	7800	8500	9300	10100	1684.00
	AJA9486EXDXC	208-230-60-1	15.0	9.5	5/8 F	3/8 F	3600	5100	6800	8600	9500	10400	11400	12400	2102.00

R404a

Commercial Temperature Air Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)								List
					Suction	Liquid	-10	0	10	20	25	30	35	40	
1/4	AKA9422ZXAXC	115-60-1	15.0	8.8	3/8 F	3/8 F	1240	1540	1860	2200	2380	2570	2770	2980	984.00
1/3	AKA9429ZXAXC	115-60-1	15.0	10.3	1/2 F	1/4 F	990	1610	2230	2850	3160	3470	3780	4090	1206.00
1/2	AKA9440ZXAXC	115-60-1	20.0	12.9	1/2 F	1/4 F	1700	2375	3200	4050	4500	5000	5525	6050	1288.00
	AKA9440ZXDXC	208-230-60-1	15.0	6.1	1/2 F	1/4 F	1700	2375	3200	4050	4500	5000	5525	6050	1332.00
3/4	AKA9460ZXAXC	208-230-60-1	15.0	8.0	1/2 F	3/8 F	3310	3980	4900	5980	6600	7250	7900	8600	1606.00
	AKA9463ZXDXC	208-230-60-1	15.0	9.6	1/2 F	3/8 F	3390	4200	5230	6280	6900	7650	8200	8900	1650.00



R404a

Low Temperature Air Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)								List
					Suction	Liquid	-40	-30	-25	-20	-15	-10	0	10	
1/4	AEA2410ZXAXA	115-60-1	15.0	6.0	3/8 F	3/8 F	400	580	670	770	880	1000	1240	1500	910.00
1/3 1/4	AEA2413ZXAXC	115-60-1	15.0	7.8	3/8 F	1/4 F	-	850	960	1080	1210	1340	1610	1870	990.00
	AJA2422ZXAXC	115-60-1	15.0	7.8	3/8 F	1/4 F	-	1290	1500	1710	1950	2180	2660	3160	1072.00
3/4	AJA2429ZXAXA	115-60-1	15.0	11.7	1/2 RF	3/8 F	720	1400	1750	2130	2500	2890	3700	4520	1384.00
1	AWA2448ZXDXM	208-230-60-1	15.0	12.0	5/8 S	3/8 S	1388	2418	2978	3568	4188	4838	6227	7736	2216.00
1 1/2	AWA2464ZXDXM	208-230-60-1	25.0	16.9	7/8 S	3/8 S	2572	3810	4449	5102	5769	6450	7854	9313	2316.00
	AWA2464ZXTXM	208-230-60-3	20.0	11.6	7/8 S	3/8 S	2572	3810	4449	5102	5769	6450	7854	9313	2450.00
2	AWA2479ZXDXM	208-230-60-1	25.0	17.1	7/8 S	3/8 S	2337	4080	4990	5925	6885	7871	9918	12067	2392.00
	AWA2479ZXTXM	208-230-60-3	20.0	11.8	7/8 S	3/8 S	2337	4080	4990	5925	6885	7871	9918	12067	2602.00
2 1/2	AVA2510ZXNXM	208-230-60-1	35.0	24.7	7/8 S	3/8 S	3592	5751	6822	7887	8946	9999	12088		2458.00
	AVA2510ZXTXM	208-230-60-3	20.0	13.7	7/8 S	3/8 S	3592	5751	6822	7887	8946	9999	12088		2624.00
3	AVA2512ZXNXM	208-230-60-1	35.0	22.8	7/8 S	3/8 S	-	6531	7794	9102	10454	11851	14778	17884	3394.00
	AVA2512ZXTXM	208-230-60-3	20.0	14.8	7/8 S	3/8 S	-	6531	7794	9102	10454	11851	14778	17884	3420.00
3 1/2	AVA2515ZXNXM	208-230-60-1	45.0	29.0	7/8 S	3/8 S	5131	7791	9291	10905	12633	14475	18500	22980	3666.00
	AVA2515ZXTXM	208-230-60-3	25.0	16.6	7/8 S	3/8 S	5131	7791	9291	10905	12633	14475	18500	22980	3700.00



R134a

Low Temperature Air Cooled Units

HP	Model	Volts/Phase	Max Fuse Size	Circuit Amp	Connection		Capacity (BTUH At 90°F Ambient)								List
					Suction	Liquid	-30	-25	-20	-15	-10	-5	0	10	
1/5	AEA1360YXAXA	115-60-1	15.0	3.0	3/8 F	3/8 F	285	335	390	445	505	565	625	750	602.00
1/4	AEA2410YXAXC	115-60-1	15.0	7.5	3/8 F	1/4 F	520	640	770	915	1070	1230	1410	1770	816.00
1/3	AEA2413YXAXC	115-60-1	15.0	7.8	3/8 F	3/8 F	645	780	930	1100	1285	1480	1680	2100	936.00
1/2	AJA2422YXAXC	115-60-1	15.0	9.6	1/2 RF	1/4 F	800	1120	1460	1800	2140	2490	2860	3630	1204.00

Grey Base Product Range:

1/6 to 1/3 HP

Standard Features:

- Compact Design (19L x 8.25W x 10.25)
- Condensate Evaporative Base
- Fan Guard

Optional Features:

- Power Cord
- Receiver Tank
- Enlarged Receiver Tank
- Suction and Liquid Valves



R-134a HIGH TEMP

HP	Model		List
1/6	AEA3414YXAGK		552.00
1/5+	AEA3425YXAGK		594.00
1/4	AEA4430YXAGB		608.00
1/3	AEA4440YXAGB		642.00

R-404a LOW TEMP

HP	Model		List
1/3	AEA2411ZXAGB		730.00

R-22 COMMERCIAL TEMP

HP	Model	Basic		List
1/4	AEA9415EXAGB	2x441		700.00
1/3	AEA9422EXAGB	2x341		712.00

Notes





British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



Semi-hermetic

1-stage

2-stage

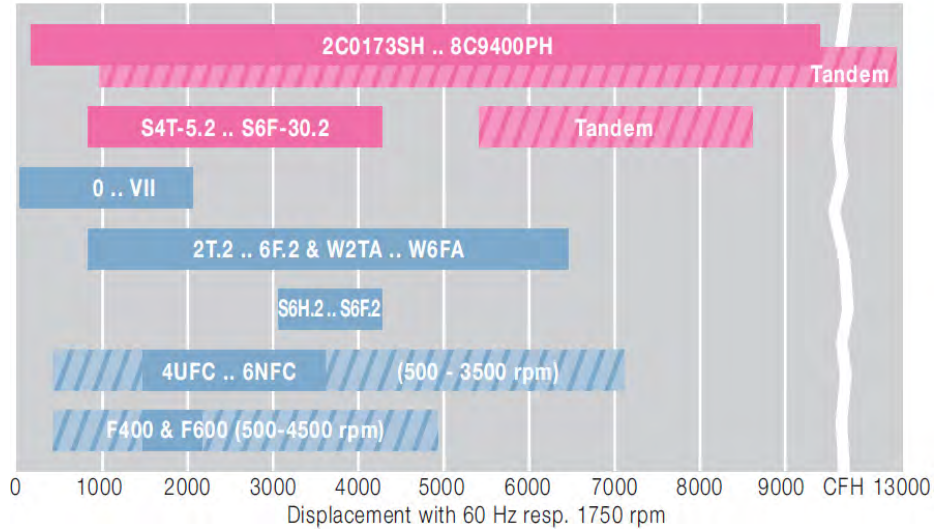
Open Drive

Low speed

.2 Generation

2-stage

Transport



Semi-hermetic

Screws

Open Drive

Screws

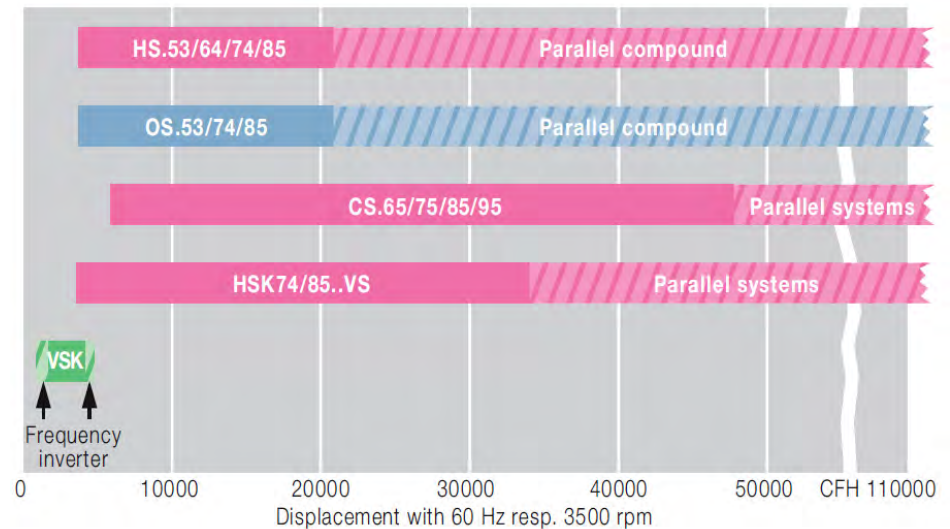
Semi-hermetic

Compact Screws

Semi-hermetic
Inverter Screws

Hermetic

Compact Screw



Standard
Vertical Scroll

R410A

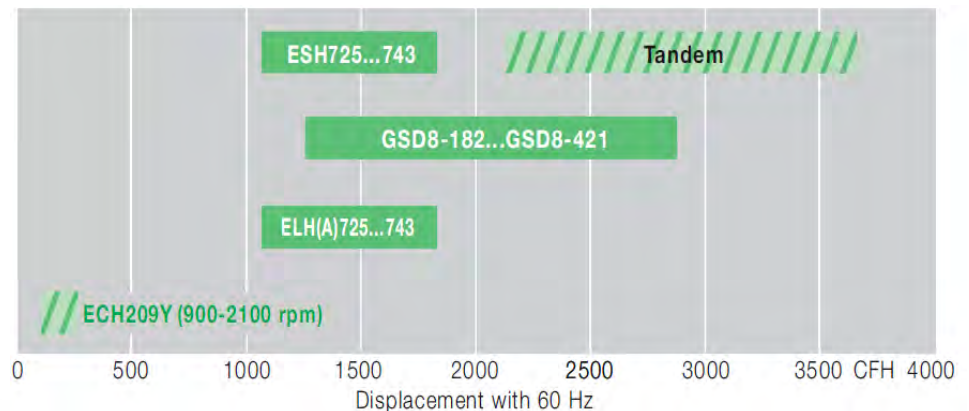
Scroll

Horizontal

Scroll

Horizontal

Aluminium Scroll



Reciprocating Compressors



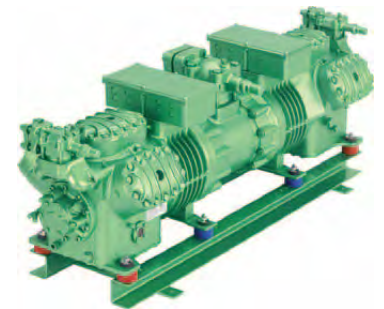
Semi-hermetic design

BITZER owes a considerable portion of its success to its well-known OCTAGON®series and ".2 Generation" reciprocating compressors. These compressors are particularly efficient, sturdy, reliable, low-vibration and silent and can thus be put to many uses in heat pump, air conditioning and refrigeration applications, extending from medium temperature to low temperature applications requiring small and medium capacities. In addition, the modern design meets the specific requirements for all modern refrigerants.



Tandem compressors

The tandem concept is the simplest way of connecting OCTAGON®series respectively single or two-stage ".2 Generation" compressors in parallel. The compressors are mounted via the joint suction gas chamber at the motor sides. Efficient capacity control is achieved by switching one of the compressors or by blocking cylinders (possible with 4-cylinder compressors).



2-stage design

The 2-stage ".2 Generation" compressors have not only proven their worth for the extreme thermal loads of R22 low temperature applications, but are to this day demonstrating their versatility and reliability in climatic chambers, in vacuum drying and other applications. This technology efficiently and reliably covers application ranges with evaporation temperatures as low as -70°C.



Open drive design

The ".2 Generation" open drive compressors are frequently used to meet special requirements, for instance in marine applications, in explosion-proof design and/or systems with NH3. They are equipped with a particularly reliable shaft seal and can be operated either with directly flanged-on motor or by means of V-belts. The low speed compressors 0..VII complete the open compressor series to smaller capacities.



Compressors for transport applications

BITZER reciprocating compressors perform their tasks in a variety of transport applications. These silent aluminum lightweights in open drive design are employed in bus air conditioning ranging from small minibuses to double-decker buses or in transport refrigeration systems. Frequency-controlled semi-hermetic aluminum compressors are out at sea cooling modern containers while OCTAGON®compressors used in the air conditioning of passenger trains, suburban trains and locomotive driver's cabs have already traveled millions of miles.



British Columbia

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Thunderbay

Semi-hermetic design (HSK/HSN)

For more than 25 years, BITZER has been producing small and medium capacity semi-hermetic screw compressors. The high power density and the external oil separator concept make it possible to realize simple paralleling ranging from larger commercial applications to industrial plants. The result is a high degree of reliability and efficiency, even in the plant's partial load range.



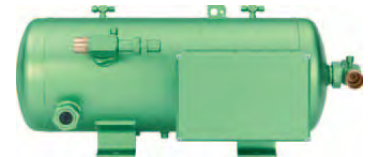
Semi-hermetic compact screws (CSH and CSW)

Compact screws are equipped with integrated oil separator and four-step or continuously variable slide capacity control. Thanks to this feature, the compressor is easy to integrate in short circuits, such as water or brine chillers. The economizer is integrated in the slide control and can thus be operated effectively both during full and partial load.



Hermetic design (VSK)

The hermetic VSK compressors are tailored to the special requirements of railway air conditioning. As particular advantage, these compressors offer a low installation height they owe to their horizontal design and a large speed control range resulting from a frequency inverter drive.



Open drive design (OSK/OSN)

The open drive screw compressors were developed for use with coupling and coupling housing to directly flange on electric motors. In combination with the particularly reliable shaft seal, assembling an open drive compressor is conceivably easy. A special version of the OS series is also available for use with NH3 or in explosion proof zones.



Accessories for screw compressors

BITZER offers an extensive range of accessories for use with screw compressors. For individual applications, a selection can be made from differently sized primary and secondary oil separators and water- or air-cooled oil coolers. The pressure vessels comply with current pressure vessel directives.



Scroll Compressors



Hermetic design (ESH/GSD/ELH/ELA)

Predominantly in the field of air conditioning where smaller capacities are needed, scroll compressors complement the related rotative screw compressor technique. Their outstanding feature is the patented suction gas cooling which serves to achieve a thermal equilibrium between orbiting and fixed spiral. In addition, the product range includes tandem compressors for applications in A/C systems and heat pumps, as well as the ELH series for transport air conditioning.



Semi-hermetic aluminium scroll (ECH)

BIZTER offers a new generation of aluminium semi-hermetic scroll compressors with EC motor technology leading to unmatched energy efficiency and quietness in operation. Due to its compact and light design, its stepless capacity control and frequency control which operates independently from the vehicle engine drive, this compressor is well suitable for air conditioning applications in busses and for driver's cab cooling in industrial and farm applications, as well as for recreation vehicle air conditioning.



Pressure Vessels

Shell and tube condensers

High-performance finned tubes are at the heart of this condenser series. At very compact dimensions, they facilitate the efficient condensation of common H(C)FC refrigerants. The condensers are available both in standard design and as sea water version. What's more, condensers with second refrigerant outlet can also be used as desuperheaters.



Liquid receivers

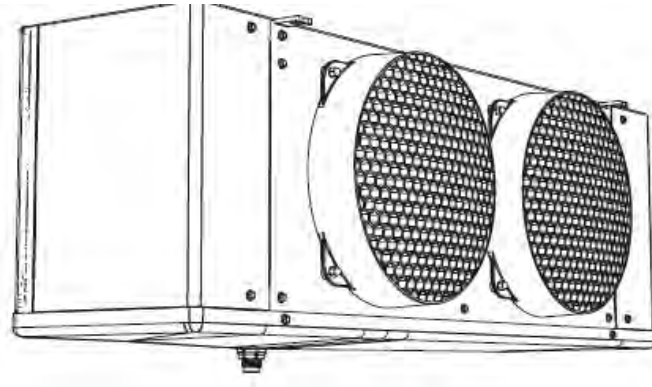
More than 18 volume stages offer a wide choice of receivers, each of them available in horizontal or vertical design, suitable for a great variety of applications. By covering all standard refrigerants, as well as R410A, NH3, CO2, and by providing versions with extra large connections, for instance, the BITZER range of receivers attracts by its great diversity.

Apart from approval according to current standards, comprehensive accessories such as visual and electronic minimum and maximum level control, continuous level control or mounting rails for compressor installation are available.





Low Profile Unit Coolers



Nomenclature

KLP 3 15 V E - S2 B

Model

Keeprite Low Profile Unit Cooler

Number of Fans

Nominal Capacity

x 1000 @ 10 F TD, Btu/H, R404A

Application Range

- M = Medium to High Temp 6 FPI (10 F to 45 F Evap Temp
- L = Low Temp 6 FPI (-40 F to 0 F Evap Temp)
- V = Low Temp 4 FPI (- 40 F to 0 F Evap Temp)
- W = Fluid Air Cooler (with water or glycol)

B = 2nd Generation

Voltage

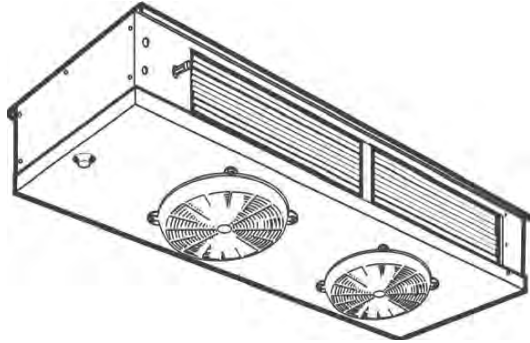
- S1 = 115/1/60 (air def and hot gas only
- S2 = 208-230/1/60 S6 = 200-220/1/50
- S4 = 460/1/60 S9 = 380-400/1/50
- T3 = 208-230/3/60 T7 = 200-220/3/50

Defrost *

- A = Air E = Electric
- T = 3 Pipe Hot Gas w/Elect Heater Pan or Warm Fluid w/Elect Heater Pan for Fluid Coolers
- H = 3 Pipe Hot gas w/Hot Gas Loop Pan(optional)
- G = Reverse Cyclew/Elect Heater Pan
- R = Reverse Cycle w/Hot Gas Loop Pan(optional)

*** T,H,G,R avail on 2 to 6 fan models**

The KLP Low Profile Unit Cooler line offers a compact flush to ceiling design featuring internally enhanced technology. Storage space is optimized by a compact, slim profile, which provides uniform air distribution through the coil for maximum heat transfer performance. Front Access, Standard PSC motors



KTL-Line Two-Way Unit Coolers Air Defrost

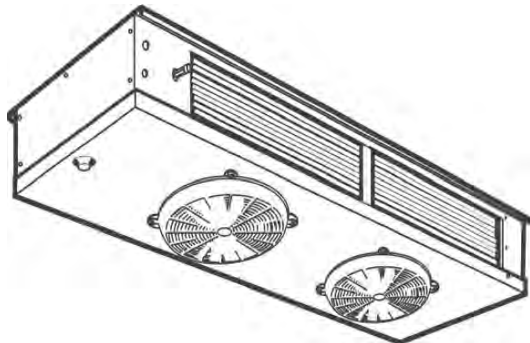
- HMR Coolers, Small Walk-ins, Meat Prep Coolers
- Minimizes Product Dehydration
- Medium Temperature
- 10-45 F and above (Room Temperature)
- 950 to 11500 Btu/Hr @ 20 F

**R134a, R22, R404A, R507
115-1-60**

Medium Temperature Models

MODEL KTL	BTUH 20°F SST 10 TD	CFM	MOTOR DATA			DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 115 v
			QTY	115/1/60		HEIGHT	DEPTH	WIDTH	TXV CONN.	SUCTION (OD)		
				FLA	MCA							
KTL010MA	950	130	1	1.2	1.5	4 1/2	14 1/8	18 7/8	1/2 FL	3/8	11.6	404.00
KTL015MA	1450	180	1	1.2	1.5	4 1/2	14 1/8	18 7/8	1/2 FL	3/8	12.6	426.00
KTL020MA	2000	237	1	1.2	1.5	5 1/2	14 1/8	18 7/8	1/2 FL	3/8	13.7	496.00
KTL025MA	2500	270	1	1.2	1.5	5 1/2	14 1/8	18 7/8	1/2 FL	3/8	14.7	608.00
KTL032MA	3200	440	1	1.2	1.5	5 1/2	19 1/8	21 7/8	1/2 FL	3/8	18.9	704.00
KTL038MA	3800	440	1	1.2	1.5	5 1/2	19 1/8	21 7/8	1/2 FL	3/8	20	788.00
KTL060MA	6000	928	2	2.4	2.7	7 5/8	42 3/4	23 3/4	1/2 FL	1/2	37.8	1000.00
KTL077MA	7700	807	2	2.4	2.7	7 5/8	42 3/4	23 3/4	1/2 FL	5/8	39.9	1218.00
KTL115MA	11500	1242	3	3.6	3.9	7 5/8	59 1/2	23 3/4	1/2 FL	5/8	59.9	1522.00

KTL-Line Two-Way Unit Coolers Electric Defrost



- HMR Coolers, Small Walk-ins, Meat Prep Coolers
- Low Temperature
- -20 - 0 F and above (Room Temperature)
- 850 to 9900 Btu/Hr @ -20 F TD
- Factory installed defrost termination and fan delay thermostat

**R134a, R22, R404A, R507
115-1-60, 208-230-1-60**

Low Temperature Models

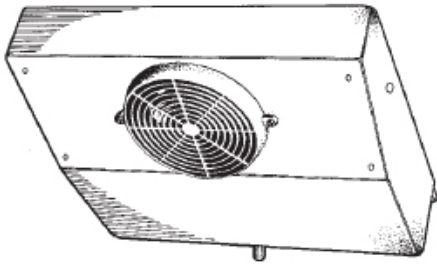
MODEL KTL	BTUH -20°F SST 10 TD	CFM	MOTOR DATA				HEATER DATA				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price		
			QTY	115/1/60		208-230/1/60		Total Watts	115/1/60		208-230/1/60		HEIGHT	DEPTH	WIDTH			TXV CONN.	SUCTION (OD)
				FLA	MCA	FLA	MCA		AMPS	MCA	AMPS	MCA							
KTL009LE	850	130	1	1.2	1.5	-	-	206	1.8	2.2	-	-	4 1/2	14 1/8	18 7/8	1/2 FL	3/8	11.6	578.00
KTL013LE	1250	180	1	1.2	1.5	-	-	530	4.6	5.8	-	-	4 1/2	14 1/8	18 7/8	1/2 FL	3/8	12.6	618.00
KTL017LE	1700	237	1	1.2	1.5	-	-	530	4.6	5.8	-	-	5 1/2	14 1/8	18 7/8	1/2 FL	3/8	13.7	728.00
KTL021LE	2100	270	1	1.2	1.5	-	-	530	4.6	5.8	-	-	5 1/2	14 1/8	18 7/8	1/2 FL	3/8	14.7	894.00
KTL028LE	2800	440	1	1.2	1.5	-	-	750	6.5	8.2	-	-	5 1/2	19 1/8	21 7/8	1/2 FL	1/2	18.9	1038.00
KTL033LE	3300	440	1	-	-	0.7	0.9	750	-	-	3.3	4.1	5 1/2	19 1/8	21 7/8	1/2 FL	1/2	20	1144.00
KTL052LE	5200	928	2	-	-	1.4	1.6	1100	-	-	4.8	6.0	7 5/8	42 3/4	23 3/4	1/2 FL	5/8	37.8	1538.00
KTL066LE	6600	807	2	-	-	1.4	1.6	1540	-	-	6.7	8.4	7 5/8	42 3/4	23 3/4	1/2 FL	5/8	39.9	1754.00
KTL099LE	9900	1242	3	-	-	2.1	2.3	2270	-	-	9.9	12.4	7 5/8	59 1/2	23 3/4	1/2 FL	7/8	59.9	2134.00



Evaporators

KMK / KLK

Tuck-Away Unit Coolers Air Defrost



R134a, R22, R404A, R507

Coated * 115-1-60HZ

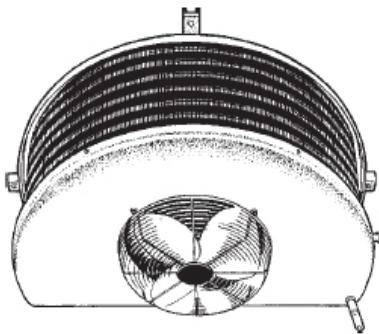
- Air and electric defrost models for -10 F and above space temperature.
- Air defrost models available from 1,000 to 5,100 Btu at 10 F TD
- Electric defrost models available from 900 to 1,600 at 10 F TD

Rear Air Discharge

MODEL KMK	BTUH 20°F SST @ 10°F T.D.	CFM	MOTOR DATA			DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 115v
			QTY.	115/1/60		HEIGHT	WIDTH	DEPTH	LIQUID (OD)	SUCTION (OD)		
				FLA	MCA							
KMK100	1000	160	1	.69	n/a	4 1/2	16 1/2	14 1/2	1/2 FL	3/8	13	310.00
KMK130	1300	190	2	1.38	n/a	4 1/2	19 1/4	14 1/2	1/2 FL	3/8	15	400.00
KMK170	1700	230	2	1.38	n/a	4 1/2	24	15 1/2	1/2 FL	1/2	18	468.00
KMK230	2300	340	3	2.07	n/a	4 1/2	31 1/2	15 1/2	1/2 FL	1/2	27	596.00
KMK300	3000	440	4	2.76	n/a	4 1/2	40	15 1/2	1/2 FL	1/2	32	738.00
KMK430	4300	480	3	1.53	n/a	5 3/4	46 1/4	16 1/2	1/2 FL	1/2	43	1000.00
KMK510	5100	530	3	1.53	n/a	5 3/4	55 1/4	16 1/2	1/2 FL	1/2	50	1268.00

Electric Defrost Models

MODEL KLK	BTUH -20°F ET @ 10°F T.D.	CFM	MOTOR DATA			DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 115v
			QTY.	115/1/60		HEIGHT	WIDTH	DEPTH	LIQUID (OD)	SUCTION (OD)		
				FLA	MCA							
KLK90	900	160	1	.69	n/a	4 1/2	16 1/2	14 1/2	1/2 FL	3/8	14	518.00
KLK120	1200	190	2	1.38	n/a	4 1/2	19 1/4	14 1/2	1/2 FL	3/8	16	622.00
KLK160	1600	230	2	1.38	n/a	4 1/2	24	15 1/2	1/2 FL	3/8	19	768.00



R-Line

Half Round Unit Coolers Air Defrost

- Walk-in Coolers, Meat Cutting Rooms, Fruit and Vegetable Storage, Flower Boxes, Beverage and Dairy Coolers.
- High Temperature
- 35 F and Above (Room Temperature)
- 3730 to 20400 Btu/Hr @ 10 F T.D.

R134a, R22, R404A, R507

115-1-60

Air Defrost Models

MODEL R	BTUH 20°F SST @ 10°F T.D.	CFM	MOTOR DATA			DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 115v
			QTY.	115/1/60		HEIGHT	WIDTH	DEPTH	LIQUID (OD)	SUCTION (OD)		
				FLA	MCA							
R375	3730	770	1	1.6	2	10 1/8	33 1/4	20 3/4	1/2	5/8	72	1328.00
R485	4880	770	1	1.6	2	10 1/8	33 1/4	20 3/4	1/2	5/8	76	1572.00
R595	6050	1280	1	1.6	2	13 3/8	39 1/4	23 3/4	1/2	5/8	98	1656.00
R775	7900	1300	1	2.1	2.63	13 3/8	39 1/4	23 3/4	1/2	7/8	104	1804.00
R905	8900	1380	1	2.1	2.63	13 5/8	42 1/4	25 1/4	1/2	7/8	108	2262.00
R1025	10200	2025	1	2.1	2.63	14 1/8	42 1/4	25 1/4	1/2	7/8	114	2842.00
R1305	12800	2000	1	2.1	2.63	14 1/8	42 1/4	25 1/4	1/2	7/8	124	2908.00
R2050	20400	4050	2	4.2	4.73	14 1/8	74	25 1/4	1/2	1 1/8	187	4018.00

British Columbia

Alberta

Saskatchewan

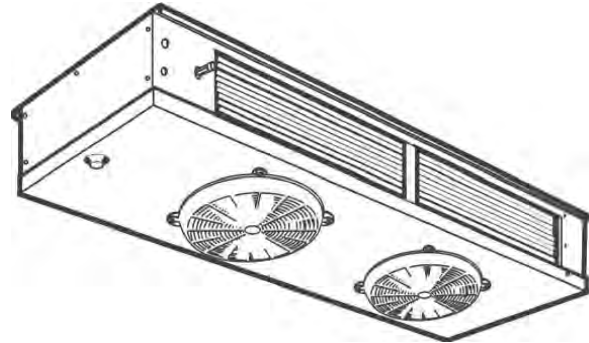
Manitoba

Thunderbay

KLV-Line

The KLV Hot Gas Defrost Low Velocity Unit Cooler features the same characteristics as the the KLV-AD and can be applied at lower temperature 28 F to 34 F rooms. Factory installed side outlet distributor and thermodisc type fan delay thermostats are standard. Check valves are supplied loose for TX valve by-pass.

R134a, R22, R404A, R507
115-1-60 & 100-1-50
208-230-1-60



KLV-Line Low Velocity Unit Coolers Hot Gas Defrost

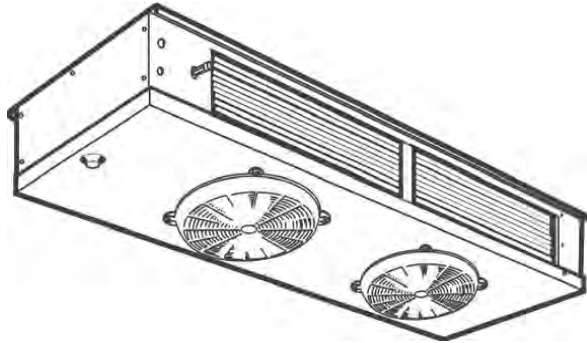
Hot Gas Defrost Models

MODEL KLV	BTUH 20° F SST @ 10° F T.D.	CFM	MOTOR DATA			DIMENSIONS In. (mm)			CONNECTIONS		APPROX. NET WEIGHT Lb.	List Price 115 v	List Price 208 v
			Q T Y	115v	208 v	HEIGHT	WIDTH	DEPTH	LIQUID (OD)	SUCTION (OD)			
				MCA	MCA								
KLV060	6000	850	1	6.3	3.2	8 11/16	66 7/8	28 1/8	1/2	5/8	90	1952.00	2076.00
KLV090	9000	1120	1	6.3	3.2	9 9/16	66 7/8	28 1/8	1/2	7/8	105	2229.00	2371.00
KLV120	12000	1500	2	6.3	3.2	12 7/16	66 7/8	28 1/8	1/2	7/8	139	2661.00	2831.00
KLV150	15000	2000	2	6.3	3.2	14 15/16	66 7/8	28 1/8	1/2	1 1/8	158	3189.00	3393.00
KLV180	18000	2530	3	8.9	4.5	14 15/16	92 7/8	28 1/8	1/2	1 1/8	220	3799.00	4042.00
KLV220	22000	2785	3	8.9	4.5	14 15/16	92 7/8	28 1/8	1/2	1 1/8	235	4182.00	4449.00
KLV270	27000	3400	3	8.9	4.5	17 7/16	92 7/8	28 1/8	7/8	1 1/8	255	4660.00	4958.00
KLV300	30000	4000	4	8.9	4.5	17 7/16	92 7/8	28 1/8	7/8	1 1/8	270	5236.00	5571.00
KLV340	34000	4370	4	11.1	5.5	17 7/16	112 7/8	28 1/8	7/8	1 3/8	280	6004.00	6387.00
KLV370	37000	4840	5	11.1	5.5	17 7/16	112 7/8	28 1/8	7/8	1 3/8	290	6580.00	7001.00

Evaporators



KLV-Line



Designed for 35 F rooms and higher and allows for positive low air movement and even temperatures throughout the space, while maintaining desired humidity conditions.
Available in sizes from 6,000 btuh to 37,000 btuh.
PSC Motors

R134a, R22, R404A, R507
115-1-60
208-230-1-60

KLV-Line Low Velocity Unit Coolers Air Defrost

Air Defrost Models

MODEL KLV	BTUH 20° F SST @ 10° F T.D.	CFM	ELECTRICAL DATA *			DIMENSIONS In.			CONNECTIONS		APPROX. NET WEIGHT Lb. (kg)	List Price 115 V
			QTY	115/1/60	208-230/1/60	HEIGHT IN.	WIDTH IN.	DEPTH IN.	LIQUID (OD)	SUCTION (OD)		
				MCA	MCA							
KLV060AD	6000	850	1	1.4	.6	8 11/16	66 7/8	28 1/8	1/2	5/8	90 (41)	1802.00
KLV090AD	9000	1120	1	1.4	.6	9 9/16	66 7/8	28 1/8	1/2	7/8	105 (48)	2058.00
KLV120AD	12000	1500	2	2.5	1.1	12 7/16	66 7/8	28 1/8	1/2	7/8	139 (59)	2453.00
KLV150AD	15000	2000	2	2.5	1.1	14 15/16	66 7/8	28 1/8	1/2	1 1/8	158 (68)	2939.00
KLV180AD	18000	2530	3	3.6	1.6	14 15/16	92 7/8	28 1/8	1/2	1 1/8	220 (100)	3502.00
KLV220AD	22000	2785	3	3.6	1.6	14 15/16	92 7/8	28 1/8	1/2	1 1/8	235 (107)	3742.00
KLV270AD	27000	3400	3	3.6	1.6	17 7/16	92 7/8	28 1/8	7/8	1 1/8	255 (116)	4297.00
KLV300AD	30000	4000	4	4.7	2.1	17 7/16	92 7/8	28 1/8	7/8	1 1/8	270 (123)	4827.00
KLV340AD	34000	4370	4	5.8	2.6	17 7/16	112 7/8	28 1/8	7/8	1 3/8	280 (127)	5534.00
KLV370AD	37000	4840	5	12.1	6.3	17 7/16	112 7/8	28 1/8	7/8	1 3/8	290 (132)	6064.00

The KLV-ED Electric defrost Low Velocity Unit Cooler features the same characteristics as the the KLV-AD and can be applied at lower temperature 28 F to 34 F rooms.

KLV-Line Low Velocity Unit Coolers Electric Defrost

Electric Defrost Models

MODEL KLV	BTUH 20° F SST @ 10° F T.D.	CFM	MOTOR DATA			HEATER DATA			DIMENSIONS In. (inch)			CONNECTIONS		APPROX. NET WEIGHT Lb. (kg)	List Price 208/1
			QTY	208-230/1/60		208-230/1/60			HEIGHT	WIDTH	DEPTH	LIQUID (OD)	SUCTION (OD)		
				FLA	MCA	WATTS	FLA	MCA							
KLV060ED	6000	850	1	0.5	0.6	1880	8.2	10.2	8 11/16	66 7/8	28 1/8	1/2	5/8	90 (41)	2141.00
KLV090ED	9000	1120	1	0.5	0.6	1880	8.2	10.2	9 9/16	66 7/8	28 1/8	1/2	7/8	105 (48)	2445.00
KLV120ED	12000	1500	2	1.0	1.1	3180	13.8	17.3	12 7/16	66 7/8	28 1/8	1/2	7/8	139 (59)	2918.00
KLV150ED	15000	2000	2	1.0	1.1	3180	13.8	17.3	14 15/16	66 7/8	28 1/8	1/2	1 1/8	158 (68)	3497.00
KLV180ED	18000	2530	3	1.5	1.6	4540	19.7	24.7	14 15/16	92 7/8	28 1/8	1/2	1 1/8	220 (100)	4167.00
KLV220ED	22000	2785	3	1.5	1.6	4540	19.7	24.7	14 15/16	92 7/8	28 1/8	1/2	1 1/8	235 (107)	4587.00
KLV270ED	27000	3400	3	1.5	1.6	4540	19.7	24.7	17 7/16	92 7/8	28 1/8	7/8	1 1/8	255 (116)	5111.00
KLV300ED	30000	4000	4	2.0	2.1	4540	19.7	24.7	17 7/16	92 7/8	28 1/8	7/8	1 1/8	270 (123)	5741.00
KLV340ED	34000	4370	4	2.0	2.1	5580	24.3	30.3	17 7/16	112 7/8	28 1/8	7/8	1 3/8	280 (127)	6585.00
KLV370ED	37000	4840	5	6	6.3	5580	24.3	30.3	17 7/16	112 7/8	28 1/8	7/8	1 3/8	290 (132)	7217.00

Evaporators



KLP-Line

Air Defrost Models KLP-Line Low Profile Unit Coolers Air Defrost

MODEL KLP	BTUH -20°F SST @10 TD	CFM	MOTOR DATA						DIMENSIONS in.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 115 v
			QTY	115/1/60		208-230/1/60		HEIGHT	WIDTH	DEPTH	LIQUID (OD)	SUCTION (OD)			
				FLA	MCA	FLA	MCA								
KLP104MA	4300	1010	1	1.0	1.3	.5	.6	15 7/8	30 1/4	15	1/2	5/8	45	622.00	
KLP106MA	5500	950	1	1.0	1.3	.5	.6	15 7/8	30 1/4	15	1/2	5/8	47	668.00	
KLP107MA	6800	900	1	1.0	1.3	.5	.6	15 7/8	30 1/4	15	1/2	5/8	49	780.00	
KLP209MA	8600	2020	2	2.0	2.3	1.0	1.1	15 7/8	46 1/4	15	1/2	7/8	70	986.00	
KLP211MA	11000	1910	2	2.0	2.3	1.0	1.1	15 7/8	46 1/4	15	1/2	7/8	74	1136.00	
KLP214MA	14000	1800	2	2.0	2.3	1.0	1.1	15 7/8	46 1/4	15	1/2	7/8	78	1424.00	
KLP317MA	17000	2860	3	3.0	3.3	1.5	1.6	15 7/8	62 1/4	15	1/2	7/8	101	1676.00	
KLP320MA	20000	2700	3	3.0	3.3	1.5	1.6	15 7/8	62 1/4	15	1/2	7/8	107	1964.00	
KLP423MA	23000	3810	4	4.0	4.3	2.0	2.1	15 7/8	78 1/4	15	1/2	1 1/8	117	2260.00	
KLP426MA	26000	3600	4	4.0	4.3	2.0	2.1	15 7/8	78 1/4	15	1/2	1 1/8	135	2538.00	
KLP532MA	32000	4500	5	5.0	5.3	2.5	2.6	15 7/8	94 1/4	15	1/2	1 3/8	163	2898.00	
KLP639MA	39000	5400	6	6.0	6.3	3.0	3.1	15 7/8	110 1/4	15	7/8	1 3/8	192	3378.00	

KLP-Line Low Profile Unit Coolers Electric Defrost

Electric Defrost Models

MODEL KLP	BTUH -20°F 10TD	CFM	MOTOR DATA						HEATER DATA				DIMENSIONS in.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/1
			QTY	208-230/1/60		208-230/1		208-230-3		Total Watts	High	Width	Depth	LIQUID (OD)	SUCTION (OD)				
				FLA	MCA	FLA	MCA	FLA	MCA										
KLP104LE	3800	1010	1	1.1	1.4	4.6	5.8	3.0	3.8	1060	15 7/8	30 1/4	15	1/2	5/8	49	972.00		
KLP105LE	4800	950	1	1.1	1.4	4.6	5.8	3.0	3.8	1060	15 7/8	30 1/4	15	1/2	5/8	51	1152.00		
KLP106LE	5800	900	1	1.1	1.4	4.6	5.8	3.0	3.8	1060	15 7/8	30 1/4	15	1/2	5/8	53	1188.00		
KLP207LE	7400	2020	2	2.2	2.5	8.2	10.3	5.3	6.7	1890	15 7/8	46 1/4	15	1/2	7/8	76	1424.00		
KLP209LE	9000	1910	2	2.2	2.5	8.2	10.3	5.3	6.7	1890	15 7/8	46 1/4	15	1/2	7/8	80	1552.00		
KLP211LE	11000	1800	2	2.2	2.5	8.2	10.3	5.3	6.7	1890	15 7/8	46 1/4	15	1/2	7/8	84	1858.00		
KLP314LE	14000	2860	3	3.3	3.6	11.9	14.8	7.7	10	2730	15 7/8	62 1/4	15	1/2	7/8	109	2266.00		
KLP317LE	17000	2700	3	3.3	3.6	11.9	14.8	7.7	10	2730	15 7/8	62 1/4	15	1/2	1 1/8	115	2676.00		
KLP419LE	19000	3810	4	4.4	4.7	15.5	19.3	10	12	3560	15 7/8	78 1/4	15	1/2	1 1/8	127	2994.00		
KLP422LE	22000	3600	4	4.4	4.7	15.5	19.3	10	12	3560	15 7/8	78 1/4	15	7/8	1 1/8	145	3478.00		
KLP527LE	27000	4500	5	5.5	5.8	19.1	23.9	12	15.1	4400	15 7/8	94 1/4	15	7/8	1 3/8	176	4094.00		
KLP631LE	31000	5400	6	6.6	6.9	22.7	28.4	15	18	5230	15 7/8	110 1/4	15	7/8	1 3/8	207	4554.00		

KLP-Line Low Profile Unit Coolers Hot Gas Defrost

Hot Gas Defrost Models

MODEL KLP	BTUH -20°F 10TD	CFM	MOTOR DATA						HEATER DATA				DIMENSIONS in.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 115 v	List Price 208/1
			QTY	115/1/60		208-230/1/60		Total Watts	High	Width	Depth	LIQUID (OD)	SUCTION (OD)							
				FLA	MCA	FLA	MCA													
KLP207L	7400	2020	2	2.2	2.5	1.8	2.2	410	15 7/8	46 1/4	15	1/2	7/8	70	1454.00	1557.00				
KLP209L	9000	1910	2	2.2	2.5	1.8	2.2	410	15 7/8	46 1/4	15	1/2	7/8	74	1642.00	1773.00				
KLP211L	11000	1800	2	2.2	2.5	1.8	2.2	410	15 7/8	46 1/4	15	1/2	7/8	78	1865.00	2015.00				
KLP314L	14000	2860	3	3.3	3.6	2.4	3.0	560	15 7/8	62 1/4	15	1/2	7/8	101	2293.00	2394.00				
KLP317L	17000	2700	3	3.3	3.6	2.4	3.0	560	15 7/8	62 1/4	15	1/2	1 1/8	107	2530.00	2732.00				
KLP419L	19000	3810	4	4.4	4.7	3.1	3.9	720	15 7/8	78 1/4	15	1/2	1 1/8	117	2856.00	3119.00				
KLP422L	22000	3600	4	4.4	4.7	3.1	3.9	720	15 7/8	78 1/4	15	7/8	1 1/8	135	3204.00	3459.00				
KLP527L	27000	4500	5	5.5	5.8	3.8	4.8	880	15 7/8	94 1/4	15	7/8	1 3/8	163	3792.00	4153.00				
KLP631L	31000	5400	6	6.6	6.9	4.0	5.0	1030	15 7/8	110 1/4	15	7/8	1 3/8	192	4259.00	4676.00				



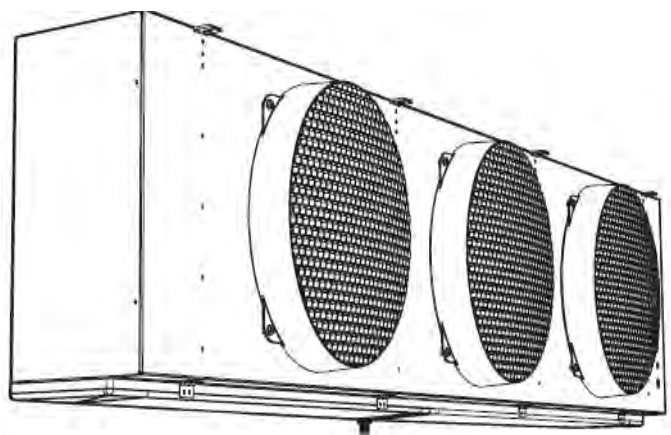
Evaporators



KMP-Line Medium Profile Unit Cooler

The KMP Medium Profile Unit Cooler line is engineered to provide superior performance and quality in applications that demand efficiency and reliability. Available in air, electric and hot gas defrost models for -30 F and above room temperatures, ranging from 16,000 to 88,000 btuh @ 10 F with R404a PSC Motors. Liquid line solenoid valve wire harness factory installed

R22, R404A, R507
 208-230-1-60 & 208-230-60-3
 460-3-60,
 575-3-60,



KMP-Line Air Defrost

Air Defrost Models Medium Temp

MODEL KMP	BTUH 25°F SST @ 10°F TD	CFM	MOTOR DATA								DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs. (kg)	List Price 208 v
			QTY	208-230/1/60		208-230/3/60		460/3/60		High	Width	Depth	LIQUID (OD)	SUCTION (OD)			
				FLA	MCA	FLA	MCA	FLA	MCA								
KMP118MA	18000	3430	1	1.7	2.1	0.9	1.1	0.7	0.9	26 5/8	50 1/4	20 3/4	5/8	7/8	154	2412.00	
KMP122MA	22000	3240	1	1.7	2.1	0.9	1.1	0.7	0.9	26 5/8	50 1/4	20 3/4	5/8	1 1/8	161	2782.00	
KMP228MA	28000	7260	2	3.4	3.8	1.8	2.0	1.4	1.6	26 5/8	84 1/4	20 3/4	5/8	1 1/8	224	3747.0	
KMP236MA	36000	6870	2	3.4	3.8	1.8	2.0	1.4	1.6	26 5/8	84 1/4	20 3/4	5/8	1 3/8	240	4933.00	
KMP245MA	45000	6480	2	3.4	3.8	1.8	2.0	1.4	1.6	26 5/8	84 1/4	20 3/4	7/8	1 3/8	254	5892.00	
KMP355MA	55000	10300	3	5.1	5.5	2.7	2.9	2.1	2.3	26 5/8	118 1/4	20 3/4	7/8	1 5/8	326	7045.00	
KMP368MA	68000	9720	3	5.1	5.5	2.7	2.9	2.1	2.3	26 5/8	118 1/4	20 3/4	7/8	1 5/8	349	7866.00	
KMP480MA	80000	13000	4	6.8	7.2	3.6	3.8	2.8	3.0	26 5/8	136 1/4	20 3/4	7/8	1 5/8	414	8387.00	
KMP488MA	88000	12200	4	6.8	7.2	3.6	3.8	2.8	3.0	26 5/8	136 1/4	20 3/4	7/8	1 5/8	433	8725.00	

KMP-Line Electric Defrost

Electric Defrost Models Low Temp

MODEL KMP	BTUH 20°F SST @ 10°F TD	CFM	MOTOR DATA								DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs. (kg)	List Price 208 v
			QTY	208-230/1/60		208-230/3/60		460/3/60		High	Width	Depth	LIQUID (OD)	SUCTION (OD)			
				FLA	MCA	FLA	MCA	FLA	MCA								
KMP116LE	16000	3430	1	1.7	2.1	0.9	1.1	0.7	0.9	26 5/8	50 1/4	20 3/4	5/8	1 1/8	164	2963.00	
KMP119LE	19000	3240	1	1.7	2.1	0.9	1.1	0.7	0.9	26 5/8	50 1/4	20 3/4	5/8	1 1/8	171	3560.00	
KMP225LE	25000	7260	2	3.4	3.8	1.8	2.0	1.4	1.6	26 5/8	84 1/4	20 3/4	5/8	1 3/8	243	4696.00	
KMP232LE	32000	6870	2	3.4	3.8	1.8	2.0	1.4	1.6	26 5/8	84 1/4	20 3/4	5/8	1 3/8	257	5284.00	
KMP240LE	40000	6480	2	3.4	3.8	1.8	2.0	1.4	1.6	26 5/8	84 1/4	20 3/4	7/8	1 5/8	273	6506.00	
KMP348LE	48000	10300	3	5.1	5.5	2.7	2.9	2.1	2.3	26 5/8	118 1/4	20 3/4	7/8	1 5/8	352	7373.00	
KMP356LE	58000	9720	3	5.1	5.5	2.7	2.9	2.1	2.3	26 5/8	118 1/4	20 3/4	11/8	1 5/8	377	8171.00	
KMP471LE	71000	13000	4	6.8	7.2	3.6	3.8	2.8	3.0	26 5/8	136 1/4	20 3/4	11/8	2 1/8	443	10420.00	



KMP-Line

KMP-Line Medium Profile Unit Cooler Air Defrost

Electric Defrost Models - Defrost Heater Data

MODEL KMP	Total Watts	208-230/1/60						460/3/60						575/3/60	
		208-230/1/60		208-230/3/60		460/1/60		460/3/60		575/1/60		575/3/60			
		FLA	MCA	FLA	MCA	FLA	MCA	FLA	MCA	FLA	MCA	FLA	MCA		
KMP116LE	3330	14.5	18	9.9	12	7.2	9.0	5.0	6.2	5.8	7.2	4.0	5.0		
KMP119LE	3330	14.5	18	9.9	12	7.2	9.0	5.0	6.2	5.8	7.2	4.0	5.0		
KMP225LE	6190	26.9	34	18.3	23	13.5	17	9.2	11	10.8	13	7.3	9.2		
KMP232LE	6190	26.9	34	18.3	23	13.5	17	9.2	11	10.8	13	7.3	9.2		
KMP240LE	6190	26.9	34	18.3	23	13.5	17	9.2	11	10.8	13	7.3	9.2		
KMP348LE	9040	39.3	49	26.7	33	19.7	25	13.4	17	15.7	20	10.7	13		
KMP356LE	9040	39.3	49	26.7	33	19.7	25	13.4	17	15.7	20	10.7	13		
KMP471LE	10600	46.1	58	31.2	39	23.0	29	15.6	19	18.4	23	12.5	16		

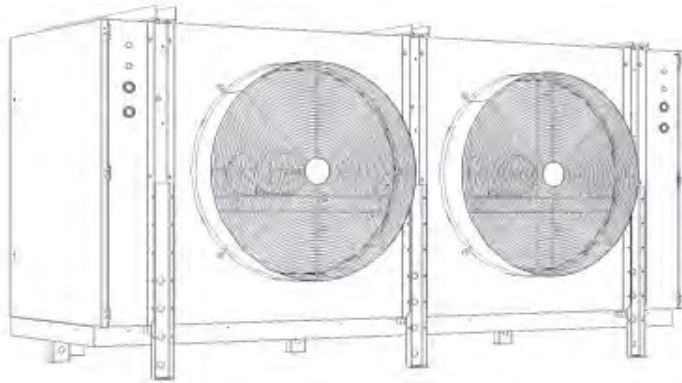
Hot Gas Defrost Models - Low Temp

MODEL KMP	Btuh -20F SSt @ 10Ftd	Motor Data (1/3 Hp)								Drain Pan Heater Data						List Price 208 /1
		CFM	208-230/1/60		460-1-60		575-1-60		Total Watts	208-230/1/60		460-1-60		575-1-60		
			FLA	MCA	FLA	MCA	FLA	MCA		FLA	MCA	FLA	MCA	FLA	MCA	
KMP116L	16000	3430	1.7	2.1	0.9	1.1	0.7	0.9	534	2.3	2.9	1.2	1.5	0.9	1.2	2772.00
KMP119L	19000	3240	1.7	2.1	0.9	1.1	0.7	0.9	534	2.3	2.9	1.2	1.5	0.9	1.2	3358.00
KMP225L	25000	7260	3.4	3.8	1.8	2.0	1.4	1.6	887	3.9	4.8	1.9	2.4	1.5	1.9	4431.00
KMP232L	32000	6870	3.4	3.8	1.8	2.0	1.4	1.6	887	3.9	4.8	1.9	2.4	1.5	1.9	4984.00
KMP240L	40000	6480	3.4	3.8	1.8	2.0	1.4	1.6	887	3.9	4.8	1.9	2.4	1.5	1.9	6139.00
KMP348L	48000	10300	5.1	5.5	2.7	2.9	2.1	2.3	1240	5.4	6.7	2.7	3.4	2.2	2.7	6956.00
KMP356L	58000	9720	5.1	5.5	2.7	2.9	2.1	2.3	1240	5.4	6.7	2.7	3.4	2.2	2.7	7790.00
KMP471L	71000	13000	6.8	7.2	3.6	3.8	2.8	3.0	1430	6.2	7.8	3.1	3.9	2.5	3.1	9976.00

Hot Gas Defrost

MODEL KMP	DIMENSIONS In.			CONNECTIONS		Distributor Side Port	APPROX. SHIP WEIGHT Lbs.
	High	Width	Depth	LIQUID (OD)	SUCTION (OD)		
KMP116L	26 5/8	50 1/4	20 3/4	5/8	7/8	5/8	157
KMP119L	26 5/8	50 1/4	20 3/4	5/8	1 1/8	5/8	164
KMP225L	26 5/8	84 1/4	20 3/4	5/8	1 1/8	5/8	230
KMP232L	26 5/8	84 1/4	20 3/4	5/8	1 3/8	7/8	245
KMP240L	26 5/8	84 1/4	20 3/4	7/8	1 3/8	7/8	261
KMP348L	26 5/8	118 1/4	20 3/4	7/8	1 5/8	1 1/8	335
KMP356L	26 5/8	118 1/4	20 3/4	7/8	1 5/8	1 1/8	360
KMP471L	26 5/8	136 1/4	20 3/4	7/8	1 5/8	1 1/8	423





KHP-Line
208-230/3/60
460/3/60
575/3/60

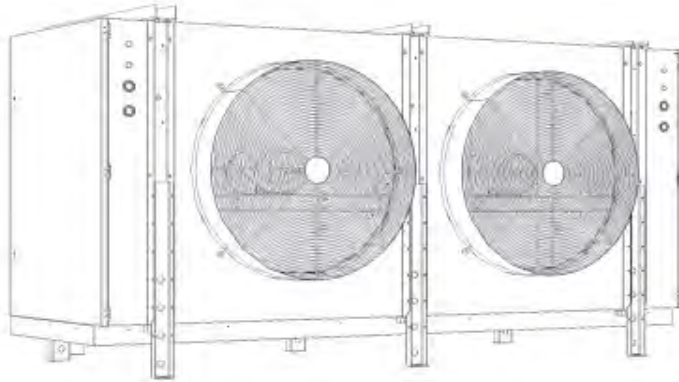
KHP-Line High Profile Unit Cooler Air Defrost

Ideally suited for large warehouse/industrial type applications. Designed to replace the JBC and JBF product lines, the new KHP offers improvements in flexibility and design. Standard features include improved air flow, heavy-gauge galvanized steel rail motor mounts and a stackable design.

Air Defrost Models - 7 F.P.I High / Medium Temperature

MODEL JBC	BTUH 25°F SST @ 10°F TD	CFM	Q T Y	MOTOR DATA (1 HP Each)						DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/3v
				208-230/3/60		460-3-60		575-3-60		HEIGHT	WIDTH	DEPTH	LIQUID (OD)	SUCTION (OD)		
				FLA	MCA	FLA	MCA	FLA	MCA							
KHP073HA	73000	16400	2	9.6	10.8	4.8	5.4	4.8	5.4	53	99	40.5	1 1/8	1 5/8	770	8090.00
KHP086HA	86000	15200	2	9.6	10.8	4.8	5.4	4.8	5.4	53	99	40.5	1 3/8	1 5/8	742	8942.00
KHP113HA	113000	15600	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	40.5	1 3/8	2 1/8	837	11443.00
KHP130HA	130000	22800	3	14.4	15.6	7.2	7.8	7.2	7.8	53	139	40.5	1 3/8	2 1/8	1071	14012.00
KHP154HA	154000	24700	3	16.8	20.1	8.4	9.1	6.9	7.5	53	139	40.5	1 3/8	2 1/8	1145	15046.00
KHP170HA	170000	23500	3	16.8	20.1	8.4	9.1	6.9	7.5	53	139	40.5	1 3/8	2 1/8	1208	16339.00
KHP189HA	189000	25400	3+	16.8	20.1	8.4	9.1	6.9	7.5	56	145	40.5	1 3/8	2 5/8	1293	18138.00
KHP233HA	233000	35600	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	40.5	1 3/8	2 5/8	1590	20902.00
KHP252HA	252000	33800	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	40.5	1 3/8	2 5/8	1696	22221.00
KHP278HA	278000	31000	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	40.5	1 5/8	2 5/8	1919	23801.00

KHP-Line



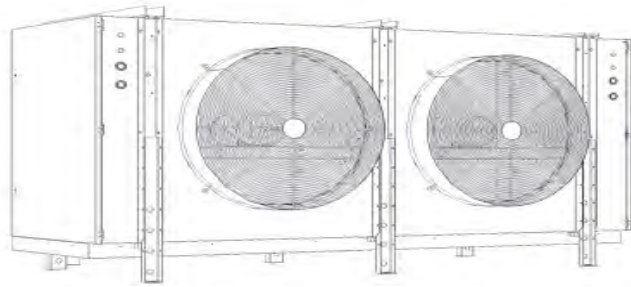
Electric Defrost-Standard Models-6 F.P.I. Low Temp

MODEL KHP	BTUH -20°F SST @ 10°F TD	CFM	MOTOR DATA								DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/3
			QTY	208-230/3/60		460-3-60		575-3-60		HEIGHT	WIDTH	DEPTH	LIQUID (OD)	SUCTION (OD)			
				FLA	MCA	FLA	MCA	FLA	MCA								
KHP065LE	64300	18900	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	40.5	1 3/8	2 1/8	689	9169.00	
KHP078LE	78200	17800	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	40.5	1 3/8	2 1/8	731	12155.00	
KHP089LE	89000	16900	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	40.5	1 3/8	2 1/8	744	13683.00	
KHP094LE	94100	15930	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	40.5	1 3/8	2 1/8	816	14193.00	
KHP118LE	118000	26730	3	16.8	20.1	8.4	9.1	6.9	7.5	53	139	40.5	1 3/8	2 5/8	1049	16544.00	
KHP134LE	134000	25310	3	16.8	20.1	8.4	9.1	6.9	7.5	53	139	40.5	1 5/8	2 5/8	1113	17946.00	
KHP143LE	143000	23890	3	16.8	20.1	8.4	9.1	6.9	7.5	53	139	40.5	1 5/8	2 5/8	1177	19147.00	
KHP161LE	161000	26080	3+	16.8	20.1	8.4	9.1	6.9	7.5	56	145	40.5	1 5/8	2 5/8	1272	23321.00	
KHP175LE	175000	38100	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	40.5	1 5/8	2 5/8	1452	24919.00	
KHP198LE	198000	36290	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	40.5	1 5/8	3 1/8	1558	27462.00	
KHP216LE	216000	34770	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	40.5	1 5/8	3 1/8	1664	29468.00	
KHP228LE	228000	32000	4	NA	NA	11.2	11.9	9.2	9.8	57	187	40.5	1 5/8	3 1/8	1876	30736.00	

Defrost Heater Data- Standard Models

MODEL KHP	Watts	208-230/3/60						460/3/60				575/3/60			
		Circuit #1		Circuit #2		Circuit #3		Circuit #1		Circuit #2		Circuit #1		Circuit #2	
		FLA	MCA	FLA	MCA	FLA	MCA	FLA	MCA	FLA	MCA	FLA	MCA	FLA	MCA
KHP065LE	17150	46.1	57.7	-	-	-	-	23.2	29.0	-	-	18.6	23.2	-	-
KHP078LE	19600	27.7	34.6	27.7	34.6	-	-	27.7	34.6	-	-	22.1	27.6	-	-
KHP089LE	24500	32.4	40.5	32.4	40.5	-	-	32.4	40.5	-	-	25.9	32.4	-	-
KHP094LE	24500	32.4	40.5	32.4	40.5	-	-	32.4	40.5	-	-	25.9	32.4	-	-
KHP118LE	28000	39.5	49.4	39.5	49.4	-	-	39.5	49.4	-	-	31.6	39.5	-	-
KHP134LE	35000	46.3	57.9	46.3	57.9	-	-	46.3	57.9	-	-	37.0	46.3	-	-
KHP143LE	35000	46.3	57.9	46.3	57.9	-	-	46.3	57.9	-	-	37.0	46.3	-	-
KHP161LE	36000	47.6	59.5	47.6	59.5	-	-	47.6	59.5	-	-	38.1	47.6	-	-
KHP175LE	37600	35.4	44.3	35.4	44.3	35.4	44.3	27.0	33.8	27.0	33.8	42.5	53.1	-	-
KHP198LE	47000	44.5	55.6	44.5	55.6	35.4	44.3	35.4	44.3	35.4	44.3	28.3	35.4	28.3	35.4
KHP216LE	47000	44.5	55.6	44.5	55.6	35.4	44.3	35.4	44.3	35.4	44.3	28.3	35.4	28.3	35.4
KHP228LE	56400	NA	NA	NA	NA	NA	NA	35.4	44.3	35.4	44.3	28.3	35.4	28.3	35.4

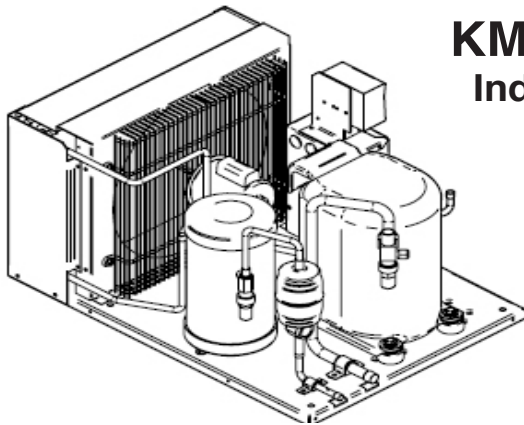
Unit Coolers



KHP-Line Low Temp

Hot Gas Defrost-Standard Models-6 F.P.I.

MODEL KHP	BTUH -20°F SST @ 10°F TD	CFM	MOTOR DATA						DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/3	
			QTY	208-230/3/60		460-3-60		575-3-60		HEIGHT	WIDTH	DEPTH	LIQUID (OD)			SUCTION (OD)
				FLA	MCA	FLA	MCA	FLA	MCA							
KHP065LTG	64300	18900	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	36	1 3/8	2 1/8	689	8971.00
KHP078LTG	78200	17800	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	36	1 3/8	2 1/8	731	11568.00
KHP089LTG	89000	16900	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	36	1 3/8	2 1/8	744	13398.00
KHP094LTG	94100	15930	2	11.2	12.6	5.6	6.3	4.6	5.2	53	99	36	1 3/8	2 1/8	816	14038.00
KHP118LTG	118000	26730	3	16.8	20.1	8.4	9.1	6.9	7.5	53	139	36	1 3/8	2 5/8	1049	15715.00
KHP134LTG	134000	25310	3	16.8	20.1	8.4	9.1	6.9	7.5	53	139	36	1 5/8	2 5/8	1113	17702.00
KHP143LTG	143000	23890	3	16.8	20.1	8.4	9.1	6.9	7.5	53	139	36	1 5/8	2 5/8	1177	18735.00
KHP161LTG	161000	26080	3	16.8	20.1	8.4	9.1	6.9	7.5	56	145	36	1 5/8	2 5/8	1272	21710.00
KHP175LTG	175000	38100	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	36	1 5/8	2 5/8	1452	23499.00
KHP198LTG	198000	36290	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	36	1 5/8	3 1/8	1558	26299.00
KHP216LTG	216000	34770	4	22.4	25.1	11.2	11.9	9.2	9.8	57	187	36	1 5/8	3 1/8	1664	28361.00
KHP228LTG	228000	32000	4	NA	NA	11.2	11.9	9.2	9.8	57	187	36	1 5/8	3 1/8	1876	30020.00



KMHA-LINE Indoor / Condensing Units

R22, R404A, R507, 115/1/60,
208-230-1-60 , 208-230-3-60

Every aspect is engineered to ensure reliability and economy of operation together with ease of installation.
Space saving compact design
High efficiency PSC motors
Adjustable low(1hp&below)or High/low (above 1hp)pressure control
Available from 1/2 to 5 HP.

R22 Copeland KMHA-LINE High / Medium Temperature

MODEL	COMP	BTUH@ 95F 25°F SST	MIN CIRCUIT AMPACITY			DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs	List Price 115/1	List Price 208/1 ph	List Price 208/3ph
			115/1/60	208-230/1	208-230-3	High	Wide	Deep	LIQUID	SUCTION				
KMHA005H2	ARE59C3	4440	10.2	5.0	-	13 3/8	17 5/8	24 1/4	3/8	1/2	75	1786.00	1702.00	-
KMHA008H2	RS47C2	5910	17.2	8.5	-	13 3/8	17 5/8	24 1/4	3/8	5/8	97	1882.00	1800.00	-
KMHA011H2	RS70C1	8500	20.0	8.4	5.8	13 3/8	17 5/8	24 1/4	3/8	5/8	120	2082.00	2000.00	2070.00
KMHA015H2	CR18KQ	11500	-	10.6	7.3	15 7/8	19 5/8	24 1/4	3/8	5/8	137	-	2118.00	2186.00
KMHA020H2	CR24KQ	15800	-	16.3	9.5	19 3/8	32 7/8	24 1/4	3/8	5/8	199	-	2364.00	2484.00
KMHA025H2	CR32KQ	21400	-	20.2	12.2	19 3/8	32 7/8	24 1/4	3/8	7/8	210	-	2832.00	2808.00
KMHA031H2	CR37KQ	23900	-	21.9	13.5	19 3/8	32 7/8	24 1/4	1/2	7/8	210	-	2936.00	2912.00
KMHA035H2	CR41KQ	26300	-	22.8	15.8	19 3/8	32 7/8	24 1/4	1/2	7/8	214	-	3474.00	3448.00
KMHA040H2	CR53KQ	35500	-	34.6	22.5	29	43.1/8	30	1/2	1 1/8	285	-	4116.00	3946.00
KMHA050H2	CRN5-0500	41200	-	40.6	26.1	29	43.1/8	30	1/2	1 1/8	319	-	4620.00	4474.00

British Columbia

Alberta

Saskatchewan

Manitoba

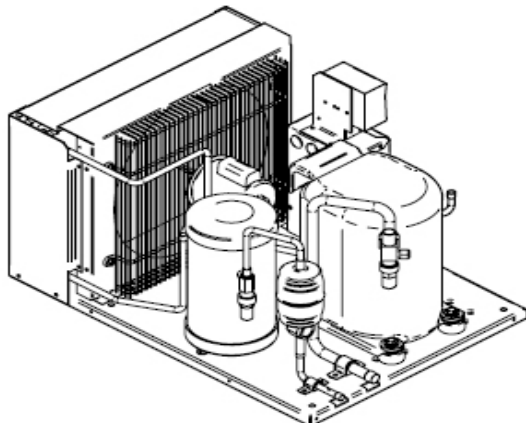
Thunderbay



KMHA-LINE

Indoor / Condensing Units

R22, R404A, R507, 115/1/60,
208-230-1-60 , 208-230-3-60



KMH condensing units are designed and built using our unrivalled experience in refrigeration condensing units. Every aspect is engineered to ensure reliability and economy of operation together with ease of installation. Space saving compact design
High efficiency PSC motors
Adjustable low(1hp&below)or High/low (above 1hp)pressure control
Available from 1/2 to 5 HP.

R404A,R507 Copeland,Maneurop KMHA-LINE Extended Medium Temperature

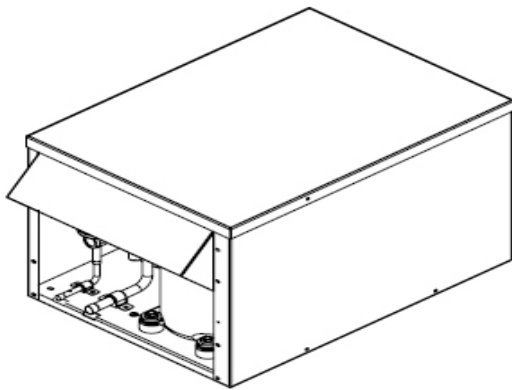
MODEL	COMP	BTUH @ 95°F Amb.		MIN CIRCUIT AMPAC			DIMENSIONS In.			CONNECTIONS		AP-PROX. SHIP WEIGHT Lbs	List-Price 115/1	List-Price 208/1ph	List-Price 230/1ph
		+25°F SST	-10°F SST	115/1	208-230/1	208/230/3	High	Wide	Deep	LIQUID	SUC-TION				
KMHA006E6	RS43C2E	5730	2464	12.5	6.5	-	13 3/8	17 7/8	24 1/4	3/8	5/8	95	2054.00	1972.00	-
KMHA008E6	RS55C2E	6960	3007	15.9	7.3	-	13 3/8	17 5/8	24 1/4	3/8	5/8	95	2048.00	1964.00	-
KMHA009E6	RS64C2E	8280	3773	14.7	9.2	-	13 3/8	17 5/8	24 1/4	3/8	5/8	95	2278.00	2194.00	-
KMHA010E6	RS70C1E	9050	3958	-	8.4	5.8	15 7/8	19 5/8	24 1/4	3/8	5/8	95	-	2330.00	2294.00
KMHD016M6	MTZ18	13400	5860	-	10.9	7.7	19 3/8	32 7/8	24 1/4	3/8	5/8	146	-	2392.00	2342.00
KMHD021M6	MTZ22	17100	6315	-	14.7	9.9	19 3/8	32 7/8	24 1/4	3/8	7/8	208	-	2858.00	2784.00
KMHD025M6	MTZ28	20500	81300	-	21.1	13.9	19 3/8	32 7/8	24 1/4	1/2	7/8	212	-	3056.00	3074.00
KMHD031M6	MTZ36	24400	10800	-	25.1	14.7	19 3/8	32 7/8	24 1/4	1/2	7/8	215	-	3152.00	3164.00
KMHD036M6	MTZ44	28500	12200	-	25.9	18.7	19 3/8	32 7/8	24 1/4	1/2	7/8	216	-	3686.00	3606.00
KMHD040M6	MTZ50	36700	15800	-	30.9	22.1	29	43.5	30	1/2	1 1/8	282	-	4380.00	4282.00
KMHD050M6	MTZ56	39700	17400	-	36.2	22.9	29	43.5	30	1/2	1 1/8	287	-	4464.00	4374.00

R404A/507 Copeland,Maneurop KMHA-Line Low Temperature

MODEL	COMPRES-SOR	BTUH @ 95°F Amb.		MINIMUM CIRCUIT AMPACITY			DIMENSIONS In.			CONNEC-TIONS		AP-PROX. SHIP WEIGHT Lbs.	List Price 115/1	List Price 208/1ph	List Price 230/12ph
		-10°F SST	-20°F SST	115/1	208-230/1	208-230/3	High	Wide	Deep	LIQ-UID	SUC-TION				
KMHA006L6	AFT22C1E	2580	1990	11.4	4.7	-	16 1/8	17 7/8	27	3/8	1/2	86	1690.00	1606.00	-
HMHA008L6	AFT26C1E	3170	2420	11.0	5.7	-	16 1/8	17 7/8	27	3/8	1/2	88	1782.00	1698.00	-
KMHA010L6	CF04K6E	4520	3320	-	12.9	9.3	16 1/8	17 7/8	27	3/8	5/8	120	-	1942.00	1980.00
KMHD015L6	LTZ22	7110	5400	-	14.1	13.9	19 5/8	33	29.25	3/8	7/8	119	-	2038.00	2126.00
KMHA020L6	CF06K6E	7940	5800	-	13.3	8.4	19 5/8	33	29.25	3/8	7/8	123	-	2190.00	2284.00
KMHD025L6	LTZ28	10600	8160	-	21.1	18.7	19 5/8	33	29.25	1/2	7/8	224	-	2098.00	2226.00
KMHD031L6	LTZ40	15400	11900	-	26	20.5	19 5/8	33	29.25	1/2	7/8	224	-	3650.00	3710.00
KMHD040L6	LTZ50	22800	17600	-	30.9	20.5	19 5/8	33	29.25	1/2	1 1/8	285	-	6046.00	5928.00



Condensing Units



KEH-Line Outdoor Air Cooled Hermetic Condensing Units

Models range in capacity from 1/2 HP to 7 1/2 HP for high/medium, extended medium and low temperature applications. Models are available with Copeland or Maneurop compressors and many standard features all built into a spacious serviceable design. * Option Package "D"

R22 Copeland/Maneurop KEHA-LINE High / Medium Temperature

MODEL	COMP	Btu @ 95°F					Min Circuit Ampacity			DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs	List Price 208/1	List Price 208/3
		25°F SST	208-230-1	208-230-3	460/3	575/3	High	Wide	Deep	Liquid	Suction						
KEHA005H2	ART82C1	5976	7.1	-	-	-	16 7/8	25	34	3/8	1/2	141	2832.00	-			
KEHA008H2	RS64C2	8090	9.1	-	-	-	16 7/8	25	34	3/8	5/8	152	2866.00	-			
KEHA010H2	RS70C1	8870	8.4	5.8	-	-	16 7/8	25	34	3/8	5/8	167	3058.00	3010.00			
KEHA015H2	CR18KQ	13000	11.2	7.9	-	-	19 7/8	36	34	3/8	5/8	277	3546.00	3626.00			
KEHA020H2	CR24KQ	16100	16.3	9.5	4.8	-	19 5/8	36	34	3/8	5/8	282	3606.00	3734.00			
KEHA025H2	CR32KQ	21800	20.2	12.2	6.3	-	19 7/8	36	34	3/8	7/8	292	3784.00	3814.00			
KEHA029H2	CR37KQ	24400	21.9	13.5	6.9	-	19 7/8	36	34	1/2	7/8	298	4026.00	3994.00			
KEHA030H2	CR37KQ	26600	22.9	14.5	7.4	-	30 3/8	47	43	1/2	7/8	394	4556.00	4492.00			
KEHA035H2	CR41KQ	29300	23.9	16.9	7.7	6.8	30 3/8	47	43	1/2	7/8	394	4946.00	4836.00			
KEHA040H2	CR53KQ	36200	34.6	22.5	11.3	-	30 3/8	47	43	1/2	1 1/8	405	5524.00	5334.00			
KEHA050H2	CRN5-0500	43900	40.6	26.1	12.0	9.8	30 3/8	47	43	1/2	1 1/8	415	6316.00	6152.00			
KEHD060H2	MTZ72	47100	-	2.70	13.5	-	30	47	43	1/2	1 1/8	427	-	7294.00			
KEHD075H2	MTZ100	63300	-	36.6	18.7	14.5	42	56	50	5/8	1 1/8	577	-	9340.00			

R404A,R507 Copeland KEHA-LINE Extended Medium Temperature

MODEL	COMP	BTUH @ 95°F Amb.		MIN CIRCUIT AMPACITY			DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs	List Price 208/1	List Price 208/3
		-10°F SST	25°F SST	115/1	208-230/1	208/230/3	High	Wide	Deep	Liquid	Suction			
KEHA006E6*	RST45C1E	2740	6310	13	6.3	-	16 1/8	24	34	3/8	5/8	149	3224.00	-
KEHA008E6*	RST55C1E	3330	7340	18.1	8.1	-	16 1/8	24	34	3/8	5/8	149	3262.00	-
KEHA009E6*	RST64C1E	4030	8610	17.6	10.5	-	16 1/8	24	34	3/8	5/8	152	3466.00	-
KEHA010E6*	RST70C1E	4009	9490	-	8.4	5.8	16 1/8	36	34	3/8	5/8	167	3626.00	3586.00

R404A/R507 Maneurop KEHD-LINE Extended Medium Temperature

MODEL	COMP	BTUH @ 95°F Amb.		MIN CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		approx. ship weight lbs	List Price 208/1	List Price 208/3
		-10°F SST	25°F SST	208-230-1	208-230-3	460-3	575/3	High	Wide	Deep	Liquid	Suction			
KEHD015M6	MTZ18	6410	15300	11.5	8.4	-	-	20	36	34	3/8	5/8	279	3892.00	3840.00
KEHD020M6	MTZ22	7400	17300	14.7	9.9	5.4	4.1	20	36	34	3/8	5/8	282	4104.00	4040.00
HEHD025M6	MTZ28	8900	20900	21.1	13.9	6.6	5.3	20	36	34	1/2	7/8	286	4384.00	4316.00
KEHD030M6	MTZ36	11800	27700	26.1	15.7	8.4	6.7	30	47	43	1/2	7/8	388	4660.00	4572.00
KEHD035M6	MTZ44	13700	33500	27.0	19.7	8.7	7.7	30	47	43	1/2	7/8	389	5248.00	5290.00
KEHD040M6	MTZ50	16100	37400	30.9	22.1	10.7	8.9	30	47	43	1/2	7/8	389	5804.00	5698.00
KEHD050M6	MTZ56	17700	40500	36.2	22.9	10.7	9.7	30	47	43	1/2	7/8	398	5926.00	5820.00
KEHD060M6	MTZ72	23700	51200	-	27.0	13.5	-	30	47	43	1/2	1 1/8	427	-	8050.00
KEHD075M6	MTZ100	2880	68000	-	36.6	18.7	14.5	42	56	50	5/8	1 1/8	577	-	10062.00

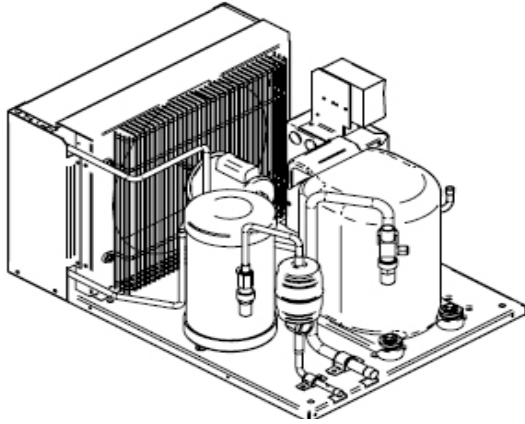
British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



KEH-Line Outdoor Air Cooled Hermetic Condensing Units (cont'd)

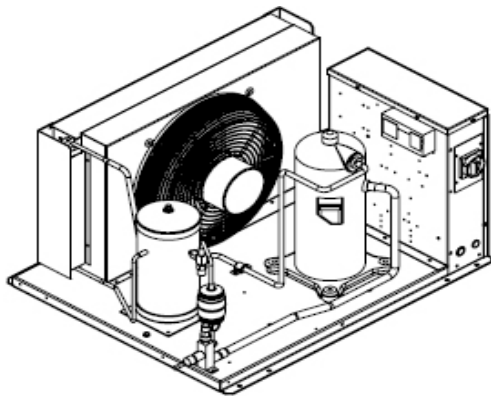
R404A Copeland KEHA-Line Low Temperature

MODEL	compressor	BTUH @ 95°F Amb.		minimum circuit ampacity			dimensions in.			connections		approx. ship weight lbs.	List Price 208/1	List Price 208/3
		-10°F SST	-20°F SST	115/1	208-230/1	208-230/3	High	Wide	Deep	liquid	suction			
KEHA006L6	AFT22C1E	2730.00	1990	11.4	4.7	-	16 1/8	17 7/8	27	3/8	1/2	86	3164.00	-
HEHA008L6	AFT26C1E	3380.00	2420	11.0	5.7	-	16 1/8	17 7/8	27	3/8	1/2	88	3306.00	-
KEHA010L6	CF04K6E	5150.00	3320	-	12.9	8.1	16 1/8	17 7/8	27	3/8	5/8	120	3794.00	3852.00
KEHA020L6	CF06K6E	8100.00	5800	-	13.3	8.4	19 5/8	33	29.25	3/8	7/8	123	3902.00	4010.00

R404A/R507 Maneurop KEHD-LINE Low Temperature

MODEL	COMP	BTUH @ 95°F Amb.		min circuit ampacity				dimensions In.			Connections		approx. ship weight lbs	List Price 208/1	List Price 208/3
		-10°F SST	-20°F SST	208-230-1	208-230-3	460-3	575/3	High	Wide	Deep	Liquid	Suction			
KEHD015L6	NTZ048	7250	5500	11.1	8.6	3.9	-	17	25	34	3/8	5/8	190	3852.00	3950.00
KEHD025L6	NTZ068	11300	8620	18.0	13.0	7.4	-	20	36	34	3/8	5/8	281	4000.00	4152.00
HEHD030L6	NTZ096	15700	12100	26.0	17.5	8.7	8.5	20	36	34	1/2	7/8	292	5830.00	5900.00
KEHD040L6	NTZ136	23200	18000	35.0	25.4	12.6	-	30	47	43	1/2	7/8	389	8414.00	8272.00
KEHD065L6	NTZ215	36400	27300	-	36.6	19.0	-	30	47	43	1/2	7/8	427	-	9250.00
KEHD075L6	NTZ271	45300	34900	-	47.4	22.7	-	42	56	43	1/2	7/8	577	-	11074.00

Condensing Units



KEZ-Line Outdoor Air Cooled Scroll Condensing Units

Models range in capacity from 1 hp to 15 hp for high, medium and low temperature applications. KEZ units are available with copeland scroll compressors and come complete with many standard features. * Option D Package *

R22 Copeland Scroll

KEZ-Line

High Temperature

MODEL	compressor	btuh @ 95°F amb.		minimum circuit ampacity				dimensions in.			connections		Approx. ship weight lbs.	List Price 208/1	List Price 208/3
		25°F SST	208-230/1/60	208-230/3/60	460/3/60	575/3/60	height	width	depth	Liquid	Suction				
KEZA020H2	ZB15KCE	-	18200	20.7	12.2	6.9	-	19 7/8	36 3/8	34 3/8	3/8	7/8	300	3936.00	3962.00
KEZA025H2	ZB19KCE	-	20700	23.5	13.6	6.9	-	19 7/8	36 3/8	34 3/8	3/8	7/8	320	3858.00	3910.00
KEZA030H2	ZB21KCE	-	27400	28.0	17.2	8.7	7.2	30 3/8	47 3/8	43	1/2	1 1/8	410	4716.00	4796.00
KEZA035H2	ZB26KCE	-	31300	28.0	19.5	10.0	7.2	30 3/8	47 3/8	43	1/2	1 1/8	415	5184.00	5260.00
KEZA040H2	ZB30KCE	-	36000	35.6	21.7	10.5	8.4	30 3/8	47 3/8	43	1/2	1 1/8	420	5740.00	5816.00
KEZA050H2	ZB38KCE	-	44400	41.0	29.7	13.1	10.5	30 3/8	47 3/8	43	1/2	1 1/8	425	6314.00	6408.00
KEZA060H2	ZB45KCE	-	53900	-	30.2	15.5	12.4	30 3/8	47 3/8	43	5/8	1 1/8	470	-	6734.00
KEZA065H2	ZB50KCE	-	58400	-	37.9	19.9	14.8	41 7/8	55 5/8	43	5/8	1 1/8	510	-	11776.00
KEZA070H2	ZB58KCE	-	65100	-	42.2	21.6	17.0	41 7/8	55 5/8	43	5/8	1 3/8	515	-	11791.00
KEZA076H2	ZB66KCE	-	77100	-	46.2	24.1	18.7	41 7/8	68 5/8	43	5/8	1 3/8	635	-	12443.00
KEZA086H2	ZB76KCE	-	90100	-	56.0	26.2	19.1	41 7/8	68 5/8	43	5/8	1 3/8	645	-	14602.00
KEZA100H2	ZB88KCE	-	99000	-	63.0	29.8	21.6	41 7/8	68 5/8	43	5/8	1 3/8	645	-	15978.00
KEZA150H2	ZB114KCE	-	130100	-	80.5	39.2	32.3	45 1/2	75 7/8	45 3/4	7/8	1 5/8	790	-	17921.00

R404A/507 Copeland Scroll

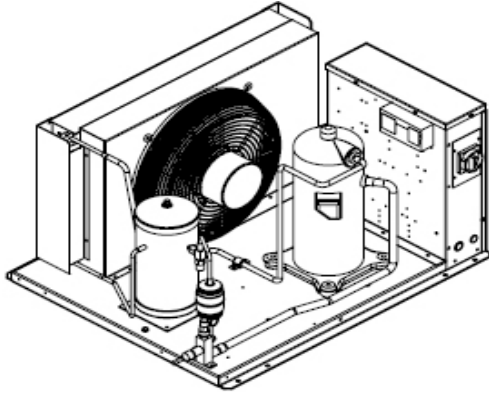
KEZ-Line

Medium Temperature

MODEL	Compressor	btuh @ 95°F Amb.		minimum circuit ampacity				dimensions in.			connections		approx. ship weight lbs.	List Price 208/1	List Price 208/3
		25°F sst	0°F sst	208-230/1/60	208-230/3/60	460/3/60	575/3/60	height	width	depth	liquid	suction			
KEZA010M6	ZB10KCE	12000	7400	13.0	-	-	-	16 7/8	24 7/8	34 3/8	3/8	5/8	200	3267.00	-
KEZA011M6	ZB11KCE	14000	8500	13.6	-	-	-	19 7/8	36 3/8	34 3/8	3/8	5/8	285	3481.00	-
KEZA015M6	ZB13KCE	16500	9600	17.2	-	-	-	19 7/8	36 3/8	34 3/8	3/8	7/8	285	3711.00	-
KEZA020M6	ZB15KCE	18200	11400	20.7	12.2	6.9	-	19 7/8	36 3/8	34 3/8	3/8	7/8	300	3972.00	4000.00
KEZA025M6	ZB19KCE	22700	14200	23.5	13.6	6.9	-	19 7/8	36 3/8	34 3/8	1/2	7/8	320	4232.00	4290.00
KEZA030M6	ZB21KCE	28400	17600	28.0	17.2	8.7	7.2	30 3/8	47 3/8	43	1/2	1 1/8	410	4672.00	5000.00
KEZA035M6	ZB26KCE	32500	20200	31.6	19.5	10.0	8.0	30 3/8	47 3/8	43	1/2	1 1/8	415	5404.00	5484.00
KEZA040M6	ZB30KCE	36300	22300	35.6	21.7	10.5	8.4	30 3/8	47 3/8	43	1/2	1 1/8	420	5846.00	5924.00
KEZA050M6	ZB38KCE	45400	28500	41.0	29.7	13.1	10.5	30 3/8	47 3/8	43	1/2	1 1/8	425	6510.00	6608.00
KEZA060M6	ZB45KCE	55200	34400	-	30.2	15.5	12.4	30 3/8	47 3/8	43	5/8	1 1/8	470	-	6962.00
KEZA065M6	ZB50KCE	59800	36400	-	37.9	19.9	14.8	41 7/8	55 5/8	43	5/8	1 1/8	510	-	11920.00
KEZA070M6	ZB58KCE	63900	39000	-	42.2	21.6	17.0	41 7/8	68 5/8	43	5/8	1 1/8	515	-	11975.00
KEZA076M6	ZB66KCE	63900	39000	-	46.2	24.1	18.7	41 7/8	68 5/8	43	5/8	1 3/8	635	-	12443.00
KEZA086M6	ZB76KCE	89900	57200	-	56.0	27.2	19.1	41 7/8	68 5/8	43	5/8	1 3/8	645	-	14602.00
KEZA110M6	ZB95KCE	114400	70700	-	73.3	36.4	26.9	45 1/2	75 7/8	59	7/8	1 3/8	690	-	15978.00
KEZA150M6	ZB114KCE	132400	82000	-	85.5	43.5	32.3	45 1/2	75 7/8	59	7/8	1 5/8	690	-	17921.00



KEZ-Line Outdoor Air Cooled Scroll Condensing Units



Models range in capacity from 1 hp to 15 hp for high, medium and low temperature applications. KEZ units are available with copeland scroll compressors and come complete with many standard features. * Option E Package*

R404A/507 Copeland Scroll

KEZ-Line Low Temperature

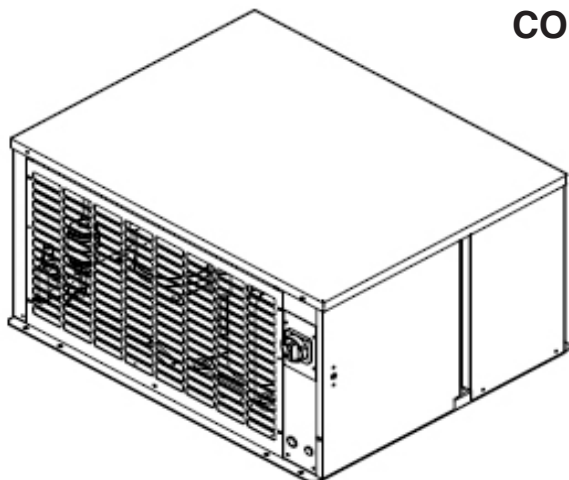
MODEL	comp-ressor	btuh @ 95°F Amb.		minimum circuit ampacity				dimensions in.			connections		approx. ship weight lbs.	List Price 208/1	List Price 208/3
		-10°F sst	-20°F sst	208-230/1/60	208-230/3/60	460/3/60	575/3/60	height	width	depth	liquid	suction			
KEZA020L6	ZF06K4E	9600	7800	17.5	12.1	-	-	19 7/8	36 3/8	34 3/8	3/8	7/8	315	5570.00	5862.00
KEZA025L6	ZF08K4E	12200	9900	21.6	13.2	6.9	-	19 7/8	36 3/8	34 3/8	3/8	7/8	335	5938.00	6026.00
KEZA030L6	ZF09K4E	13500	11000	21.6	15.0	7.7	5.9	19 7/8	36 3/8	43	3/8	7/8	425	6454.00	6550.00
KEZA035L6	ZF11K4E	16300	13300	27.0	18.1	9.5	6.8	19 7/8	36 3/8	43	1/2	1 1/8	430	7002.00	7090.00
KEZA045L6	ZF13K4E	19200	15400	35.6	20.9	11.4	11.2	30 3/8	47 3/8	43	1/2	1 1/8	435	7286.00	7366.00
KEZA055L6	ZF15K4E	23100	18800	41.9	28.9	13.1	10.8	30 3/8	47 3/8	43	1/2	1 1/8	440	7450.00	7530.00
KEZA060L6	ZF18K4E	28000	22800	-	32.0	12.7	10.8	30 3/8	47 3/8	43	1/2	1 3/8	485	-	8196.00
KEZA075L6	ZF24K4E	34500	27900	-	39.6	20.7	12.0	41 7/8	55 5/8	43	5/8	1 3/8	495	-	11984.00
KEZA100L6	ZF33K4E	46900	38100	-	56.6	27.5	21.0	41 7/8	55 5/8	43	5/8	1 3/8	545	-	15138.00
KEZA130L6	ZF40K4E	57200	46800	-	60.5	29.8	26.8	41 7/8	68 5/8	43	5/8	1 3/8	725	-	17710.00
KEZA150L6	ZF48K4E	64800	52700	-	73.0	32.6	26.3	41 7/8	68 5/8	43	5/8	1 3/8	745	-	18458.00



Condensing Units



KES-LINE OUTDOOR AIR COOLED SEMI-HERMETIC CONDENSING UNITS



Models range in capacity from 1/2 hp to 22 hp for high/medium and low temperature applications. KES units are available with Copeland or Bitzer compressors along with many standard features, giving you the quality you expect and the options you demand.

* Option package " D " *

R22 Copeland KESA-LINE High Temperature

MODEL	COMP	btu @ 95 F amb	MIN CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs	List Price 208/1	List Price 208/3
		25°F SST	208-230-1	208-230-3	460-3	575-3	High	Wide	Deep	Liquid	Suction			
KESA008H2	KAN2-0075	6920	8.1	4.9	-	-	16 7/8	25	34	3/8	1/2	240	3755.00	3768.00
KESA010H2	KAR2-0100	9530	9.8	5.9	-	-	16 7/8	25	34	3/8	5/8	270	4152.00	4157.00
KESA015H2	KAGB-0150	12000	13.1	8.0	3.7	-	19 7/8	36	34	3/8	7/8	310	4625.00	4606.00
KESA020H2	KAKB-0200	16600	14.4	9.6	4.4	-	19 7/8	36	34	1/2	7/8	320	5666.00	5579.00
KESA030H2	ERF1-0310	27110	23.4	15.7	8.9	-	30	47	43	1/2	11/8	477	10546.00	6854.00
KESA050H2	2DC3-R53KE	44280	39.5	30.0	14.1	10.5	42	56	50	5/8	13/8	766	-	10096.00
KESA051H2	2DD3-R63KE	50650	-	30.0	14.2	10.8	42	56	50	5/8	13/8	769	-	10385.00
KESA075H2	2DL3-R78KE	62010	-	41.6	18.4	17.4	42	56	50	5/8	1 3/8	780	-	12503.00
KESA076H2	2DA3-R89KE	68890	-	42.1	18.7	17.5	42	56	50	5/8	1 3/8	780	-	12714.00
KESA080H2	3DA3R10ME	86500	-	55.5	27.2	22.4	42	69	50	5/8	1 3/8	885	-	15593.00
KESA100H2	3DB3R12ME	100600	-	58.7	27.2	22.4	42	69	50	5/8	1 3/8	885	-	16298.00
KESA120H2	3DF3R15ME	121400	-	67.3	32.9	-	45.5	76	59	7/8	1 3/8	1085	-	17579.00
KESA150H2	3DS3R17ME	135700	-	81.7	39.7	32.3	45.5	76	59	7/8	1 5/8	1085	-	18159.00
KESA200H2	4DA3R18ME	144500	-	80.6	40.2	32.6	45.5	76	59	7/8	1 5/8	1085	-	21016.00

R407C/R22 Copeland KESA-LINE Medium Temperature

MODEL	COMP	BTUH @ 95°F Amb.		MIN CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs	List Price 208/1	List Price 208/3
		0°F SST	25°F SST	208-230-1	208-230-3	460-3	575-3	High	Wide	Deep	Liquid	Suction			
KESA008M2	KAE2-0075	4230	7560	7.3	4.8	-	-	16 7/8	25	34	3/8	5/8	240	3597.00	3610.00
KESA010M2	KAM2-0100	5690	10600	9.9	6.1	-	-	16 7/8	25	34	1/2	5/8	270	4599.00	4603.00
KESA021M2	ERC1-0200	9570	18300	14.7	9.6	5.1	4.5	19 7/8	36	34	1/2	7/8	390	5496.00	5412.00

Condensing Units



KES-LINE OUTDOOR AIR COOLED SEMI-HERMETIC CONDENSING UNITS (CONT'D)

R404A/R507 Copeland KESA-LINE Medium Temperature Option Pkg " D "

MODEL	COMP	BTUH @ 95°F Amb.		MIN CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs	List Price 208/3
		0°F SST	25°F SST	208-230-1	208-230-3	460-3	575-3	High	Wide	Deep	Liquid	Suction		
KESA010M6	KARB-010E	5600	9360	9.8	5.9	-	-	16 7/8	25	34	3/8	5/8	270	3817.00
KESA020M6	KAKA-020E	9050	15400	14.4	9.6	4.4	-	19 7/8	36	34	1/2	7/8	320	5206.00
KESA021M6	ERCA-021E	11300	19400	-	12.1	5.5	4.5	19 7/8	36	34	1/2	7/8	390	5478.00
KESA030M6	ERFA-031E	16640	28360	23.4	17.6	8.4	-	30	47	43	1/2	7/8	477	6857.00

R404A/R507 Copeland KESA-LINE High Temperature

KESA050H6	2DC3R53KE	25770	45240	-	22.3	10.4	7.7	42	56	43	1/2	1 1/8	766	10242.00
KESA051H6	2DD3R63KE	30720	52880	-	22.3	10.5	7.9	42	56	43	1/2	1 1/8	769	10624.00
KESA075H6	2DL3R78KE	37300	62190	-	31.6	13.8	13.2	42	56	50	5/8	1 3/8	780	12681.00
KESA076H6	2DA3R89KE	43340	69480	-	32.0	14.1	13.3	42	56	50	5/8	1 3/8	780	12177.00
KESA080H6	3DA3R10ME	51900	85500	-	41.0	20.0	16.5	42	69	50	5/8	1 3/8	885	15593.00
KESA100H6	3DB3R12ME	61300	98300	-	43.6	20.0	16.5	42	69	50	5/8	1 3/8	885	16298.00
KESA120H6	3DF3R15ME	77200	125400	-	48.1	23.6	-	46	76	59	7/8	1 3/8	1085	17579.00
KESA150H6	3DS3R17ME	84500	136100	-	59.6	29.0	23.6	46	76	59	7/8	1 3/8	1085	18159.00
KESA200H6	4DA3R18ME	85300	141200	-	58.7	29.4	23.8	46	76	59	7/8	1 3/8	1085	21015.00

R404A/R507 Copeland KESA-LINE Low Temperature Option Pkg " E "

MODEL	COMP	BTUH @ 95°F Amb.		MIN CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs	List Price 208/3
		-10°F SST	-20°F SST	208-230-1	208-230-3	460-3	575-3	High	Wide	Deep	Liquid	Suction		
KESA005L6	KANB-005E	2750	1960	5.5	3.3	-	-	16 7/8	25	34	3/8	1/2	240	4341.00
KESA008L6	KAMB-007E	4580	3440	7.5	4.5	-	-	16 7/8	25	34	3/8	5/8	270	4643.00
KESA010L6	KAJB-010E	5760	4460	9.1	6.3	-	-	16 7/8	25	34	3/8	7/8	290	4656.00
KESA015L6	KALB-015E	8960	6910	13.5	9.4	4.9	-	19 7/8	36	34	3/8	7/8	315	5325.00
KESA020L6	EADB-021E	10100	7590	13.6	9.6	-	-	19 7/8	36	34	3/8	7/8	385	6273.00
KESA021L6	EAVB-021E	11400	8770	19.5	10.4	5.5	4.4	19 7/8	36	34	1/2	7/8	390	6358.00
KESA030L6	LAHA-032E	18630	13920	23.0	18.1	8.6	6.0	30	47	43	1/2	1 1/8	493	8163.00
KESA032L6	LACA-032E	-	18780	21.5	18.1	8.6	-	30	47	43	1/2	1 1/8	491	8190.00
KESA035L6	2DF3F16KE	24080	18780	-	23.1	11.2	9.3	30	47	43	1/2	1 1/8	588	9999.00
KESA040L6	2DL3F20KE	29510	23110	--	35.0	13.9	10.5	30	47	43	1/2	1 1/8	618	11202.00
KESA060L6	2DB3F25KE	36760	28840	-	37.4	17.7	12.9	42	56	50	5/8	1 3/8	781	12160.00
KESA061L6	3DA3F28KE	40480	31980	-	40.0	18.2	14.0	42	56	50	5/8	1 3/8	819	12795.00
KESA075L6	3DB3F33KE	46550	37120	-	41.5	21.2	14	42	56	50	5/8	1 3/8	827	14673.00
KESA090L6	3DF3F40KE	58500	46200	-	50.5	23.1	21.4	42	69	50	5/8	1 3/8	885	17109.00
KESA100L6	3DSF46KE	64500	51400	-	56.7	25.5	22.8	42	69	50	5/8	1 3/8	885	18263.00
KESA120L6	4DASF47KE	69400	55000	-	64.2	31.9	24.6	45	76	59	7/8	1 5/8	1185	18604.00
KESA150L6	4DL3F63KE	88300	71200	-	73.0	36.3	28.9	45	76	59	7/8	1 5/8	1185	19718.00
KESA220L6	4DT3F76KE	102700	83000	-	87.6	43.5	32.9	45	76	59	7/8	2 1/8	1185	22702.00

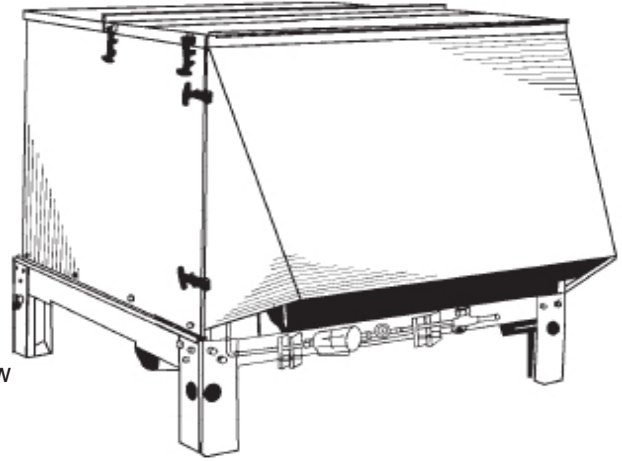


Condensing Units



K-Line

Outdoor Air Cooled Semi Hermetic Condensing Units 3 - 30 HP Large Chassis R22,R134A,R404,R507



The K-Line Semi-Hermetic indoor/outdoor air cooled condensing unit offers the most current high efficiency accessible semi-hermetic compressor available today. Consisting of a generously sized copper tube, aluminum fin condenser coil, the K-Line allows maximum operational efficiency with low refrigerant charges. A weatherproof electrical control panel is standard with compressor contactor and fused control circuit. Dual high/low pressure and oil safety control included where required. Drier and sightglass

Units shipped with polyester oil.

* Pricing based on Standard Units *
Call for options

R22,R404A,R507

K-Line

High/Medium Temperature

MODEL	Copeland Compressor	Btu @ 95 F		MINIMUM CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/3
		25°F SST		208-230/1/60	208-230/3/60	460/3/60	575/3/60	HEIGHT	WIDTH	DEPTH	LIQUID	SUCTION		
K300M8	ERF1-031E	25330		24.5	18.7	8.9	8.1	35 1/2	38 1/4	46	1/2	1 1/8	450	7042.00
K500M8	2DC3-050E	44970		-	37.1	17.6	14.3	35 1/2	58 1/4	46	5/8	1 3/8	730	10864.00
K510M8	2DD3-050E	51140		-	37.5	17.7	14.5	35 1/2	58 1/4	46	5/8	1 3/8	730	10878.00
K750M8	2DL3-075E	64620		-	47.9	21.5	20.7	39	68 1/4	55	5/8	1 3/8	890	13569.00
K760M8	3DA3-075E	86580		-	59.7	29.2	24.8	39	68 1/4	55	5/8	1 3/8	1000	13658.00
K1000M8	3DB3-100E	102100		-	62.9	29.2	24.8	49	68 1/4	57	5/8	1 3/8	1000	16818.00
K1500M8	3DS3-150E	134100		-	82.9	40.5	33.7	49	68 1/4	57	7/8	1 5/8	1075	18584.00
K2000M8	4DA3-200E	151190		-	95.1	47.6	37.2	53	98 1/4	66 1/4	7/8	1 5/8	1417	21604.00
K2500M8	4DH3-250E	193000		-	115.2	57.7	49.3	53	98 1/4	66 1/4	1 1/8	2 1/8	1470	25716.00
K3000M8	4DJ3-300E	214000		-	130.1	65.1	55.4	53	98 1/4	66 1/4	1 1/8	2 1/8	1475	29990.00

R404A/507

Low Temperature

MODEL	Copeland Compressor	BTUH @ 95°F Amb.		MINIMUM CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/3
		-10°F SST	-20°F SST	208-230/1/	208-230/3/	460/3/	575/3/	High	Width	Depth	LIQUID	SUCTION		
K300L6	LAHA-032E	18100	13300	24.1	19.2	9.1	-	35 1/2	38 1/4	46	1/2	1 1/8	540	7194.00
K350L6	2DF3-030E	24270	18880	35.5	25.6	12.4	10.7	35 1/2	48 1/4	46	1/2	1 1/8	685	10430.00
K400L6	2DL3-040E	28440	22360	-	37.5	15.0	11.9	35 1/2	48 1/4	46	1/2	1 1/8	685	11408.00
K600L6	2DA3-060E	33100	26160	-	45.2	17.3	16.0	35 1/2	58 1/4	46	5/8	1 3/8	760	12030.00
K610L6	3DA3-060E	39170	30850	-	47.1	21.7	17.7	35 1/2	58 1/4	46	5/8	1 3/8	850	12788.00
K750L6	3DB3-075E	46170	36460	-	48.8	24.7	18.4	35 1/2	58 1/4	46	5/8	1 3/8	880	15078.00
K900L6	3DF3-090E	57480	45500	-	57.2	25.3	24.8	39	68 1/4	55	5/8	1 3/8	1090	16501.00
K1000L6	3DS3-100E	65510	52010	-	60.9	27.5	25.2	49	68 1/4	57	5/8	1 3/8	1125	17706.00
K1500L6	4DL3-150E	86250	69610	-	74.2	37.1	30.3	49	68 1/4	57	7/8	1 5/8	1260	18845.00
K2000L6	4DT3-220E	103120	82880	-	90.9	45.5	34.5	49	68 1/4	57	1 1/8	2 1/8	1330	23062.00
K2500L6	6DL3-270E	128990	101780	-	113.6	56.8	46.9	53	98 1/4	66 1/4	1 1/8	2 1/8	1443	27956.00
K3000L6	6DT3-300E	146160	115639	-	132.1	66.1	55.8	53	98 1/4	66 1/4	1 1/8	2 1/8	1775	31077.00

British Columbia

Alberta

Saskatchewan

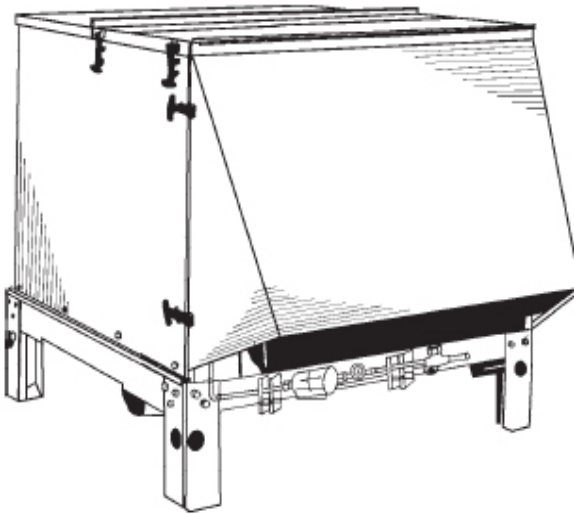
Manitoba

Thunderbay



K-Line
Outdoor Air Cooled
Semi Hermetic Condensing Units
3 - 30 HP Large Chassis
R22,R134A,R404,R507

The K-Line Semi-Hermetic indoor/outdoor air cooled condensing unit offers the most current high efficiency accessible semi-hermetic compressor available today. Consisting of a generously sized copper tube, aluminum fin condenser coil, the K-Line allows maximum operational efficiency with low refrigerant charges. A weatherproof electrical control panel is standard with compressor contactor and fused control circuit. Dual high/low pressure and oil safety control included where required. Drier and sightglass
Units shipped with polyester oil.



* Pricing based on Standard Units *
Call for options

R134A K-Line High/Medium Temperature

Table with 14 columns: MODEL, Copeland Compressor, Btu @ 95 F (25°F SST), MINIMUM CIRCUIT AMPACITY (208-230/1/60, 208-230/3/60, 460/3/60, 575/3/60), DIMENSIONS In. (HEIGHT, WIDTH, DEPTH), CONNECTIONS (LIQ-UID, SUC-TION), APPROX. SHIP WEIGHT Lbs., List Price 208/3.



Condensing Units



KXH-LINE, INDOOR WATER COOLED COAXIAL HERMETIC CONDENSING UNIT

KX Indoor Coaxial Water Cooled Condensing Unit models range in capacity from 1/2 hp to 5 hp for high, medium and low temperature applications.

Models are available with Copeland Hermetic and Semi-Hermetic compressors and are complete with many standard features all built into a spacious serviceable design.

Numerous factory-installed options(call for pricing) allow you to customize units to your specific application.

Pricing based on standard features

KXH Models -Hermetic

R22 High/Medium Temperature

MODEL	COMP-RESSOR	BTUH @ 95°F Amb.	MINIMUM CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/1
		25°F SST	115/1/60	208-230/1	208-230-3	460/3/60	High	Wide	Deep	LIQ-UID	SUC-TION		
KXHA005H2	ART82C1	5960	13.3	6.6	-	-	16.5	25	30	3/8	1/2	110	1379.00
KXHA008H2	RS64C2	8500	14.9	8.6	-	-	16.5	25	30	3/8	5/8	120	1586.00
KXHA010H2	RS70C1	9740	18.8	7.9	5.3	-	16.5	25	30	3/8	5/8	140	1658.00
KXHA015H2	CR18KQ	13000	-	10.1	6.8	-	16.5	25	30	3/8	5/8	240	1754.00
KXHA020H2	CR24KQ	17100	-	15.2	8.4	4.2	19.5	36	30	3/8	5/8	240	1827.00
KXHA025H2	CR32KQ	23100	-	19.1	11.1	5.7	19.5	36	30	3/8	7/8	250	2255.00
KXHA030H2	CR37KQ	26900	-	20.8	12.4	6.3	19.5	36	30	1/2	7/8	330	2682.00
KXHA035H2	CR41KQ	29900	-	21.7	14.7	6.7	30	47	33	1/2	7/8	330	3256.00
KXHA040H2	CR53KQ	38600	-	32.5	20.4	10.2	30	47	33	1/2	1 1/8	340	3829.00
KXHA050H2	CRN5-0500	45800	-	38.5	24.0	10.8	30	47	33	1/2	1 1/8	350	4261.00

KXH Models -Hermetic

R404A Extended Medium Temperature

MODEL	COMP-RESSOR	BTUH @ 95°F Amb.	BTUH @95 Amb	MINIMUM CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/1
		-10°F SST	25 SST	115/1/60	208-230/1	208-230-3	460/3/60	High	Wide	Deep	LIQ-UID	SUC-TION		
KXHA006E6	RS43C2E	2270	5910	11.4	6.0	-	-	16.5	25	30	3/8	5/8	120	1597.00
KXHA008E6	RS55C2E	2900	7720	14.8	6.8	-	-	16.5	25	30	3/8	5/8	120	1643.00
KXHA009E6	RS64C2E	3590	8690	13.6	8.7	-	-	16.5	25	30	3/8	5/8	120	1710.00
KXHA010E6	RS70C1E	3710	9740	-	7.9	5.3	-	16.5	25	30	3/8	5/8	140	1899.00
KXHA015E6	CS10K6E	4580	14600	-	12.3	8.4	4.0	19.5	36	30	3/8	5/8	240	2004.00
KXHA020E6	CS12K6E	5670	17100	-	12.3	8.4	-	19.5	36	30	3/8	7/8	240	2278.00
KXHA025E6	CS14K6E	7160	19600	-	14.0	10.3	5.3	19.5	36	30	1/2	7/8	240	2490.00
KXHA030E6	CS18K6E	8630	25700	-	17.9	9.9	5.3	30	47	33	1/2	7/8	320	3035.00
KXHA035E6	CS20K6E	10100	29500	-	20.8	12.8	5.7	30	47	33	1/2	7/8	320	3213.00
KXHA040E6	CS27K3E	12800	37100	-	26.8	17.5	9.5	30	47	33	1/2	7/8	320	4355.00
KXHA050E6	CS33K3E	16100	45000	-	34.5	21.0	11.1	30	47	33	1/2	7/8	320	4865.00

KXH Models -Hermetic

R404A Low Temperature

MODEL	COMP-RESSOR	BTUH @ 95°F Amb.	BTUH @95 Amb	MINIMUM CIRCUIT AMPACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/1
		-10°F SST	-20 SST	115/1/60	208-230/1	208-230-3	460/3/60	High	Wide	Deep	LIQ-UID	SUC-TION		
KXHA006L6	AFT22C1E	2530	1900	10.3	4.2	-	-	16.5	25	30	3/8	1/2	110	1350.00
KXHA008L6	AFT26C1E	3210	2370	9.9	5.2	-	-	16.5	25	30	3/8	5/8	160	1648.00
KXHA010L6	CF04K6E	5310	3570	-	12.4	7.6	-	16.5	25	30	3/8	7/8	160	1989.00
KXHA020L6	CF06K6E	8330	5720	-	12.8	7.9	-	16.5	25	30	3/8	7/8	160	2018.00
KXHA025L6	CF09K6E	12400	8810	-	18.8	11.5	6.2	19.5	36	30	3/8	7/8	240	2120.00
KXHA030L6	CF12K6E	16000	11700	-	23.0	13.8	7.4	19.5	36	30	1/2	7/8	250	3245.00

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

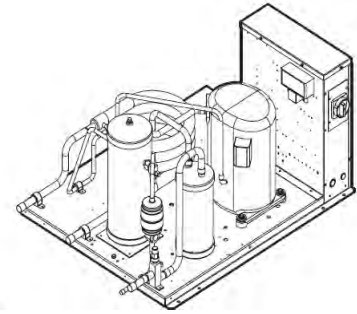
KXS-LINE, INDOOR WATER COOLED COAXIAL SEMI-HERMETIC CONDENSING UNIT

KX Indoor Coaxial Water Cooled Condensing unit models range in capacity from 1/2 hp to 5 hp for high, medium and low temperature applications.

Models are available with Copeland Hermetic and Semi-Hermetic compressors and are complete with many standard features all built into a spacious serviceable design.

Pricing based on standard features.

Call for pricing on optional feature pricing



R22 Semi-Hermetic KXS-Line High Temperature

MODEL	COMPRESSOR	BTUH @ 95°F Amb.	MINIMUM CIRCUIT AMPACITY			DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/1
		25°F SST	208-230/1/60	208-230/3/60	460/3/60	High	Wide	Deep	LIQUID	SUCTION		
KXSA008H2	HAN2-0075	7080	7.6	4.4	-	16 1/2	25	30 3/8	3/8	1/2	220	4281.00
KXSA010H2	KAR2-0100	9950	9.3	5.4	-	16 1/2	25	30 3/8	3/8	5/8	240	4340.00
KXSA015H2	KAGB-0150	12100	12.0	6.9	3.1	16 1/2	25	30 3/8	3/8	7/8	280	5269.00
KXSA020H2	KAKB-0200	16800	13.3	8.5	3.8	19 1/2	36	30 3/8	1/2	7/8	290	5431.00
KXSA030H2	ERF1-0310	28200	21.3	14.6	8.0	30	47	33	1/2	1 1/8	410	7266.00

R404A Semi-Hermetic KXS-Line Medium Temperature

MODEL	COMPRESSOR	BTUH @ 95°F Amb.	BTUH @ 25°F Amb	MINIMUM CIRCUIT AM-PACITY				DIMENSIONS In.			CONNECTIONS		APPROX. SHIP WEIGHT Lbs.	List Price 208/3
		0°F SST	25F SST	208-230/1	208-230/3	460/3/60	575-3	High	Wide	Deep	LIQUID	SUCTION		
KXSA010M6	KARB-010E	5540	9870	9.3	5.4	-	-	16 1/2	25	30 3/8	3/8	5/8	240	4760.00
KXSA020M6	KAKA-020E	8930	16400	13.3	8.5	3.8	-	19 1/2	36	30 3/8	1/2	7/8	290	5518.00
KXSA021M6	ERCA-021E	11200	20800	-	11.0	4.4	3.9	19 1/2	36	30 3/8	1/2	7/8	350	6104.00
KXSA030M6	ERFA-031E	16400	30000	21.3	15.5	7.3	-	30	47	33	1/2	7/8	410	7130.00

R404A Semi-Hermetic KXS-Line Low Temperature

MODEL	COMPRESSOR	BTUH @ 95°F Amb.	BTUH @ 95 f Amb	MINIMUM CIRCUIT AM-PACITY				DIMENSIONS In.			CONNECTIONS		AP-PROX. SHIP WEIGHT Lbs.	List Price 208/1
		-10°F SST	-20 F SST	208-230/1	208-230/3	460/3/60	575-3	High	Wide	Deep	LIQUID	SUCTION		
KXSA005L6	KANB-005E	2750	1910	4.5	2.8	-	-	16 1/2	25	30 3/8	3/8	1/2	220	4459.00
KXSA008L6	KAMB-007E	4550	3320	7.0	4.0	-	-	16 1/2	25	30 3/8	3/8	5/8	240	4587.00
KXSA010L6	KAJB-010E	6010	4480	8.6	5.8	-	-	16 1/2	25	30 3/8	3/8	7/8	260	4720.00
KXSA015L6	KALB-015E	8950	6700	12.4	8.3	4.3	-	16 1/2	25	30 3/8	3/8	7/8	280	5099.00
KXSA020L6	EADB-021E	10300	7480	12.5	8.5	-	-	16 1/2	25	30 3/8	3/8	7/8	350	6423.00
KXSA021L6	EAVB-021E	11800	8810	18.4	9.3	4.9	3.9	19	36	30 3/8	1/2	7/8	350	6487.00
KXSA030L6	LAHA-032E	18900	13600	20.9	16.0	7.5	5.1	19	36	30 3/8	1/2	1 1/8	420	7504.00
KXSA032L6	LACA-032E	NA	17200	19.4	16.0	7.5	-	30	47	33	1/2	1 1/8	420	7807.00

Outdoor Condensing Units

RDI

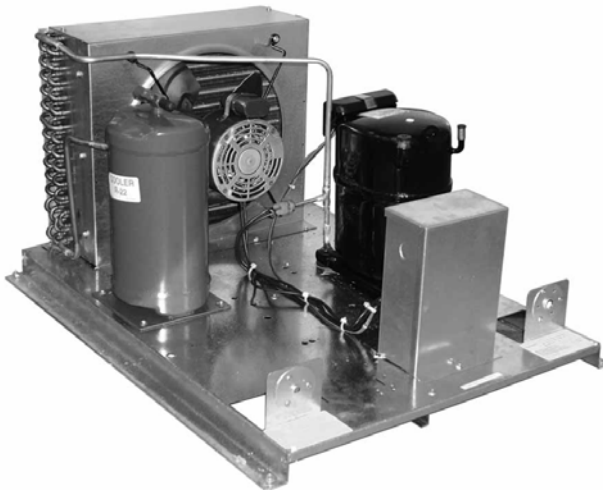


Outdoor Units

The RDI " PR " systems is designed to allow for remote location of the condensing unit in applications where pre-charged lines would be difficult to run or the distance between the evaporator and the condensing unit is too great for pre-charged lines. All components are installed and wired, but the system contains only a holding charge of dry nitrogen. Installation involves securing the evaporator assembly on the interior of the walk-in and the condensing unit in a suitable location. Refrigerant lines must be run between the evaporator and the condensing unit. The system must be leak checked, evacuated and charged with refrigerant. On low temperature systems the time clock is shipped loose and is to be field installed in a convenient location outside the walk-in.

Standard Installed Components include

- Heated Insulated Receiver
- Head Pressure Flood Valve
- Sight Glass
- Pressure Control
- Weatherproof Housing
- Drier
- Crankcase Heater
- Suction Accumulator (Low Temp Only)



Weatherproof housing included





RDI

Outdoor Condensing Units

Hermetic Medium Temp R-22

Model Indoor	HP	BTU/HR +35F	Evap Mtr Amps	High Side Amps				Pumpdown Cap. 90% Full(lbs)
				115/1/60	208-230/1/60	208-230/3/60	460/3/60	
PR45M	1/2	5080	1.8	13.2	6.6	-	-	3.2
PR70M	3/4	7175	1.8	14.7	6.0	-	-	6.0
PR95M	1	9545	3.6	-	8.3	5.3	-	10.0
PR145M	1 1/2	11840	3.6	-	12.2	10.7	4.8	10.0
PR195M	2	16115	5.4	-	15.8	11.1	6.0	14.0
PR295M	3	23840	7.2	-	20.9	13.5	9.0	14.0
PR395M	4	35750	10.8	-	32.0	21.0	10.9	19.2
PR495M	5	41645	10.8	-	37.5	24.6	11.5	19.2

Hermetic Medium Temp R-22 Pricing

Model Indoor	Voltage	Voltage	Voltage
	115/1/60	208-230/1/60	208-230/3/60
	List	List	List
PR45M	2604.00	2542.00	N/A
PR70M	2642.00	2580.00	N/A
PR95M	N/A	2756.00	2842.00
PR145M	N/A	2938.00	3026.00
PR195M	N/A	3526.00	3614.00
PR295M	N/A	3936.00	4026.00
PR395M	N/A	4786.00	4874.00
PR495M	N/A	5160.00	5248.00

Electrician must bring power to both high and low sides.

WHILE QUANTITIES LAST
R22 MODELS HAVE BEEN DISCONTINUED

Outdoor Condensing Units

RDI



Hermetic Medium Temp R404A

Model Indoor	HP	BTU/HR +35F	Evap Mtr Amps	High Side Amps				Pumpdown Cap. 90% Full(lbs)
				115/1/60	208-230/1/60	208-230/3/60	460/3/60	
PR49M	1/2	4865	1.8	10.9	5.9	-	-	4.3
PR69M	3/4	7260	1.8	15.3	7.8	-	-	7.2
PR99M	1	9730	3.6	-	9.8	7.5	-	12.8
PR149M	1 1/2	12830	3.6	-	12.2	8.8	-	9.0
PR199M	2	17000	5.4	-	12.8	9.4	-	14.3
PR299M	3	24585	7.2	-	21.4	15.8	7.0	16.3
PR349M	3.5	27870	9.0	-	24.0	16.8	7.8	16.3
PR399M	4	38030	10.8	-	27.1	18.5	10.4	27.3
PR499M	5	44175	10.8	-	33.7	21.7	11.7	27.3

Hermetic Medium Temp R-404A Pricing

Model Outdoor	Voltage	Voltage	Voltage
	115/1/60	208-230/1/60	208-230/3/60
	List	List	List
PR49M	2754.00	2692.00	N/A
PR69M	2792.00	2730.00	N/A
PR99M	N/A	2904.00	2994.00
PR149M	N/A	3088.00	3176.00
PR199M	N/A	3676.00	3764.00
PR299M	N/A	4088.00	4176.00
PR349M	N/A	4936.00	5022.00
PR399M	N/A	5392.00	5480.00
PR499M	N/A	6142.00	6228.00



RDI

Outdoor Condensing Units

Hermetic Low Temp R404A

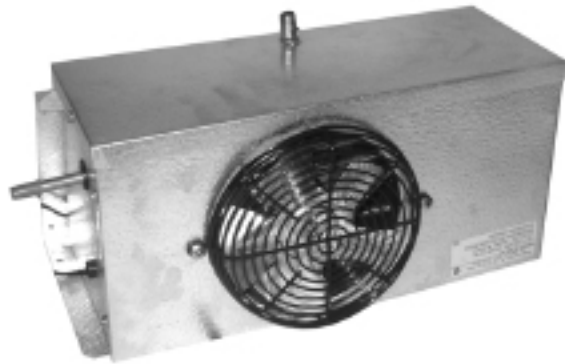
Model Indoor	HP	BTU/HR 0 F	Evap Mtr Amps	High Side Amps			Pumpdown Cap. 90% Full(lbs)
				208/230/60-1	208/230/60-3	460/60-3	
PR69L	3/4	3925	1.0	9.1	-	-	2.6
PR99L	1	4675	1.0	7.7	4.7	-	5.4
PR149L	1 1/2	7465	2.0	9.7	7.1	-	9.0
PR199L	2	9325	2.0	12.8	8.8	-	9.0
PR249L	2 1/2	11195	2.0	13.8	9.8	-	12.6
PR299L	3	14960	3.0	21.4	14.3	-	12.6
PR399L	4	18550	4.0	33.7	21.7	-	27.3

Hermetic Low Temp R-404A Pricing

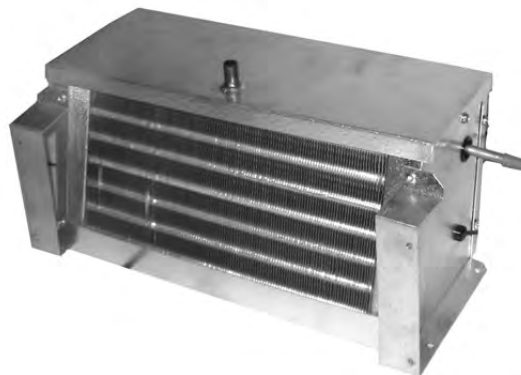
Model Indoor	Voltage 115/1/60	Voltage 208-230/1/60	Voltage 208-230/3/60
	List	List	List
PR69LOP	N/A	3032.00	N/A
PR99LOP	N/A	3204.00	3292.00
PR149LOP	N/A	3256.00	3344.00
PR199LOP	N/A	3474.00	3560.00
PR249LOP	N/A	4044.00	4132.00
PR299LOP	N/A	4322.00	4410.00

Series: MA-7, MA-9 MA-11, MA-14
Compact Model With Back Air Discharge

Applications: In any type of refrigerator working at high and medium temperature above 34°F, 1°C, For R-12, R22, R-502, R-134a



Model	Capacity BTU/H 10: F Δ T	Motor Data		Unit Size				Connections		List Price
		Qty	Amp	A	B	C	D	Liquid	Suction	
MA-7	724	1	0.45	6.25"	7.75"	13.75"	3.5"	1/2 FN	3/8"	306.00
MA-9	948	1	0.45	7"	7.81"	13.75"	4.25"	1/2 FN	3/8"	308.00
MA-11	1122	1	0.45	7.75"	7.87"	13.75"	5"	1/2 FN	3/8"	350.00
MA-14	1395	1	0.45	7.75"	7.87"	13.75"	5"	1/2 FN	3/8"	410.00



Notes





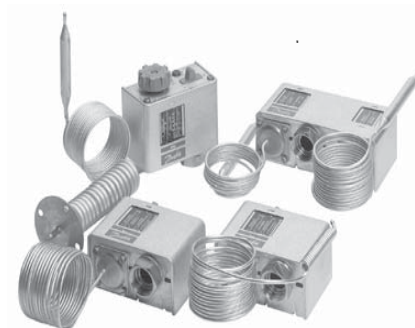
*Commercial Refrigeration
Industries we serve:
Ice machines
Ice cream machines
Frozen beverage
Restaurant equipment
Compressed air driers
Vending
Glass door merchandisers
Transport refrigeration
Water coolers
Walk-ins / cold rooms
Electronic cooling
Beer/Wine coolers
Process chillers
Lab/Medical equipment
Pool heaters
Condensing units*

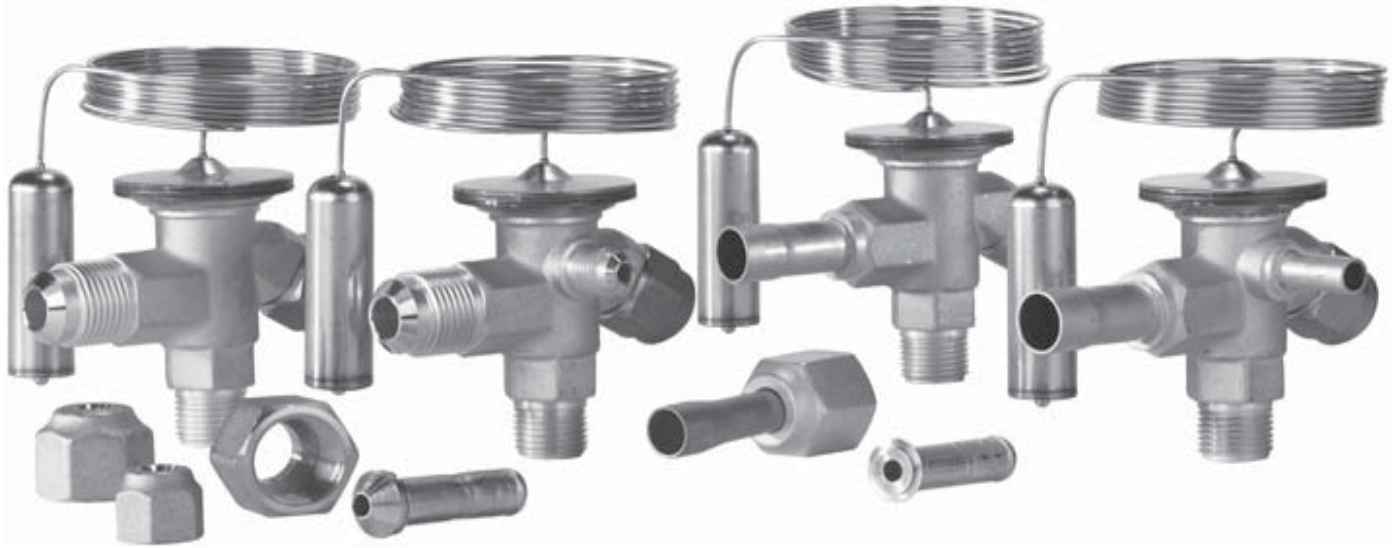
Danfoss has achieved a leadership position in the field of commercial refrigeration by continuously providing innovative components that are energy efficient and environmentally responsible, especially when it comes to the use of refrigerants.

As such, we offer a full range of robust components that are engineered to deliver the best value over the longest period of time for all our off the shelf Danfoss products and parts used by refrigeration contractors.

Maximum quality. Minimum cost of ownership.

More and more, companies are concerned with the long-term serviceability of their equipment. Danfoss does its part by engineering components that are durable and easy to service – all of which translates into reduced costs for our customers.





Thermostatic expansion valves regulate the injection of refrigerant liquid into evaporators. Injection is controlled by the refrigerant superheat. Therefore the valves are especially suitable for

liquid injection in "dry" evaporators where the superheat at the evaporator outlet is proportional to the evaporator load.

Large temperature range
Equally applicable to freezing, refrigeration and air conditioning applications.
Interchangeable orifice assembly
– easier stocking
– easy capacity matching
– better service.
Rated capacities from 0.5 to 15.5 kW (0.15 to 4.5 TR) for R22.
Can be supplied with MOP (Max. Operating Pressure)
Protects the compressor motor against excessive evaporating pressure during normal operation.
Stainless steel bulb
Fast and easy to install.
Good temperature transfer from pipe to bulb.
Valves for special temperature ranges can be supplied.

Max. temperature
Bulb, when valve is installed: 100°C
Bulb, element not mounted: 60°C
Min. temperature
T 2 TE 2: -60°C
Max. test pressure
PT = 38 bar
Max. working pressure
PS/MWP = 34 bar

T2 Thermostatic Expansion Valves



T2 / TE2: reliable and easy to use

Thermostatic expansion valves regulate the injection of liquid refrigerant into evaporators. Injection is controlled by the refrigerant superheat. Therefore the valves are especially suitable for liquid injection in "dry" evaporators where the superheat at the evaporator outlet is proportional to the evaporator load.

Flare X Flare 3/8" inlet X 1/2" outlet valve body and thermostatic element with 5ft. cap. tube and bulb strap (without orifice and filter)

Refrig.	Valve Type	Press. Equal	Range N -40°F to +50°F	List Price
			w/o MOP	
R 22	TX 2	Int.	068Z3206	97.00
	TEX 2	Ext. 1/4"	068Z3209	127.00
R 134a	TN 2	Int.	068Z3346	97.00
	TEN 2	Ext. 1/4"	068Z3348	127.00
R 404a	TS 2	Int.	068Z3400	97.00
R 507	TES 2	Ext. 1/4"	068Z3403	127.00



Flare X Solder 3/8" inlet X 1/2" outlet valve body and thermostatic element with 5ft. cap. tube and bulb strap (without orifice and filter)

Refrig.	Valve Type	Press. Equal	Range N -40°F to +50°F	List Price
			w/o MOP	
R 22	TX 2	Int.	068Z3281	99.00
	TEX 2	Ext. 1/4"	068Z3284	130.00
R 134a	TN 2	Int.	068Z3383	99.00
	TEN 2	Ext. 1/4"	068Z3385	130.00
R 404a	TS 2	Int.	068Z3414	99.00
R 507	TES 2	Ext. 1/4"	068Z3415	130.00

Orifices for all T2 Series Expansion Valves Orifice assembly with filter

Orifice No.	Rated capacity in Tons			Range N: -40° F to +50°F		Flare Inlet Code No.	List Price
	R 22	R 134a	R 404a / R 507	R 12	R 502		
0X	0.15	0.11	0.11	-	-	068-2002	17.00
00	0.30	0.25	0.21	0.20	0.20	068-2003	17.00
01	0.70	0.50	0.45	0.30	0.30	068-2010	17.00
02	1.00	0.80	0.60	0.50	0.50	068-2015	17.00
03	1.50	1.30	1.20	1.00	1.00	068-2006	17.00
04	2.30	1.90	1.70	1.50	1.50	068-2007	17.00
05	3.00	2.50	2.20	2.00	2.00	068-2008	17.00
06	4.50	3.00	2.60	3.00	3.00	068-2009	17.00

• rated capacity is based on: Evaporating temp. $t_e = +40^\circ\text{F}$ (Range N), -20°F (Range B)
 Condensing temp. $t_c = +90^\circ\text{F}$
 Liquid temp. ahead of valve $t_l = +80^\circ\text{F}$



TUA Thermostatic Expansion Valves Stainless Steel

Danfoss now extends the new program of stainless steel thermostatic expansion valves. Type TUA/TUAE is available with interchangeable orifice assembly and removable strainer in a straightway design. The valves are offered in rated capacities up to 4.5 TR (R22) and can be used in a wide range of applications:

Conventional refrigeration systems
Heat pump systems
Air conditioning systems
Specialty refrigeration appliances
Liquid chillers
Ice machines
Transport refrigeration

Solder X Solder Straightway valve body and thermostatic element with 59" cap. tube and bulb strap (without orifice)

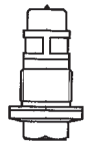


Refrig.	Valve Type	Press. Equal	Connection Inlet x Outlet	Range N -40°F to +50°F	List Price
				w/o MOP	
R 22	TUA	Int.	3/8 x 1/2	068U2235	99.00
	TUA E	Ext. 1/4"	3/8 x 1/2	068U2237	112.00
R 134a	TUA	Int.	3/8 x 1/2	068U2205	99.00
	TUA E	Ext. 1/4"	3/8 x 1/2	068U2207	112.00
R 404a R 507	TUA	Int.	3/8 x 1/2	068U2285	99.00
	TUE E	Ext. 1/4"	3/8 x 1/2	068U2287	112.00

Orifices for all TUA Series Expansion Valves Orifice assembly with filter and gasket

Orifice No.	Rated Capacity in tons (TR) According to ARI 750-94				Code No	List Price
	Range N: -40°F to +50°F					
	R 22	R 134a	R404A/R507	R407C		
00	0.17	0.13	0.13	0.18	068U1030	35.00
01	0.25	0.19	0.19	0.26	068U1031	35.00
02	0.36	0.28	0.287	0.38	068U1032	35.00
03	0.50	0.39	0.39	0.53	068U1033	35.00
04	0.75	0.59	0.60	0.80	068U1034	35.00
05	1.00	0.78	0.79	1.10	068U1035	35.00
06	1.50	1.20	1.20	1.60	068U1036	35.00
07	2.00	1.60	1.60	2.10	068U1037	35.00
08	3.00	2.30	2.40	3.20	068U1038	35.00
09	4.50	3.50	3.50	4.80	068U1039	35.00

• TUA / TUAE valves with orifice # 09 cannot be used for bi-flow operation



TUB Thermostatic Expansion Valves



Spare Parts and Accessories

Description	Part No.	Net Price	List Price
Gasket	068U0015	3.20	5.00

Solder X Solder Angleway valve body and thermostatic element with 31" cap tube and bulb strap.

Press Equal.	Press. Equal.	Orifice No.	R 22			R 134A			R 404A / R 507		
			Range N -40°F to +50°F			Range N -40°F to +50°F			Range N -40°F to +50°F		
			Nominal Capacity TR*	1/4 x 1/2	3/8 x 1/2	Nominal Capacity TR*	1/4 x 1/2	3/8 x 1/2	Nominal Capacity TR*	1/4 x 1/2	3/8 x 1/2
TUB	Int.	00	0.17	-	068U2156	-	-	-	-	-	-
		01	0.25	068U2057	068U2157	0.19	068U2027	068U2117	0.19	068U2094	068U2129
		02	0.36	068U2058	068U2179	0.28	068U2028	068U2118	0.28	068U2095	068U2130
		03	0.50	068U2059	068U2180	0.39	068U2029	068U2119	0.39	068U2096	068U2131
		04	0.75	068U2060	068U2183	0.59	068U2030	068U2120	0.59	068U2097	068U2132
		05	1.00	068U2061	068U2181	0.78	068U2031	068U2121	0.78	068U2098	068U2133
		06	1.50	068U0262	068U2182	1.20	068U2032	068U2122	1.20	068U2099	068U2134
		07	2.00	-	068U206.3	1.60	-	068U2033	1.60	-	068U2100
		08	3.00	-	068U2064	2.30	-	068U2034	2.30	-	068U2101
		09	4.50	-	-	3.50	-	068U2035	3.50	-	068U2102
TUBE	1/4" ODF Ext.	00	0.17	-	068U2158	-	-	-	-	-	
		01	0.25	-	068U2159	0.19	-	-	0.19	068U2103	068U2135
		02	0.36	-	068U2160	0.28	-	068U2124	0.28	068U2104	-
		03	0.50	-	068U2161	0.39	068U2020	068U2125	0.39	068U2105	068U2137
		04	0.75	068U2070	068U2162	0.59	068U2021	068U2126	0.59	068U2106	068U2138
		05	1.00	068U2071	068U2163	0.78	068U2022	068U2127	0.78	068U2107	068U2139
		06	1.50	068U2072	068U2164	1.20	068U2023	068U2128	1.20	068U2108	068U2185
		07	2.00	-	068U2073	1.60	-	068U2024	1.60	-	068U2109
		08	3.00	-	068U2074	2.30	-	068U2025	2.30	-	068U2110
		09	4.50	-	068U2075	3.50	-	068U2026	3.50	-	068U2111

* TUB / TUBE valves with orifice #09 can not be used for bi-flow operation.

*Rated Capacity in tons (TR) According to ARI 750-94

TCBE Thermostatic Expansion Valves

Solder X Solder Straightway valve body and thermostatic element with bulb strap. 35" capillary tube



Refrig.	Valve type	Press Equal	Nominal Capacity TR*	Connection Inlet x Outlet	Range N -40°F to 50°F	
					w/ o MOP	MOP 60°F
R 22	TCBE	Ext. 1/4"	5	3/8 x 5/8	068U4200	068U4204
			5	1/2 x 5/8	068U4201	068U4205
			6	1/2 x 5/8	068U4202	068U4206
			7.5	1/2 x 5/8	068U4203	068U4207
R 134a	TCBE	Ext. 1/4"	3.5	3/8 x 5/8	068U4216	068U4220
			3.5	1/2 x 5/8	068U4217	068U4221
			4.1	1/2 x 5/8	068U4218	068U4222
			5.2	1/2 x 5/8	068U4219	068U4223

*Rated capacity in tons (TR) BASED ON:

Evaporating Temp. = 40°F
 Condensing Temp. = 90°F
 Liquid Temp. = 80°F

* TC valves with orifice number cannot be used for bi-flow operation



TDE Thermostatic Expansion Valves

Solder X Solder Angleway valve body and thermostatic element with bulb strap.

Valve Type and Rated Capacity	Connection Solder ODF x ODF	Cap. Tube Length (ft.)	R 22		Box Qty.	List Price
			Range N -40°F to +50°F	Range N -15°F to +50°F		
			w/ o MOP	MOP 100°F		
TDEX 3	3/8 x 5/8	5	068H7050	068H6200	8	CALL
TDEX 3	1/2 x 5/8	5	068H7052	068H6201		
TDEX 4	1/2 x 5/8	5	068H7054	068H6202		
TDEX 6	1/2 x 5/8	5	068H7056	068H6234		
TDEX 6	1/2 x 5/8	5	068H7058	068H6203		
TDEX 6	5/8 x 7/8	5	068H7060	068H6204		
TDEX 7.5	5/8 x 7/8	5	068H7062	068H6205		

TDEX 3 - 7.5 Single Port



Valve Type and Rated Capacity	Connection Solder ODF x ODF	Cap. Tube Length (ft.)	R 22		Box Qty.	List Price
			Range N -40°F to +50°F	Range K -15°F to +50°F		
			w/ o MOP	MOP 60°F		
TDEBX 8	5/8 x 7/8	5	068U7050	068H7130	8	CALL
TDEBX 11	5/8 x 7/8	5	068H7066	068H7132		
TDEBX 11	5/8 x 1 1/8	5	068H7068	068H7134		
TDEBX 12.5	5/8 x 7/8	5	068H7070	068H7136		
TDEBX 12.5	5/8 x 1 1/8	5	068H7072	068H7138		
TDEBX16	5/8 x 1/18	5	068H7074	068H7140		
TDEBX 16	7/8 x 1 1/8	5	068H7076	068H7142		
TDEBX 19	7/8 x 1 1/8	5	068H7078	068H7144	6	CALL
TDEBX 20	7/8 x 1 1/8	10	068H7080	068H7146		
TDEBX 26	7/8 x 1 3/8	10	068H7082	068H7148		
TDEBX 30	7/8 x 1 3/8	10	068H7084	068H7150		
TDEBX 30	1 1/8 x 1 3/8	10	068H7086	068H7152		
TDEBX 40	1 1/8 x 1 3/8	10	068H7088	068H7154		

TDEBX 8 - 40 Balanced Port

• Valves are available for R 407C.

• rated capacity is based on:

t_e = +40°F evaporating temperature

t_c = +90°F condensing temperature

t_l = +80°F liquid temperature

TRE Thermostatic Expansion Valves

Solder X Solder

Angleway valve body and thermostatic element with bulb strap. 5ft. capillary tube.

Two-way balance port / bi-flow function. Pressure Equalization: 1/4" ODF.

Refrig	Valve Type and Rated Capacity (TR)*	Connection Solder ODF x ODF	Range K -15°F to +50°F	Box Qty.	List Price
			MOP 60°F		
R 22	TRE10-8X	5/8 X 7/8	067L1021	12	CALL
	TRE10-10X	5/8 X 7/8	067L1024		
	TRE20-10X	5/8 X 7/8	067L1075	8	
	TRE20-12.5X	5/8 X 7/8	067L1079		
	TRE20-15X	7/8 X 1 1/8	067L1084		
	TRE20-20X	7/8 X 1 1/8	067L1087		
	TRE20-20X	7/8 X 1 3/8	067L1088		
R 134a	TRE10-5N	5/8 X 7/8	067L1003	12	CALL
	TRE10-7N	5/8 X 7/8	067L1006		
	TRE20-7N	5/8 X 7/8	067L1041	8	
	TRE20-9N	5/8 X 7/8	067L1045		
	TRE20-11N	7/8 X 1 1/8	067L1050		
	TRE20-14N	7/8 X 1 1/8	067L1053		
R 410A	TRE20-14N	7/8 X 1 3/8	067L1054	12	CALL
	TRE10-8L	5/8 X 7/8	067L1029		
	TRE10-10L	5/8 X 7/8	067L1031	8	
	TRE20-15L	7/8 X 1 1/8	067L1092		
	TRE20-20L	7/8 X 1 1/8	067L1094		
	TRE20-25L	7/8 X 1 1/8	067L1097		

* The rated capacity is based on ARI Standard 750-97



TE Thermostatic Expansion Valves



TE 5

The TE series expansion valve regulate the injection of refrigerant into evaporators. It controls the refrigerant flow based on the superheat. The exchangeable power element is produced with the well known Danfoss laser technology for extended lifetime capability.



Large operating range:
-60 C to +10°C
Interchangeable orifice assembly
Stainless steel power element, capillary and bulb

Wide capacity range
MOP function is available
Superior charge performance
Patented bulb strap design

Orifice

Orifice Number	Part No.	List Price
01	067B2089	C A L L
02	067B2090	
03	067B2091	
04	067B2092	

Thermostatic Element

Refrig.	Cap. Tube Length Ft.	Type	Range N -40°F to +50°F		Range NM -40°F to +25°F	Range NL -40°F to +5°F	Range B -75°F to -15°F		List Price
			w/o MOP	MOP 60°F	MOP 32°F	MOP 15°F	w/o MOP	MOP -4°F	
R 22	10	TEX5	067B3250	067B3267	067B3249	067B3253	067B3263	067B3251	C A L L
R 134a		TEN5	067B3297	067B3298	067B3360	067B3327	-	-	
R 502		TEY5	067B3257	-	067B3259	067B3261	067B3265	067B3258	
R 404a R 507		TES5	067B3342	-	067B3357	067B3358	067B3344	067B3343	

TE 12

The TE series expansion valve regulate the injection of refrigerant into evaporators. It controls the refrigerant flow based on the superheat. The exchangeable power element is produced with the well known Danfoss laser technology for extended lifetime capability.

Orifice

Orifice Number	Part No.	List Price
01	067B2005	C A L L
02	067B2006	
03	067B2007	
04	067B2008	

Thermostatic Element

Refrig.	Type	Cap. Tube Length Ft.	Range N -40°F to +50°F		Range NM -40°F to +25°F	Range NL -40°F to +5°F	Range B -75°F to -15°F	List Price
			w/o MOP	MOP 60°F	MOP 32°F	MOP 15°F	MOP -4°F	
R 22	TEX12	10	067B3210	067B3227	067B3207	067B3213	067B3211	C A L L
		16	067B3209	-	-	-	067B3212	
R 134a	TEN12	10	067B3232	067B3233	067B3364	067B3365	-	
		16	067B3363	-	-	-	-	
R 502	TEY12	10	067B3218	-	067B3215	067B3221	067B3219	
		16	067B3217	-	-	-	067B3220	
R 404a R 507	TES12	10	067B3347	-	067B3345	067B3348	067B3349	
		16	067B3346	-	-	-	067B3350	

Complete with valve and orifices

Valve Series	Quantity	Connection Type	Service Kit Code No.	Valve Refrigerants	List Price
T2	6	Flare x Flare	Mizer2FL	R 22, R 134a, R 404A/R507	733.00
	6	Flare x Sweat	Mizer2	R 22, R 134a, R 404A/R507	804.00
TUA	6	Sweat x Sweat	MizerTUA	R 22, R 134a, R 404A/R507	886.00

*Each Kit is complete with six valves, two for each refrigerant (one internal, one external)

Service Kit Orifice and Accessory Quantities

Valve Series	Connection Type	Service Kit Code No.	Orifices										
			0X	00	01	02	03	04	05	06	07	08	09
T2	Flare x Flare	Mizer2FL	1	1	1	2	2	1	1	n/a	n/a	n/a	n/a
	Flare x Sweat	Mizer2	1	1	2	2	2	2	1	1	n/a	n/a	n/a
TUA	Sweat x Sweat	MizerTUA	n/a	1	1	1	1	1	1	1	1	1	1



Maximizer Kit Featuring Valves with No-Wrap Technology

Every TEV you need-both flare and sweat-in one convenient kit. Ideal for after hours service calls.

- No more recalls for unstocked valves on service calls
- Sweat valves have “no-wrap” technology - no wet wrap required
- 12 valves and 20 orifices = 100 size combinations from 1/10 to 4 1/2 TR
- The right valve is always on your truck
- Factory superheat setting - adjustable wrench included
- Sizing and selection chart included
- Durable case

List
\$ 1661.00

Contents

Flare **Sweat**

Product #	Danfoss Code	Product #	Danfoss Code
TX2	068Z3206	TUA R22	068U2235
TEX2	068Z3209	TUAE R22	068U2237
TN2	068Z3346	TUA R134A	068U2205
TEN2	068Z3348	TUAE R134A	068U2207
TS2	068Z3400	TUA R404A/507	068U2285
TES2	068Z3403	TUAE R404A/507	068U2287
TE orif 0X	068-2002	TU orif # 0	068U1030
TE orif 00	068-2003	TU orif # 1	068U1031
TE orif 01	068-2010	TU orif # 2	068U1032
TE orif 02	068-2015	TU orif # 3	068U1033
TE orif 03	068-2006	TU orif # 4	068U1034
TE orif 04	068-2007	TU orif # 5	068U1035
TE orif 05	068-2008	TU orif # 6	068U1036
TE orif 06	068-2009	TU orif # 7	068U1037
TU Metal Gasket	068U0015	TU orif # 8	068U1038
Allen Wrench	WRENCH	TU orif # 9	068U1039

Flare

Sweat

TX2 internal eqln. 068Z3206	TEX2 external eqln. 068Z3209	0X 068-2002	03 068-2006	TUA internal eqln. 068U2235	TUAE external eqln. 068U2237					
TN2 internal eqln. 068Z3346	TEN2 external eqln. 068Z3348	00 068-2003	03 068-2006	TUA internal eqln. 068U2205	TUAE external eqln. 068U2207					
TS2 internal eqln. 068Z3400	TES2 external eqln. 068Z3403	01 068-2010	04 068-2007	TUA internal eqln. 068U2285	TUAE external eqln. 068U2287					
		02 068-2015	05 068-2008							
		02 068-2015	06 068-2009							
Allen Wrench										
0	1	2	3	4	5	6	7	8	9	
068U0015	068U1030	068U1031	068U1032	068U1033	068U1034	068U1035	068U1036	068U1037	068U1038	068U1039



Thermostatic Expansion Valves



Thermostatic expansion valves, type TK 1

- Patented double contact bulb
- Fast and easy to install
- Good temperature transfer from pipe to bulb
- Supplied with fixed superheat setting
- Available with filter at the inlet side
- Version with and without bleed
- Laser-welded stainless steel thermostatic element
- Optimum regulation properties
- Long-life diaphragm
- High compressive strength
- Available with MOP (Max. Operating Pressure)

Facts:

- Rated capacities:
- From 1.1 to 6.8 kW for R 22
- Max. working pressure: 29 bar
- Refrigerants: R 22, R 134a and R 404A (other refrigerants on demand)

Thermostatic expansion valves type TCCE/TCBE

- Available in a number of variants that give countless combination possibilities
- Bimetal connections:
- Waterless brazing
- Quicker installation times
- Higher productivity
- Stainless steel, hermetically tight solder version
- Stainless steel double contact bulb
- Straightforward and fast installation
- Good heat transfer from bulb to pipe
- Stable regulation
- Biflow function
- Available with MOP (Max. Operating Pressure)

Facts:

- Rated capacities:
- From 17.5 to 26.5 kW for R 22
- Max. working pressure: 34 bar (42.5 bar for R 410A)
- Refrigerants: R 22, R 134a, R 404A, R 507, R 407C and R 410A

Thermostatic expansion valves, type TDE/TDEB

- Head pressure independent
- Available with biflow function
- Available with self-cleaning bleed
- Superheat adjustable during operation
- Compact and hermetically tight design
- Laser-welded stainless steel thermostatic element
- Optimum regulation properties
- Long-life diaphragm
- High compressive strength
- Available with MOP (Max. Operating Pressure) and universal cross-ambient charge

Facts:

- Rated capacities:
- From 10.5 to 140 kW for R 22 and R 407C
- Max. working pressure: 28 bar
- Refrigerants: R 22 and R 407C (TDE for R 134a manufactured on request)



Thermostatic expansion valves, type TUB/TUC

- Available in a number of variants that give countless combination possibilities
- Bimetal connections:
- Waterless brazing
- Quicker installation times
- Higher productivity
- Stainless steel, hermetically tight solder version
- Stainless steel double contact bulb
- Straightforward and fast installation
- Good heat transfer from bulb to pipe
- Stable regulation
- Biflow function
- Available with MOP (Max. Operating Pressure)

Facts:

- Rated capacities:
- From 0.6 to 16 kW for R 22
- Max. working pressure: 34 bar (42.5 bar for R 410A)
- Refrigerants: R 22, R 134a, R 404A, R 507, R 407C and R 410A

Thermostatic expansion valves, type TRE

- Bimetal connections:
- Waterless brazing
- Quicker installation times
- Higher productivity
- Laser-welded power element
- Long-life diaphragm
- High pressure tolerance and working pressure
- Stainless steel power element, capillary tube and bulb
- Two-way balanced port / biflow function
- Superheat unaffected by condensing pressure irrespective of flow direction
- One valve for heat pump service
- Available with MOP (Max. Operating Pressure) and universal cross-ambient charge

Facts:

- Rated capacities: From 28 to 245 kW for R 22
- Max. working pressure: 42 bar
- Refrigerants: R 22, R 134a, R 404A, R 507, R 407C and R 410A



EVR Solenoid Valves



Danfoss solenoid valves
Danfoss supplies a complete range of solenoid valves for refrigeration and air conditioning purposes.

EVR

features:

- Complete range of valves
- For liquid, gas and suction lines
- For HCFC, CFC, HFC refrigerants
- Designed for wide temperature range
- Available as normally closed (NC) as well as normally open (NO)
- Available with manual operation
- Available with oversize connections

Type:

two-way valves for use with all types of fluorinated refrigerants in liquid, suction and hot gas lines

Connections:

- Solder connections 1/4" - 21/8"
- Flare connections 1/4" - 5/8"
- Flange connections 1/2" - 11/8"



Normally Closed Valve Body Without Manual Stem

Type	Conn In.	Port Size In.	Code	List Price
			Solder ODF	
EVR 2	1/4	3/32	032F7100	CALL FOR PRICING
EVR 3	1/4	1/8	032F7105	
	3/8	1/8	032F71157	
EVR 4	3/8	5/32	032F7110	
	1/2	5/32	032F7111	
EVR 6	3/8	15/64	032F7115	
	1/2	15/64	032F1162	
	5/8	15/64	032F7117	
EVR 8	3/8	9/32	032F7120	
	1/2	9/32	032F7121	
	5/8	9/32	032F7122	
EVR 10	3/8	3/8	032F7125	
	1/2	3/8	032F1166	
	5/8	3/8	032F1168	
EVR 15	5/8	9/16	032F1171	
	7/8	9/16	032F7130	
EVR 18	7/8	19/32	032F7135	
	1 1/8	19/32	032F7136	
EVR 20	7/8	7/8	032F1176	
	1 1/8	7/8	032F1178	
EVR 22	1 1/8	9/16	032F7145	
	1 3/8	9/16	032F7146	
EVR 25	1 1/8	1	032F1189	
	1 3/8	1	032F1193	
EVR 32	1 3/8	7/8	042H1176	
	1 5/8	7/8	042H1178	
	2 1/8	7/8	042H1180	
EVR 40	1 5/8	1	042H1185	
	2 1/8	1	042H1187	

General Purpose Coil, type GP

Voltage +10°F to -15% V	Code No.		List Price
	Frequency Hz	Junction Box	
24	50 / 60	018F7683	
110	50 / 60	018F7682	52.00
120	60		
208 / 240	60	018F7681	52.00
230	50		

Condensing pressure regulator systems, types KVR+KVD

Both systems are used to maintain a constant and sufficiently high condenser and receiver pressure in air-cooled condensers at low ambient temperature.

Both systems maintain the minimum required pressure differential across the thermostatic expansion valve at low ambient or in low load conditions and give problem-free operation. In this way the required room temperature can be ensured.



KVR Condenser Pressure Regulators

Type	Conn. In.	Code No.	Rated capacity tons				List
			R22	R134a	R404a,R507	R407c	
KVR 12	1/2	034L0043	1.2	0.8	1.0	1.1	155.00
KVR 15	5/8	034L0049	1.2	0.8	1.0	1.1	155.00
KVR 22	7/8	034L0045	1.2	0.8	1.0	1.1	168.00
KVR 28	1 1/8	034L0046	4.1	2.6	3.4	3.8	-
KVR 35	1 3/8	034L0052	4.1	2.6	3.4	3.8	-

KVD Receiver Pressure Regulators

Type	Conn.In	Code		List
		Flare	Solder	
KVD 12	1/2	034L0171	034L0173	-
KVD 15	5/8	034L0172	034L0177	-



Limits the maximum crankcase pressure. KVL controls the suction pressure during start

and at high load conditions and thereby protects the compressor motor against overload. Using a KVL prevents the suction pressure

from becoming too high and overloading the compressor motor, with subsequent cut-out by the motor protection device.

KVL Crankcase Pressure Regulators

Type	Conn. In.	Code No.	Rated Liquid capacity tons				List
			R22	R134a	R404a,R507	R407c	
KVL 12	1/2	034L0093	12.7	11.8	8.2	13.8	164.00
KVL 15	5/8	034L0097	12.7	11.8	8.2	13.8	164.00
KVL 22	7/8	034L0094	12.7	11.8	8.2	13.8	170.00
KVL 28	1 1/8	034L0095	32.6	30.2	20.9	35.5	-
KVL 35	1 3/8	034L0100	32.6	30.2	20.9	35.5	-

Evaporating pressure regulator, type KVP

Controls the evaporating pressure and the surface temperature on the evaporator independent of small load variations. The temperature differential between the air and evaporator temperature is minimized. Food is thus kept at the highest possible quality level by minimizing dehydration and weight losses.

The benefit is longer storage time and reduced food spoilation.



KVP Evaporating Pressure Regulators

Type	Conn. In.	Code No.	Rated capacity tons				List
			R22	R134a	R404a,R507	R407c	
KVP 12	1/2	034L0023	1.3	0.9	1.2	1.2	179.00
KVP 15	5/8	034L0029	1.3	0.9	1.2	1.2	179.00
KVP 22	7/8	034L0025	1.3	0.9	1.2	1.2	179.00
KVP 28	1 1/8	034L0026	2.8	1.9	2.4	2.6	-
KVP 35	1 3/8	034L0032	2.8	1.9	2.4	2.6	-

Capacity regulator (hot-gas bypass), type KVC

Adapts the compressor capacity on single or multi evaporator installations to the actual evaporator load through a bypass from the high-pressure side to the suction side. This bypass capacity in the form of hot gas/cool gas prevents the suction pressure from becoming too low so avoiding coarse on-off temperature control of the plant.

The benefit is more accurate temperature control of the refrigeration system. A liquid injection valve and a solenoid valve are

often used in combination with this hot-gas bypass valve to avoid too high compressor discharge gas temperatures



KVC Capacity Pressure Regulators

Type	Conn. In.	Code No.	Rated capacity tons				List
			R22	R134a	R404a,R507	R407c	
KVC 12	1/2	034L0143	2.14	1.36	2.02	2.31	-
KVC 15	5/8	034L0147	4.17	2.65	3.93	4.50	-
KVC 22	7/8	034L0144	5.35	3.41	5.04	5.78	-

Servo-operated capacity regulator (hot-gas bypass), type CPCE and LG

Adapts the compressor capacity to the actual evaporator load. The capacity regulator bypasses from the high-pressure side to the low-pressure side, injecting hot gas between evaporator and thermostatic expansion valve through the liquid gas mixer (LG).

The CPCE is a servo-operated valve. This gives the advantage of a very accurate evaporator temperature independent of the load. The system runs 100% of the time and the coarse on-off temperature control is avoided.

This way of controlling the capacity on a refrigeration system is often used where an accurate temperature is required in order to keep the highest food product quality independent of the load conditions.



CPCE Hot Gas Bypass Pressure Regulators

Type	Conn. In.	Code No.	Rated capacity tons				Price
			R22	R134a	R404a,R507	R407c	
CPCE 12	1/2	034N0081	6.2	4.3	6.3	6.7	-
CPCE 12	1/2	034N0082	6.2	4.3	6.3	6.7	-
CPCE 15	5/8	034N0083	9.2	6.3	9.1	9.9	-
CPCE 22	7/8	034N0084	12.2	8.4	12.1	13.2	-



Pressure Controls

MP 54 and MP 55 oil differential pressure controls are used as safety switches to protect refrigeration compressors against low lubricating oil pressure. If the oil pressure falls the oil differential pressure control stops the compressor after a certain time period. MP 54 and 55 are used in refrigerating systems using fluorinated refrigerants. MP 55A is used in refrigerating systems with R717 (NH₃). MP 55A can also be used in systems with fluorinated refrigerant. MP 54 has a fixed differential pressure setting. It also incorporates a thermal time relay with a fixed release time setting. MP 55 and 55A have adjustable differential pressure and are available both with and without thermal time relay.



MP Series Lube Oil Protection Controls

Type	Diff. Psi	Delay Seconds	Code. No			List Price
			1/4" flare	36" cap. tube	88" cap tube	
MP 54	fixed 6	45	060B2008			CALL FOR PRICING
	fixed 6	45		060B2050		
	fixed 6	45			060B2058	
	fixed 6	60		060B2059		
	fixed 9	60	060B2001			
	fixed 9	60		060B2051		
	fixed 9	90	060B2002			
	fixed 9	120	060B2003			
MP 55	4.3 to 64	45		060B2054		
	4.3 to 64	60	060B2012			
	4.3 to 64	90	060B2006			
	4.3 to 64	60		060B2056		
	4.3 to 64	120	060B2007			
	4.3 to 64	120		060B2057		

KPU Pressure Controls

Pressure	Control Type	Low Pressure LP		High Pressure HP		Reset		code #		List Price
		Range psig	Diff psi	Range psig	Diff psi	Low Pressure	High Pressure	1/4" male flare	36" cap tube 1/4" fl nut	
Low	KPU 1	6 to 108	10 to 60			auto		060-5231	060-5233	
Low	KPU 1	6 to 108	10 to 60			auto		060-5236		
Low	KPU 1B	28 to 100	10 fixed			man.		060-5232	060-5234	
Low	KPU 2	6 to 73	6 to 30			auto		060-5237	060-5235	
Low	KPU 2	6 to 73	6 to 30			auto		060-5239	060-5240	
Fan Cycling	KPU 5			100 to 465	25 to 85		auto	060-5241	060-5242	
Dual	KPU 15	6 to 108	10 to 60	100 to 465	60 fixed	auto	auto	060-5247	060-5248	
Dual	KPU 15B	6 to 108	10 to 60	100 to 465	60 fixed	auto	man.	060-5249	060-5250	

KPU Pressure Controls

Pressure	Control Type	Low Pressure LP		High Pressure HP		Reset		code #		List Price
		Range psig	Diff psi	Range psig	Diff psi	Low Pressure	High Pressure	1/4" male flare	36" cap tube 1/4" fl nut	
High	KPU 6W			100 to 600	58 to 145		auto	060-5243	060-5245	
High	KPU 6B			100 to 600	60 fixed		man.	060-5244	060-5246	
Dual	KPU 16W	6 to 108	10 to 60	100 to 600	60 fixed	auto	auto	060-5251	060-5252	
Dual	KPU 16B	6 to 108	10 to 60	100 to 600	60 fixed	conv.	conv.	060-5253	060-5254	



Temperature Controls



KPU thermostats are temperature-controlled electrical switches.

All KPU thermostats have a single pole doublethrow (SPDT) changeover switch. The position of the switch depends on the thermostat setting and the bulb temperature. A KPU thermostat can be directly connected to single-phase a.c. motors of up to about 2.7 hp, or installed in the control current circuit of d.c. motors and large a.c. motors.

- Wide regulating range
- Can be used for deep freeze, refrigeration and air conditioning systems
- Welded bellows elements mean increased reliability
- Small dimensions
- Easy to install in refrigerated counters or cold rooms.
- Ultra-short bounce times
- Long operating life.
- Unnecessary cut-in and cut-out of control equipment is avoided.

Ambient temperature
 -40 □ 150°F (175°F for maximum 2 hours).
 Switch
 Single pole changeover switch (SPDT).
 Contact load
 120 V a.c.: 16 FLA, 96 LRA
 240 V a.c.: 8 FLA, 48 LRA
 240 V d.c.: 12 W pilot duty

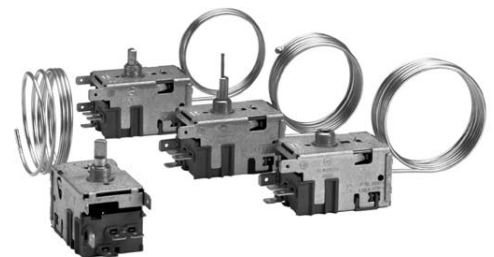


KPU Series

Charge	Type	Differential Δ		Reset	Cap. Tube Length ft.	Code No.	List Price
		at lowest temp. setting °F	at highest temp setting °F				
Vapour	KPU61	8 to 40	2.5 to 13	Auto	6.5	060L5201	
	KPU61	8 to 40	2.5 to 13	Auto	16.5	060L5202	
	KPU61	8 to 40	2.5 to 13	Auto	6.5	060L5203	
	KPU61B	fixed 10	fixed 3.5	Man	6.5	060L5204	
	KPU61B	fixed 10	fixed 3.5	Man	16.5	060L5205	
	KPU62	8 to 40	2.5 to 13	Auto	room sensor	060L5206	
	KPU61	8 to 40	2.5 to 13	Auto	6.5	060L5210	
	KPU63	18 to 125	5 to 15	Auto	6.5	060L5213	
	KPU63	18 to 125	5 to 15	Auto	6.5	060L5214	
	KPU68	8 to 45	3 to 13	Auto	room sensor	060L5215	
Absorption	KPU69	8 to 45	3 to 13	Auto	6.5	060L5217	
	KPU62	9 to 36	3 to 14	Auto	room sensor	060L5207	
	KPU73	6 to 18	5 to 50	Auto	6.5	060L5208	
	KPU73	22 to 125	15 to 45	Auto		606L5209	
	KPU73B	fixed 6	fixed 6	Man		060L5211	
	KPU73	6 to 35	5 to 32	Auto		606L5212	
	KPU71	5.5 to 18	4 to 16	Auto		606L5218	
	KPU71B	fixed 5	fixed 5	Man		606L5216	
	KPU74	9 to 35	9 to 35	Auto		060L5219	
	KPU74B	fixed 10	fixed 10	Man		606L5220	
KPU75	6 to 29	4.5 to 21.5	Auto	060L5221			
KPU75	6 to 30	4.5 to 22	Auto	060L5222			
KPU77	6 to 18	6.3 to 18	Auto	060L5223			

Service Thermostats

Kit No.	Description	Code No.	Price
1	Refrigerators, Single Door	077B7001	50.00
2	Refrigerators / Push Button Defrost	077B7002	57.00
3	Refrigerators / Auto Defrost (Cycle Defrost)	077B7003	62.00
4	Absorption Refrigerators	077B7004	53.00
5	Freezers / Manual Defrost	077B7005	50.00
6	Freezers / Active Signal, Manual Defrost	077B7006	65.00
7	Freezers / Passive Signal, Manual Defrost	077B7007	65.00
8	Bottle / Liquid Coolers	077B7008	50.00



British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

Eliminator® Liquid Line Filter Driers

- High drying capacity avoiding the risk of acid formation in your refrigeration system
- High dirt retention with minimal pressure drop
- Corrosion resistant powder-painted finish.
- Suitable for use in all environments including marine applications

Advantages

- Wide range with sizes from 3 to 75 cubic inches with solder or flare connections
- Moisture adsorption, acid adsorption and dirt retention down to 25 µm particles
- Quality solid cores developed in co-operation with air-conditioning and compressor manufacturers
- Simple and effective drier selection procedure

DML: Solid core (100% molecular sieves) Optimized for HFC with POE and PAG oils. For Extra moisture removal.



Solder Connections

Type	Conn. In.	Code No.	List Price
DML 032 S	1/4	023Z5048	18.00
DML 033 S	3/8	023Z5050	18.00
DML 052 S	1/4	023Z5053	23.00
DML 053 S	3/8	023Z5055	23.00
DML 082 S	1/4	023Z5057	29.00
DML 083 S	3/8	023Z5058	29.00
DML 084 S	1/2	023Z5061	29.00
DML 162 S	1/4	023Z5063	37.00
DML 163 S	3/8	023Z5064	37.00
DML 164 S	1/2	023Z5067	40.00
DML 165 S	5/8	023Z5068	43.00
DML 303 S	3/8	023Z0067	69.00
DML 304 S	1/2	023Z0068	69.00
DML 305 S	5/8	023Z0069	69.00
DML 414 S	1/2	023Z0111	105.00
DML 415 S	5/8	023Z0112	105.00

Flare Connections (DML)

Type	Conn. In.	Code No.	List Price
DML 032	1/4	023Z5035	18.00
DML 033	3/8	023Z5036	
DML 052	1/4	023Z5037	23.00
DML 053	3/8	023Z5038	
DML 082	1/4	023Z5039	29.00
DML 083	3/8	023Z5040	
DML 084	1/2	023Z5041	37.00
DML 162	1/4	023Z5042	
DML 163	3/8	023Z5043	37.00
DML 164	1/2	023Z5044	40.00
DML 165	5/8	023Z5045	43.00
DML 303	3/8	023Z0049	69.00
DML 304	1/2	023Z0050	
DML 305	5/8	023Z0051	105.00
DML 414	1/2	023Z0109	
DML 415	5/8	023Z0110	

System Protection



System Protection

DAS Suction Line Filter Driers

Solid core (70% activated alumina / 30% molecular sieves)
Two Schraeder valves for measuring pressure drop across the filter drier.

Solid core with 70% activated alumina and 30% Molecular Sieve for adsorption of acid and moisture
2 Schraeder access valves to measure pressure drop across the drier
Available in sizes from 8 to 60 cubic inches
Corrosion resistant powder-painted finish
Available with solder (solid copper) and flare connections
UL approved for MWP 500 psig (35 bar)
120 mesh wire mesh provides solid particle retention with minimal pressure drop
Allows installation with any orientation provided the flow is in the arrow direction



Type	In.	Code No.	Price
DAS083SVV	3/8	023Z1003	39.00
DAS084SVV	1/2	023Z1004	40.00
DAS164SVV	1/2	023Z1009	54.00
DAS165SVV	5/8	023Z1010	56.00
DAS166SVV	3/4	023Z1011	60.00
DAS167SVV	7/8	023Z1012	60.00
DAS305SVV	5/8	023Z1013	75.00
DAS307SVV	7/8	023Z1015	90.00
DAS309SVV	1 1/8	023Z1016	96.00
DAS417SVV	7/8	023Z1017	110.00

DMB/DCB Bi-Flow Series

Bi-flow filter driers, type DMB/DCB, are for use in liquid lines on heat pumps.
Bi-flow filter driers have built-in check valves which ensure that refrigerant liquid always flows through the filter driers from the outer side of the filter core towards the center. Thus all dirt particles are retained irrespective of flow direction.

Optimum flow characteristics and dirt retention
The check valves are not sensitive to dirt and give minimum restriction, irrespective of flow direction

Effective dirt removal to 25 µm
No dirt released by reversing the flow direction
Available with solder (Cu-plated steel) and flare connections

Optimized for HFC refrigerants with POE and PAG oils.

Replacement Cores

Solid Cores for DCR Series

Type	Description	Code NO. w / Gasket	List Price
48-DC	80% MS / 20% AA	023U4381	31.00
48-DM	100% MS	023U1392	49.00
48-DA	Burn out	023U5381	60.00
48-F	Particulate Filter	023U1921	46.00

Flare Connection

Type	Conn. In.	Code No.	List Price
DMB 082	1/4	023Z1412	52.00
DMB 083	3/8	023Z1411	
DMB 084	1/2	023Z1410	
DMB 163	3/8	023Z1415	68.00
DMB 164	1/2	023Z1414	

Copper Solder Connection

Type	Conn. In.	Code No.	List Price
DMB 082 s	1/4	023Z1443	52.00
DMB 083 s	3/8	023Z1442	
DMB 084 s	1/2	023Z1441	
DMB 163 s	3/8	023Z1446	68.00
DMB 164 s	1/2	023Z1445	

Copper Flare Connection

Type	Conn. In.	Code No.	List Price
DCB 082	1/4	023Z1402	51.00
DCB 083	3/8	023Z1401	
DCB 084	1/2	023Z1400	
DCB 162	1/4	023Z1406	65.00
DCB 163	3/8	023Z1405	
DCB 164	1/2	023Z1404	
DCB 165	5/8	023Z1403	

Copper Solder Connection

Type	Conn. In.	Code No.	List Price
DCB 082	1/4	023Z1402	51.00
DCB 083	3/8	023Z1401	
DCB 084	1/2	023Z1400	
DCB 162	1/4	023Z1406	65.00
DCB 163	3/8	023Z1405	
DCB 164	1/2	023Z1404	
DCB 165	5/8	023Z1403	



British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

NRV Check Valves

NRV check valves can be used in liquid, suction and hot gas lines in refrigeration and air conditioning systems using fluorinated refrigerants. They allow flow in only one direction and have a built-in damping piston that makes the valve suitable for installation in lines where pulsation can occur. They are available in both angleway and straightway versions.

Features Two versions available

Type NRV: Requires a minimum Δp of 0.6 to 1 psi for 100% flow.

Type NRVH: Includes a stronger spring that requires a minimum Δp of 4.3 psi for 100% flow.

Both straightway and angleway versions
Prevents refrigerant migration from a warm evaporator to a cold evaporator

Built-in damping piston

Suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor.

Oversize connections provide flexibility in use.



Type	Valve Body	Conn. in.	Code	List Price
			Solder	
NRV 6	Straightway	1/4	020-1010	41.00
NRV 10		3/8	020-1011	45.00
NRV 12		1/2	020-1012	49.00
NRV 16		5/8	020-1018	57.00
NRV 19		3/4	020-1019	97.00
NRV 22s	Angleway	7/8	020-1020	126.00

GBC Ball Valves

Flow without pressure drop.

¼ turn from fully open to fully closed valve.

Rotation stop for fully open and fully closed valve.

Ball status indicator on spindle top indicating open or closed position.

Holes for panel mounting.

Bi-directional flow, i.e. valve orientation is unimportant.

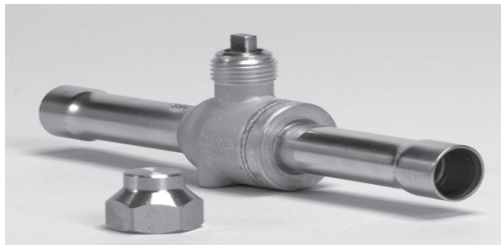
Laser welded construction.

Burst-proof spindle design.

Valve seal of modified PTFE.

Valve design prevents liquids from being trapped internally.

One-piece seal cap for safety purpose – complies with European Safety Directive EN 378*.



GBC Ball Valves (no access port)

Type	Conn. In.	Code No.	List Price
GBC 6s	1/4	009G7020	65.00
GBC 10s	3/8	009G7021	65.00
GBC 12s	1/2	009G7022	69.00
GBC 16s	5/8	009G7023	69.00
GBC 18s	3/4	009G7024	89.00
GBC 22s	7/8	009G7025	89.00
GBC 28s	1 1/8	009G7026	131.00

Type SGN

- For HFC refrigerants
- Indicates too high water content in the refrigeration system
- Indicates lack of subcooling
- Indicates refrigerant deficiency
- Flare/solder connection or socket type



Before choosing a sight glass with moisture indicator, the following should be considered:

- type of refrigerant
- water solubility of refrigerant
- the level on which a danger signal is required.

Be aware that polyester oil for HFC refrigerants, e.g. R134a, R404A, R407C and R410A react with water in a hydrolysis generating acid and alcohol. The recommended levels of moisture content are usually between 30 and 75 ppm, where hermetic compressors only tolerate very low moisture content, while semi-hermetic and other compressors normally tolerate higher moisture contents in the refrigerant.

The color on the sight glass indicator depends on the moisture content of the refrigerant.

The values under "green/dry" are to be considered as perfect condition meaning full protection against harmful effects from moisture. In other words, the filter drier is working perfectly.

If the green color starts to fade, the color change has begun and the indicator should therefore be watched more carefully. If the color changes to yellow it is a clear signal, that the capacity of the filter drier is exceeded and should be replaced as soon as possible.

SGN - Optimized for use with all HCFC and HFC refrigerants.

Type	Connection		Code	Box Qty.	List Price
	in.	Type	SGN		
SGN 6	1/4	Flare int. X ext.	014-0137	24	29.00
SGN 6S	1/4	ODF X ODF	014-0142	24	
SGN 10	3/8	Flare int. X ext.	014-0138	24	30.00
SGN 10S	3/8	ODF X ODF	014-0143	18	
SGN 12	1/2	Flare int. X ext.	014-0139	18	35.00
SGN 12S	1/2	ODF X ODF	014-0144	12	
SGN 16	5/8	Flare ext. X ext.	014-0174	36	38.00
SGN 16S	5/8	ODF X ODF	014-0145	48	
SGN 22S	7/8	ODF X ODF	014-0147	12	61.00

WVO Water Valves

The pressure controlled water valve type WVO is used for regulating the flow of water in refrigeration plant with water-cooled condensers. The water valve gives modulating regulation of the condensing pressure and so keeps it constant during operation. When the refrigeration plant is stopped, the cooling water flow is shut off automatically.

Compact valve

- Setting pressure done by factory (optional)
- For HCFC and HFC refrigerants

NPT threads on request

- Capillary tube available as option



WVO WATER VALVES

Type	Water Connection	Refrigeration Connection	Range ps ig	Code Number	List Price
WVO 10	3/8" NPT	36" cap.tube	90 to 145	033N8052	178.00
WVO 10	3/8" NPT		205 to 260	033N8056	178.00
WVO 15	1/2" NPT		90 to 145	033N8062	214.00
WVO 15	1/2" NPT		205 to 260	033N8066	214.00
WVO 20	3/4" NPT		90 to 145	033N8072	269.00
WVO 20	3/4" NPT		205 to 260	033N8076	269.00

RS Refrigerant Services Inc.

Drop-in Refrigerants

“ RS “ SERIES OF DROP-IN ZERO ODP REFRIGERANTS

Get rid of Ozone Depleting Substances with
the “ RS “ series of A1 Refrigerants

Ensure compliance to ISO 14001

Replaces R12,R22,R502,& all interim
ozone depleting blends

No oil change required
Compatible with all lubricants

	RS-24 (R426A)	RS-44 (R424A)
Replaces	R12,R401A,R405A,R406A R409A,R414A,R414B,R420A	R22 Retrofit

	RS-52 (R428A)
Replaces	R22,R502,R402A R402B,R408A,R411B

RS Refrigerant Services Inc.

RS-24 (R426A)

RS-24 is a non flammable blend of HFC 134a,HFC 125,butane and isopentane which has a zero ODP and is also compatible with both traditional and synthetic lubricants so that a retrofit is not required.RS-24 is a Drop-in alternative for R12 which also provides a long term solution at the same time.There is no need to use synthetic lubricants.The risk of moisture is completely avoided.

Part #	Description	List Price
RS-24	Refrigerant 11.4 KG	548.00

RS-44 (R424A)

RS-44 is a non flammable blend of HFC 125,HFC 134a,butane and isopentane and isobutane which has a zero ODP and is also compatible with both traditional and synthetic lubricants so that a retrofit is not required.RS-44 is a Drop-in alternative for R22 which also provides a long term solution at the same time.There is no need to use synthetic lubricants.The risk of moisture is completely avoided.

Part #	Description	List Price
RS-44	Refrigerant 11.4 KG	634.00

RS-52 (R428A)

RS-52 is a non flammable blend of HFC 125,HFC 134a,propane and isobutane which has a zero ODP and is also compatible with both traditional and synthetic lubricants so that a retrofit is not required.RS-52 is a Drop-in alternative for R502 which also provides a long term solution at the same time.There is no need to use synthetic lubricants.The risk of moisture is completely avoided.

Part #	Description	List Price
RS-52	Refrigerant 10.9 KG	580.00

Gentron® Refrigerants

**Commercial Refrigeration
Long Term Refrigerations**

ASHRAE	Trade Name	Replaces	Type	Lubricant	Applications	Comments	Size kg	List
R-404A 125/143a/13a	HP62	R502,R22 HP80 R408A	Blend HFC low glide	Synthetic poe,pve	New Equipment Retrofits	Most widely used low and medium temperature replacement	10.9	672.00
							45	2700.00
R-507A 125/143a	AZ50	R502,R22 HP80 R408A	Azeotrope HFC no glide	Synthetic poe,pve	New Equipment Retrofits	Slightly higher pressures than R404a Best for flooded systems	11.3	696.00
							45.4	2700.00
R-407C 32/125/143a	407C	R22	Blend HFC High glide	Synthetic poe,pve	New Equipment Retrofits	Reasonable performance match to R22 in medium temp. Lower capacity in low temp	13.2	744.00
							52.2	3236.00
R-134A	134A	R12	Single component fluid HFC	Synthetic poe,pve	New Equipment	Performs well in small hermetic systems	13.6	366.00
							56.7	-

Interm HCFC Based Refrigerants

ASHRAE	Trade Name	Replaces	Type	Lubricant	Applications	Comments	Size kg	List
R-401A 22/152a/124	HP62	R12	Blend HFC/HCFC mod glide	Synthetic poe,pve	New Equipment Retrofits	Most widely used low and medium temperature replacement	10.9	672.00
							45	2700.00
R-401B 22/152a/124	AZ50	R12 R-500	Blend HFC/HCFC mod glide	Synthetic poe,pve	New Equipment Retrofits	Slightly higher pressures than R404a Best for flooded systems	11.3	696.00
							45.4	2700.00
R-409A 22/124/142b	407C	R12 R-500	Blend HCFC High glide	Synthetic poe,pve	New Equipment Retrofits	Reasonable performance match to R22 in medium temp. Lower capacity in low temp	13.2	744.00
							52.2	3236.00
R-402A 125/290/22	134A	R502	Blend HFC/HC/ HCFC	Synthetic poe,pve	New Equipment	Performs well in small hermetic systems	13.6	366.00
							56.7	-
R-408A 125/143a/22	408A	R502	Single component fluid HFC	Synthetic poe,pve	New Equipment	Works well as R-502 substitute. Higher discharge temp than r-502.	10.9	882.00

*** CALL FOR CURRENT PRICING ON R22 ***

Fielding Chemical Technologies

Fielding has been in the business of chemical recycling since 1955 naming us Canada's leader of solvent recycling. Customers can rely on superior product, value and service. To our knowledge we are the first solvent recycler in North America to be registered to ISO 9001 and the first in the world to receive ISO 14001.

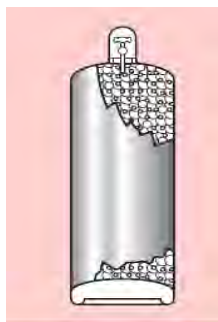


Reclaim Cylinder

Description	List Price
Reclaim Cylinder 23 KG	400.00

Air Liquide

Acetylene



Description	List Price
Acetylene B tank	56.20
Acetylene MC tank	39.20

Nitrogen

Description	List Price
Nitrogen	50.00

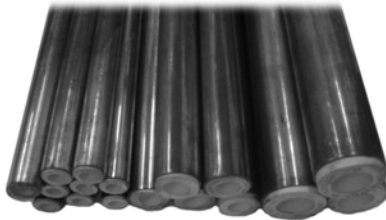


Copper Tubing

Hard and Soft Copper



Nitrogenized ACR Copper Tube



Tube OD	Wall Thickness	Wt. Foot	Length	List
1/4	0.030	0.110	12'	17.72
3/8	0.030	0.128	12"	25.96
1/2	0.035	0.198	12"	39.58
5/8	0.040	0.285	12"	48.14
3/4	0.042	0.362	12"	68.14
7/8	0.045	0.455	12"	75.60
1 1/8	0.050	0.655	12"	109.58
1 3/8	0.055	0.884	12"	146.90
1 5/8	0.060	1.14	12"	188.22
2 1/8	0.070	1.75	12"	296.16
2 5/8	0.080	2.48	12"	441.10



Refrigeration Soft Copper

Tube OD	Wall Thickness	Wt. Foot	FT per roll	List
1/4	0.030	4.02	50	60.04
5/16	0.032	5.45	50	80.68
3/8	0.032	6.70	50	85.58
1/2	0.032	9.10	50	120.80
5/8	0.035	12.55	50	163.88
3/4	0.035	15.25	50	197.10
7/8	0.045	22.75	50	294.08



Solder x Solder x Solder
Style WT-600

Tees

Part no.	OD Solder	List
W 40306	1/4	7.14
W 40313	5/16	8.52
W 4000	3/8	7.56
W 4001	1/2	3.04
W 4006	5/8	2.42
W 4017	3/4	13.18
W 4031	7/8	5.42
W 4048	1/18	15.28
W 4068	1 3/8	20.88
W 4084	1 5/8	32.18
W 40102	2 1/8	50.16



Solder x Solder
Style WC-400

Couplings: Reducing

Part no.	OD Solder	List
W 1004	1/4 x 3/16	6.06
W 1010	3/8 x 5/16	5.72
W 1011	3/8 x 1/4	5.94
W 1019	1/2 x 3/8	1.96
W 1021	1/2 x 1/4	2.62
W 1023	5/8 x 1/2	1.90
W 1025	5/8 x 3/8	2.30
W 1029	3/4 x 5/8	4.64
W 1030	3/4 x 1/2	6.42
W 1035	7/8 x 3/4	3.28
W 1036	7/8 x 5/8	3.24
W 1049	1 1/8 x 7/8	6.12
W 1050	1 1/8 x 3/4	6.80
W 1051	1 1/8 x 5/8	7.09
W 1056	1 3/8 x 1 1/8	8.44
W 1058	1 3/8 x 7/8	8.42
W 1064	1 5/8 x 1 3/8	13.94
W 1065	1 5/8 x 1 1/8	14.46
W 1073	2 1/8 x 1 5/8	22.30
W 1074	2 1/8 x 1 3/8	21.56



Solder x Solder
Style WC-400R

Couplings: Rolled Stop

Part no.	OD Solder	List
W 1003	1/4	1.06
W 1006	5/16	1.26
W 1009	3/8	.92
W 1017	1/2	1.16
W 1022	5/8	.92
W 1028	3/4	2.72
W 1034	7/8	1.82
W 1047	1/18	3.82
W 1055	1 3/8	7.02
W 1063	1 5/8	8.78
W 1072	2 1/8	15.02

Fittings



Solder x M.P.T
Style WC-401

Male Adapters

Part no.	OD Solder	List
W 1113	3/8 x 1/2	9.00
W 1114	3/8 x 3/8	36.08
W 1124	1/2 x 1/2	9.70
W 1125	1/2 x 3/8	6.20
W 1130	5/8 x 3/4	7.34
W 1131	5/8 x 1/2	2.50
W 1145	7/8 x 1	16.42



Solder x Solder
Style WC-407

Couplings: Union

Part no.	OD Solder	List
W 8002	1/2	22.74
W 8003	5/8	13.08
W 8004	7/8	16.44

Reducing Bushings

Part no.	OD Solder	List
W 1306	3/8 x 1/4	2.56
W 1312	1/2 x 3/8	2.64
W 1314	1/2 x 1/4	3.34
W 1315	5/8 x 1/2	2.22
W 1317	5/8 x 3/8	2.50
W 1320	3/4 x 5/8	5.52
W 1321	3/4 x 1/2	5.52
W 1325	7/8 x 3/4	3.28
W 1326	7/8 x 5/8	3.24
W 1327	7/8 x 1/2	4.36
W 1337	1 1/8 x 7/8	5.00
W 1338	1 1/8 x 3/4	7.38
W 1339	1 1/8 x 5/8	6.50
W 1345	1 3/8 x 7/8	9.18
W 1350	1 5/8 x 1 3/8	11.96
W 1351	1 5/8 x 1 1/8	11.96
W 1358	2 1/8 x 1 5/8	22.54
W 1367	2 5/8 x 2 1/8	44.86
W 1368	2 5/8 x 1 5/8	45.80
W 1377	3 1/8 x 2 1/8	56.32



Fitting x Solder
Style WC-401



Style WC-415

Tube Caps

Part no.	OD Solder	List
W 7002	1/4	1.76
W 7004	3/8	1.10
W 7006	1/2	1.76
W 7007	5/8	.88
W 7008	3/4	2.08
W 7009	7/8	1.62
W 7011	1 1/8	3.86
W 7012	1 3/8	5.16
W 7013	1 5/8	7.54
W 7014	2 1/8	13.92



Solder x Solder
Style WE-554P

P Traps

Part no.	OD Solder	List
W 60999	5/8	35.28
W 61008	3/4	53.92
W 61000	7/8	40.24
W 61001	1 1/8	61.14
W 61002	1 3/8	111.16
W 61003	1 5/8	168.78
W 61009	2 1/8	345.52

Fittings / Elbows



Solder x Solder
Style WE-500

Elbow 90 °: Short Radius

Part no.	OD Solder	List
W 2003	1/4	3.60
W 2009	3/8	3.78
W 2017	1/2	3.60
W 2022	5/8	4.02
W 2028	3/4	7.28
W 2034	7/8	7.66
W 2047	1 1/8	9.70
W 2084	1 3/8	10.84

Elbows 90 °: Fitting Short Radius ST

Part no.	OD Solder	List
W 2305	1/4	6.72
W 2312	3/8	6.62
W 2321	1/2	4.58
W 2326	5/8	5.14
W 2330	3/4	7.52
W 2334	7/8	8.52
W 2344	1 1/8	10.04
W 2384	1 3/8	15.22
W 2385	1 5/8	21.96
W 2386	2 1/8	43.80

Elbows 90 °: Long Radius



Fitting x Solder
Style WE-503

Part no.	OD Solder	List
W 2701	3/16	8.00
W 2715	1/4	6.74
W 2710	5/16	6.30
W 2716	3/8	5.18
W 2717	1/2	6.62
W 2722	5/8	5.56
W 2728	3/4	5.68
W 2734	7/8	7.28
W 2747	1 1/8	12.12
W 2055	1 3/8	19.42
W 2063	1 5/8	25.98
W 2072	2 1/8	65.76
W 2082	2 5/8	104.06
W 2092	3 1/8	146.56



Solder x Solder
Style WE-504

Elbows 45 °:

Part no.	OD Solder	List
W 3012	3/8	6.74
W 3021	1/2	5.76
W 3026	5/8	2.20
W 3030	3/4	10.44
W 3034	7/8	3.86
W 3044	1 1/8	9.68
W 3050	1 3/8	13.10
W 3059	2 1/8	26.32



Solder x Solder
Style WE-500L

Elbows 90 °: Fitting Long Radius ST



Fitting x Solder
Style WE-503L

Part no.	OD Solder	List
W 2809	3/8	6.00
W 2817	1/2	11.74
W 2822	5/8	8.20
W 2828	3/4	9.70
W 2834	7/8	9.80
W 2847	1 1/8	16.70
W 2350	1 3/8	24.92
W 2355	1 5/8	35.18
W 2359	2 1/8	57.36



Fitting x Solder
Style WE-505

45 Deg St Elbows

Part no.	OD Solder	List
W 3312	3/8	10.14
W 3321	1/2	7.88
W 3326	5/8	2.64
W 3334	7/8	3.88
W 3355	1 5/8	19.70
W 3359	2 1/8	35.42

Brass Fittings



Flare X Male Pipe Ell

Part No.	Description	List
E1-4A	1/4 x 1/8	5.38
E1-4B	1/4 x 1/4	5.38
E1-4C	1/4 x 3/8	6.78
E1-6A	3/8 x 1/8	5.38
E1-6B	3/8 x 1/4	6.78
E1-6C	3/8 x 3/8	6.78
E1-6D	3/8 x 1/2	12.16
E1-8B	1/2 x 1/4	12.16
E1-8C	1/2 x 3/8	13.16
E1-8D	1/2 x 1/2	12.16
E1-8E	1/2 x 3/4	17.22
E1-10C	5/8 x 3/8	41.76
E1-10D	5/8 x 1/2	21.90
E1-10E	5/8 x 3/4	20.58



Flare E11

Part No.	Description	List
E2-4	1/4	6.42
E2-6	3/8	9.08
E2-8	1/2	12.16
E2-10	5/8	22.38
E2-12	3/4	25.80



Flare X Female Pipe Ell

Part No.	Description	List
E3-4A	1/4 x 1/8	5.38
E3-4B	1/4 x 1/4	15.71
E3-6B	3/8 x 1/4	11.38



Finger Tight Flare Cap

Neoprene Seal		
Part No.	Description	List
NFT5-4	1/4	1.38
NFT5-6	3/8	3.18

Short Forged Flare Nut

Part No.	Description	List
NS4-3	3/16	5.06
NS4-4	1/4	2.02
NS4-5	5/16	5.16
NS4-6	3/8	2.64
NS4-8	1/2	3.96
NS4-10	5/8	5.62

Short Reducing Flare Nut

Part No.	Description	List
NRS4-43	1/4 x 3/16	6.10
NRS4-54	5/16 x 1/4	11.68
NRS4-64	3/8 x 1/4	2.98
NRS4-65	3/8 x 5/16	11.94
NRS4-86	1/2 x 3/8	5.28
NRS4-108	5/8 x 1/2	5.76

Female Flare X Flare Adapter



Part No.	Description	List
UR3-43	1/4 x 3/16	20.26
UR3-46	1/4 x 3/8	4.44
UR3-48	1/4 x 1/2	11.18
UR3-64	3/8 x 1/4	4.08
UR3-68	3/8 x 1/2	9.48
UR3-84	1/2 x 1/4	11.84
UR3-86	1/2 x 3/8	5.54
UR3-810	1/2 x 5/8	6.28
UR-108	5/8 x 1/4	20.26
UR2-1012	5/8 x 3/4	9.48
UR3-1210	3/4 x 5/8	11.50



Flare X Male Pipe Adapter



Part No.	Description	List
U1-3A	3/16 x 1/8	6.54
U1-4A	1/4 x 1/8	2.26
U1-4B	1/4 x 1/4	2.36
U1-4C	1/4 x 3/8	2.82
U1-4D	1/4 x 1/2	3.78
U1-5A	5/16 x 1/8	2.74
U1-5B	5/16 x 1/4	8.44
U1-5C	5/16 x 3/8	6.40
U1-6A	3/8 x 1/8	2.76
U1-6B	3/8 x 1/4	2.76
U1-6C	3/8 x 3/8	2.82
U1-6D	3/8 x 1/2	3.90
U1-8A	1/2 x 1/8	8.10
U1-8B	1/2 x 1/4	8.30
U1-8C	1/2 x 3/8	3.78
U1-8D	1/2 x 1/2	4.22
U1-8E	1/2 x 3/4	10.46
U1-10B	5/8 x 1/4	15.46
U1-10C	5/8 x 3/8	7.54
U1-10D	5/8 x 1/2	5.28
U1-10E	5/8 x 3/4	6.16
U1-12C	3/4 x 3/8	11.50
U1-12D	3/4 x 1/2	17.38
U1-12E	3/4 x 3/4	17.12



Flare Union

Part No.	Description	List
U2-3	3/16	6.50
U2-4	1/4	2.14
U2-5	5/16	3.90
U2-6	3/8	2.36
U2-8	1/2	3.18
U2-10	5/8	5.24
U2-12	3/4	11.82

Reducing

Part No.	Description	List
UR2-43	1/4 x 3/16	6.44
UR2-54	5/16 x 1/4	7.64
UR2-64	3/8 x 1/4	3.36
UR2-65	3/8 x 5/16	11.08
UR2-84	1/2 x 1/4	6.44
UR2-86	1/2 x 3/8	8.54
UR2-106	5/8 x 3/8	10.46
UR2-108	5/8 x 1/2	13.16
UR2-128	3/4 x 1/2	15.46
UR2-1210	3/4 x 5/8	19.58

Flare X Male Pipe Adapter

Part No.	Description	List
U3-4A	1/4 x 1/8	1.80
U3-4B	1/4 x 1/4	2.54
U3-4C	1/4 x 3/8	12.16
U3-6A	3/8 x 1/8	6.62
U3-6B	3/8 x 1/4	2.54
U3-6C	3/8 x 3/8	10.12
U3-6D	3/8 x 1/2	13.58
U3-8B	1/2 x 1/4	13.58
U3-8C	1/2 x 3/8	13.58
U3-8D	1/2 x 1/2	13.58
U3-10C	5/8 x 3/8	8.10
U3-10D	5/8 x 1/2	13.16
U3-10E	5/8 x 3/4	12.16

Swivel Female Flare Connector

Part No.	Description	List
US4-4	1/4	8.96
US4-5	5/16	8.96
US4-6	3/8	8.96
US4-8	1/2	13.04
US4-10	5/8	13.00

Pipe Insulation



Armaflex Insulation Uses

AP Armaflex Pipe Insulation is used to retard heat gain and control condensation drip from cold-water plumbing, chilled-water, and refrigeration lines. It also efficiently reduces heat flow for hot-water plumbing, liquid-heating and dual temperature piping. The recommended temperature usage range for AP Armaflex Pipe is -70°F to +220°F (-57°C to +105°C).

Pipe Covering Insulation

Tubing Insulation Size(ID)	3/8" Wall ID			1/2" Wall ID		
	Per 6 ft Length	Part #	List Price	Per 6 ft Length	Part #	List Price
3/8	6	3/8x3/8	5.40	-	-	-
1/2	6	1/2x3/8	5.78	-	-	-
5/8	6	5/8x3/8	6.66	-	-	-
3/4	6	3/4x3/8	7.06	6	3/4x1/2	10.08
7/8	6	7/8x3/8	7.40	6	7/8x1/2	10.40
1-1/8	6	1-1/8x3/8	8.44	6	1-1/8x1/2	12.20
1-3/8	6	1-3/8x3/8	9.60	6	1-3/8x1/2	13.42
1-5/8	6	1-5/8x3/8	11.90	6	1-5/8x1/2	15.56
2-1/8	6	2-1/8x3/8	14.10	6	2-1/8x1/2	20.30

Sheet Insulation

Model No.(in.)	Sheet Size	List Price
1/2W-36-48	36x48	53.30
3/4W-36-48	36x48	80.48
1W-36-48	36x48	97.90



520 Adhesive

Model	Size	List Price
520-1/2 PT	1/2 pint	16.02
520-1PT	1 pint	24.52

Rolls-by the Box

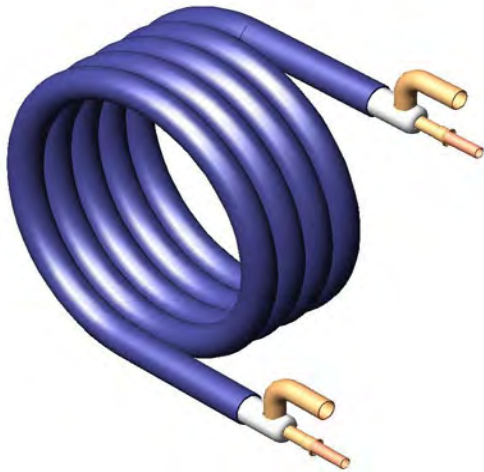
P/N	Description	Size (in.)	Ft./Ctn	Ctn	List Price
APC03438	AP Coil	3/4 x 3/8 x 110	110	1	131.94
APC07838	AP Coil	7/8 x 3/8 x 95	95	1	119.32
APC11838	AP Coil	1-1/8 x 3/8 x 75	75	1	107.40
APC05838	AP Coil	5/8 x 3/8 x 125	125	1	141.48



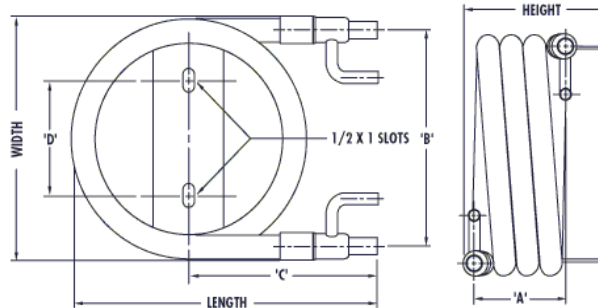
Rolls



Water-Source Condensers



- Excellent for both water-source heat pump and water-cooled condenser applications
- Highly effective convoluted inner tubes of copper or cupronickel
- U.L and C.S.A. approved
- ISO 9002 certified
- For working pressure of Refrigerant side : 650 psig Water side: 400 psig



Ice Machine Coils (cupro-nickel)

MODEL	Lbs/Ice per day	DIMENSIONS In.				CONNECTIONS		List Price			
		A	B	C	D	Length	Height		Width	Refrig i.d	Water o.d
COCX-0934-H	150	3 3/8	5 1/2	6 5/8	2 1/4	9 7/8	5 5/8	6 5/8	1/4	1/2	258.00
COCX-0945-H	200-320	4 3/8	5 1/2	6 5/8	2 1/4	9 7/8	6 5/8	6 5/8	1/4	1/2	314.00
COCX-0946-H	400-450	5 7/16	5 1/2	6 5/8	2 1/4	9 7/8	7 11/16	6 5/8	1/4&3/8	1/2	400.00
COCX-1074-H	600	4 3/16	7 9/16	7 9/16	2 1/4	11 13/16	6 3/8	8 11/16	1/4&3/8	1/2	428.00
COCX-1078-H	800	5 3/8	7 7/8	7 3/4	2 1/4	12 1/4	8 1/8	9 3/16	1/4&3/8	5/8	604.00
COCX-1079-H	1000	7 1/8	8 1/16	7 15/16	2 1/4	12 1/2	9 1/2	9 3/8	1/4&3/8	5/8	715.00
COCX-0968-H	1300	5 1/8	9 7/16	8 5/8	5 13/16	13 15/16	7 1/2	10 7/8	3/8&1/2	3/4	768.00
COCX-1044-H	1800	6 7/16	9 7/16	8 5/8	5 13/16	13 15/16	8 13/16	10 7/8	3/8&1/2	3/4	864.00

Condenser / Heat Pump Coils (copper)

MODEL	Nom Ton	DIMENSIONS In.							CONNECTIONS		List Price			
		A	B	C	D	E	F	G	Length	Height		Width	Refrig i.d	Water o.d
COAX-0033	1/3											3/8	3/8	174.00
COAX-1067	3/4											5/16&1/2	1/4&1/2	320.00
COAX-1068	1.5											5/16&1/2	1/4&1/2	390.00
COAX-2051-H	1/2	5 5/8	1 5/8	1 3/4	4 5/8	2 13/16	6 11/16	6 5/8	9 15/16	5 1/8	8 5/8	3/8	1/2	188.00
COAX-2076-H	3/4	5 5/8	1 5/8	1 3/4	5 1/2	2 13/16	6 11/16	6 5/8	9 15/16	6	6 5/8	3/8	1/2	212.00
COAX-2101-H	1	5 5/8	1 5/8	1 3/4	6 7/16	2 13/16	6 11/16	6 5/8	9 15/16	6 15/16	6 5/8	3/8	1/2	260.00
COAX-2151-H	1 1/2	9 1/16	2	1 3/4	5 7/8	4 1/2	8 1/4	10	13 5/16	6 7/16	10 3/16	3/8	1/2	326.00

“ H “ Helix with Bracket



Notes



Copper Capillary Tubing

- Plug-drawn, sealed and dehydrated soft copper tubing.
- Commercial tolerance of ± 0.001 ".
- 100' Coils - Individually boxed with conversion and application charts enclosed



Rolls

Part no.	Length	I.D.	O.D.	List
09-TC-26-100	100'	0.026"	0.072"	138.00
09-TC-31-100	100'	0.031"	0.083"	110.00
09-TC-42-100	100'	0.042"	0.093"	130.00
09-TC-44-100	100'	0.044"	0.109"	134.00
09-TC-49-100	100'	0.049"	0.099"	132.00
09-TC-50-100	100'	0.050"	0.114"	136.00
09-TC-54-100	100'	0.054"	0.106"	128.00
09-TC-64-100	100'	0.064"	0.125"	156.00

Lubricants



The Finest All-Purpose Industrial Oil

The telescoping Spout that reaches everywhere! Telescopic Oiler's are specially formulated to reduce wear on moving parts. The oil contains superior additives with anti-rust properties preventing corrosion. The convenient retractable spout makes it easy to get to those hard to reach places

Oiler

Part #	Description	List
10-ZS75	118 ml telescopic bottle	4.64

Alltemp's Rust Breaker is specially formulated to quickly loosen rust and frozen parts. Rust Breaker's de-moisturizing agents act as a penetrating oil and superior rust inhibitor. The telescopic spout reaches everywhere! The convenient retractable spout makes it easy to get to those hard to reach places.

Rust Breaker

Part #	Description	List
10-RB75	118 ml telescopic bottle	5.40

Definite Purpose Magnetic Contactors Rotom Definite Purpose Magnetic Contactors

Contactors are designed to establish or interrupt a power circuit. Definite purpose contactors unlike general purpose contactors are non-rebuildable electronic controls designed for specific application with clearly defined operation conditions.

Features:

- Compact size
- Quieter than traditional designs
- Far more efficient operation
- Universal electrical connections
- Quick connect terminals
- Universal galvanized mounting plates
- Protective Dust arc cover
- Snap on auxiliary contacts
- Individually packaged
- Easy to understand part numbers
- Complete cross reference
- UL, CE & cUL approved
- Price competitive

Typical Applications

- Heating
- Ventilation
- Air Conditioning
- Refrigeration
 - Compressors
 - Motors
- Agriculture
- Pool & Spa Controls
- Food Service Equipment
- Welding Equipment
- Business Machines

Contactor Nomenclature

HC - 1 30 24
 HC = Product Code
 1 = Poles (1,2,3 or 4)
 30 = Full Load Amps (30A, 40A...)
 24 = Coil Voltage (24, 120 or 240)

Contactor Terminal Types

- 30 Amp. = #10-32 Com Screw Terminals
 - 40, 50 & 60 Amp. = # 14-4 Compression Lug Terminals with 1/4"-20 Screws
- Custom Terminal Type Models Available Upon Request!*

One Pole Contactors

- One pole contactor with shunt
- UL cUL CE approved
- 4 - 1/4" brass spade terminals per power connection
- #10-32 combination screw terminals
- 50/60 Hz



Part #	Full load Amps.	Coil Voltage 50/60	Resistive Amps.	Locked Rotor Amps. @ 240V	Height (")	Width (")	Depth (")	List Price
HC-130120	30	120	40	180	2.38	2.00	3.29	24.16
HC-130240	30	208/240	40	180	2.38	2.00	3.29	24.16

Two Pole Contactors

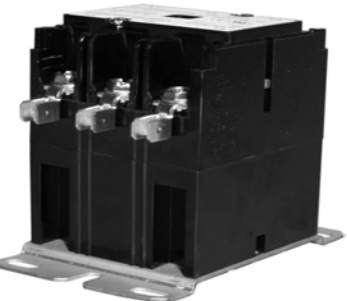
- UL cUL CE approved
- 30 Amp.= 4 - 1/4" brass spade terminals per power connection
- 40 Amp.= 4 - 1/4" copper spade terminals per power connection
- 50/60 Hz
- Dust/Arc cover over contacts (40 Amp Models & Up)



Part #	Full load Amps.	Coil Voltage 50/60	Resistive Amps.	Locked Rotor Amps. @ 240V	Height (")	Width (")	Depth (")	List Price
HC-23024	30	24	40	180	2.45	2.06	3.32	23.96
HC-230120	30	120	40	180	2.45	2.06	3.32	22.90

Three Pole Contactors

- UL cUL CE Approved
- 30 Amp.= 4 - 1/4" brass spade terminals per power connection
- 40 Amp.= 4 - 1/4" copper spade terminals per power connection
- 50/60 Hz
- Dust/Arc cover over contacts with built-in test button



Part #	Full load Amps.	Coil Voltage 50/60	Resistive Amps.	Locked Rotor Amps. @ 240V	Height (")	Width (")	Depth (")	List Price
HC-33024	30	24	40	180	2.99	2.37	3.75	58.06
HC-330120	30	120	40	180	2.99	2.37	3.75	58.06
HC-330240	30	208/240	40	180	2.99	2.37	3.75	58.06
HC-34024	40	24	50	240	2.99	2.37	3.75	65.98
HC-340120	40	120	50	240	2.99	2.37	3.75	65.98
HC-340240	40	208/240	50	240	2.99	2.37	3.75	56.98
HC-360120	60	120	75	360	3.12	2.75	3.75	164.46
HC-360240	60	208/240	75	360	3.12	2.75	3.75	164.46

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

- R12 Drop-in Replacement
 - R414b utilizes 4 refrigerant components which when blended together, result in low and high pressure readings similar to pressure, normally seen in a R12 system. R414b is a drop-in replacement not requiring system adjustments, oil changes, or retrofit procedures. Just complete your repair and replace the R12 with R414b (adjusting the amount of charge). It's that simple.
- Advantages
 - Compatible with Mineral, Alkylbenzene and Polyol Ester oils, therefore no oil change required.
 - Works in low, medium, and high temperature systems, therefore the service truck carries One Tank to replace all R12 applications.
 - R414b increases capacity of:
 - R12 system by 8%.
 - R134a system up to 15 to 20%.
 - R500 system - no capacity change.
 - Operating systems will have pressures and temperature very similar to R12 pressures and temperatures ± 1 to 5%.
 - Reduce ozone depletion to 0.034 or 97% less than R12.
 - ASHRAE listed - R414b.
 - ASHRAE listed A1 completely Non Toxic/Non Flammable.
 - CSA recognized.
 - Charging systems is easier than ever. Refrigerant must leave the container as a liquid. If charging by weigh scales, reduce the amount to 80% of name plate. If charging by charging cylinder, use the R12 scale and charge as if it was R12 (same volume). That volume will weigh 20% less. R414b should not be mixed with other refrigerants.
 - TXV systems charged with R414b may require a super heat adjustment after system stabilizes. If charging by sight glass, a clear sight glass will probably be over charged, a trace bubble is normal.
 - Recovery/ recycling procedure is the same as any other blended refrigerant. Do not mix in your cylinders.
- Features
 - The Environment Friendly
 - R-12 Drop-In Replacement.
 - ASHRAE Designated.
 - No Expensive Retrofits.
 - ASHRAE Rated A1.
 - Non Toxic - Non Flammable.
 - Cooler - Safer - More Efficient
 - At All Temperature Ranges.
 - Completely Compatible with
 - Most System's Components.

List Price

\$ 738.00 11.3 KG

Hubless Design

Open & Totally Enclosed Construction • Sleeve & Ball Bearing • Shaded Pole •
120 & 240 Volts • 1550 & 3000 RPM

Typical Applications: Commercial Refrigeration, Walk-ins, Display Cases, Unit Coolers and Condensers



Fig.1



Fig.2



Fig.3

120 Volts • 1550 RPM

CW # (1)	CW # (2)	Amps	Fig.	Const.	Comments	O.E.M	List
R114		0.45	1	T.E.	Leads, 3 Point or Leg Mounting	General Replacment, 4 Watt	call
R128		0.35	2	T.E.	3 Pt. Mtg., 3 Wire Lyall Plug	Coldstream	90.00
R120	R119	0.55	1	T.E.	Leads, 3 Point or Leg Mounting	Foster, 6 Watt	call
R109 R137	R108	0.55	3	T.E.	U-Bracket	Ideal, hunter	127.00
		0.55	2		Fleck Plug	Tyler	120.82
		0.59	2		Lyall Plug	Coldstream	103.55
R123		0.50	3	T.E.	Double Bracket, Leads	Universal, Ideal	call
	R127	0.75	2	T.E.	2 Point Mounting, Plug Stud Mounting	Ideal, General Freezer Foster	68.44
R101	R103	0.90	1	T.E.	Lyall Plug, 3 Pt. or Leg Mounting	Foster, Hossman, 9 Watt	69.04
	R133	1.00	2	T.E.	2 Speed, Leads	Mark Hot 5DH1A1 P456	call
	R124	1.55	2	T.E.	Ball Bearing, Lyall Plug	Dunham-Bush, 2-4 Pint Mtg.	105.72

120 Volts • Two Speed • 1550 RPM

CW # (1)	CW # (2)	Amps	Fig.	Const.	Comments	O.E.M	List
	R133	1.00	2	T.E.	2 Speed, Leads	Mark Hot 5DH1A1 P456	call

120 Volts • 3000 RPM

CW # (1)	CW # (2)	Amps	Fig.	Const.	Comments	O.E.M	List
	R129	.65	2	T.E.	Lyall Plug	Hill PP32032E, 165884	call

240 Volts • 1550 RPM

CW # (1)	CW # (2)	Amps	Fig.	Const.	Comments	O.E.M	List
R122	R121	0.35	1	T.E.	Lyall Plug, 3 Pt. or Leg Mounting	Coldstream, Foster	110.46
	R125	0.80	2	T.E.	Ball Bearing, Lyall Plug	Dunham-Bush, 2-4 Pint Mtg.	call

¥ 0350044, 0350046, MM2847
‡ 0350043, 0350045, MM2848

Domestic & Commercial Refrigeration Motors

CW #	Watts	Amps	Comments	O.E.M	List
R5109	2	0.16	Aluminum Body, Unit Brg.	Domestic Refrigeration, 3.5" Diameter	call



Unit Bearing • High Efficiency • Cast Iron 115 Volts • 3.5" Diameter • 1550 RPM

CW #	CW #	Watts	Amps	Comments	O.E.M	List
R5211		4	0.35	Pad or Leg Mount	Tecumseh TFM41	87.00
R5911 R6247		5	0.34 0.34	Plug Adapter w/Cord Plug Adapter	Hil PP7577 Cornelius, ABD	call
R5311 R6243	R5312	6	0.36 0.36	Pad or Leg Mount Verticle Mount	Tecumseh TFM61 Cornelius, QBD	99.84 call
R5411 R5611 R6273	R5412 R5612	9	0.53 0.66 0.53	Pad or Leg Mount Hayco Plug, Pad Mount Plug Adapter	Tecumseh TFM91 Hussmann 47000, 58698, 38360 Cornelius, QBD	99.50 122.80 call
R5811	R5812	16	0.80	Pad or Leg Mount	Copeland	133.16



208-230 Volts • Diameter • 1550 RPM

R5221	R5222	4	0.14	Pad or Leg Mount	Copeland	call
R5421	R5422	9	0.29	Pad or Leg Mount	Tecumseh TFM92, TFM62	107.00
R5821	R5822	16	0.55	Pad or Leg Mount	General Replacment	136.62

115 Volts • 3.8" Diameter • 1550 RPM • Standard Design

CW # (1)	CW # (2)	Watts	Amps	Comments	O.E.M	Price (2)
R2011		20	0.80	Leads, Verticle Mount	C.V. Hill PP20934F	call
R2511	R2521	25	1.10	Leads	Tecumseh TFM191	call
R3511	R3521	35	1.40	Leads	Tecumseh TFM351, Hussmann, Copeland	call



208-230 Volts • 3.8" Diameter • 1550 RPM • Standard Design

R2512	R2522	25	0.60	Leads, Ring Term's	General Replacment	call
R3512	R3521	35	0.70	Leads, Ring Term's	Tecumseh TFM352, 810M35A-21	call

115 Volts • 3.8" Diameter • 1550 RPM • Shaft Type

R5011	R5021	50	1.70	3/8" x 1.5" Shaft w/Flat	Copeland	call
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208-230 Volts • 3.8" Diameter • 1550 RPM • Shaft Type

R3612		30	0.70	5/16" x 1.4" Shaft w/Flat	Tecumseh TFM352	call
R5112 R5122 R5012	R5022	50	0.85 0.85 0.85	5/16" x 1.4" Shaft w/Flat 5/16" x 2.0" Shaft w/Flat 3/8" x 1.5" Shaft w/Flat	Tecumseh Tecumseh TFM502 Tecumseh, Copeland	call

4000/4010 Series Timer Switches

24 Hour dial with 2 replaceable trippers for one to seven on/off operations per day. 1½ hour minimum and 22 ½ maximum on or off time. Manual override lever temporarily reverse switch operation without permanently disturbing preset schedule. Terminals accommodate AWG #8 wire. Optional skip a day feature. Optional astro dial feature adjusts for seasonal changes turning lights on automatically at sunset and permitting off between 9:30 pm and 2:30 am or off at sunrise.



Model	Switch Type	HP	AC Line Volts	Enc. Type NEMA	List
4000 Series - Standard NEMA 1 indoor metal enclosure					
4001-00-RT	SPST	1	120	1	116.00
4002-71	SPST	1	208-277	1	122.00
4003-00-RT	DPST	1	120	1	132.00

8045 Series Defrost Controls

Frequency of defrost initiations is adjustable from one to six cycles per day. Minimum of four hours between successive operations. Duration of defrost cycle adjustable from 4 to 110 minutes in two minute increments. Accuracy of defrost duration +/- two minutes. Choice of four contact arrangements for electric heat, hot gas or compressor shut down defrost. Positive switch action slider bar. Switch rating per pole: 40 amps, 2 hp per pole; 690 VA pilot duty 120-240 volts AC.



Model	Volts 60Hz	Description	Switch Arrangements Contracts			Adj. Length of Defrost	List
			2-4	1-3	3-N		
8045-00	120	Elec.Heat, Hot Gas or Compressor Shutdown Def.	Closed	Open	None	4-110 min	296.00
8045-20	208-240		306.00				

8145 Series Defrost Controls

Frequency of defrost initiations is adjustable from one to six cycles per day. Adjustable back-up defrost termination from four to 110 minutes in two minute increments. Control works with an external temperature or pressure sensor. Choice of three contact arrangements for electric heat, compressor shutdown or hot gas defrost. Positive switch action slider bar. Switch ratings per pole: 40 amp, 2 hp, 690 VA pilot duty, 120-240 volts AC



Model	Volts 60 Hz	Switch Arrangement Contacts			List
		2-4	1-3	3-N	
8145-00	120	Closed	Open	None	312.00
8145-20	208-240	Closed	Open	None	398.00

9045 , 9145 Series Commercial Defrost Controls

The 9045-00 and 9145-00 Universal Defrost Timers are the only multi-voltage defrost timers engineered to refrigeration standards. Features include, real-time clock, 15 minute manual defrost and easy programming. Wires directly to 120v, 208v or 230v AC

Model	Volts 60 Hz	Switch Arrangement Contacts			List
		2-4	1-3	3-N	
9145-00	120-240	Closed	Open	None	334.00
9045-20	120-240	Closed	Open	None	324.00

Notes



Pressure Controls



These controls offer a variety of pressure ranges and switch action to provide maximum application flexibility.

Features:

- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- SUPER CAP® capillary protection system
- Universal mounting and compact design
- Screw terminals are raised and fully accessible for easy wiring
- Laser-welded bellows for extended life
- Heavy-duty plated steel frame
- Suitable for R12, R22 and R502 applications

“O” Series Single Function Low & High Pressure Controls

Uni-Line Order No.	Reset Auto	Reset Manual	Range PSI	Differential PSI	Switch	Pressure Connection	Cap. Length	List
O10 Series - Low Pressure Controls								
O10-1402	Yes	-	12" to 50	5 to 35	SPST-opens low	1/4" SAE flare nut	36"	108.00
O10-1483	Yes	-	10" to 100	10 to 40	SPST-opens low	1/4" SAE flare nut	36"	108.00
O10 Series - High Pressure Controls								
O10-2054	Yes	-	100 to 400	40 to 150	SPST-opens low	1/4" SAE flare nut	36"	146.00

Uni-Line Order No.	Reset Auto	Reset Manual	Range PSI	Differential PSI	Switch	Pressure Connection	Cap. Length	List
Bin Level Control								
A22-1129	Yes	-	35 - 51	40 to 150	SPDT	1/4" SAE flare nut	48"	140.00

Uni-Line Order No.	Reset Auto	Reset Manual	Range PSI	Differential PSI	Switch	Pressure Connection	Cap. Length	List
O16 Series - High Pressure Controls								
O16-108	Yes	-	100 to 400	40 to 150	SPDT	1/4" SAE flare nut	36"	144.00



Dual Pressure Controls

These controls offer a tailored variety of ranges and options for R12, R22, and R502 refrigerants. Low and high pressure functions are combined into a single control with one switch

Features:

- Exclusive “convertible” reset for manual or automatic high pressure reset on some models
- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large, easy-to-read scale plate
- SUPER CAP® capillary protection system
- Universal mounting and compact design
- Screw terminals are raised and fully accessible for easy wiring
- Laser-welded bellows for extended life
- Heavy-duty plated steel frame
- Knockout for 1/2" conduit

Uni-Line Order No.	Low Pressure (Opens Low)				High Pressure (Opens High)				Switch	Cap. Length	List
	Reset Auto	Reset Manual	Range PSI	Differential PSI	Reset Auto	Reset Manual	Range PSI	Differential PSI			
O12 Series Dual Pressure Controls											
O12-1549	Yes	-	10" to 100	10 to 40	Yes	-	150 to 450	70-Fixed	SPST	36" has 1/4" SAE flare nut	216.00
O12-1594	-	Yes	10" to 100	10 to 40	-	Yes	150 to 450	70-Fixed	SPST	36" has 1/4" SAE flare nut	272.00

British Columbia

Alberta

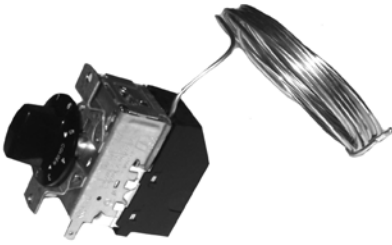
Saskatchewan

Manitoba

Thunderbay



A12 Series Direct Replacement Constant Cut-In Controls



Part No.	Normal Off (°F)	Normal On (°F)	Warm On (°F)	Cold (°F)	Capillary Length (")	List
A12-700	18	26	11.5	37	84	116.00
A12-701	23.5	31	15	41	84	116.00
A12-1560	24	29	19	38	72	118.00

One-for-one replacements for vending machines, automatic beverage dispensers, and reach-in coolers. Reliable off-cycle defrost. SPST switch with Off Position

Electronic Temperature Controls

Features:

The Ranco ETC is a microprocessor-based family of temperature controls designed to provide on/off control for commercial heating, cooling, air conditioning and refrigeration applications.

Digital Display: Unlike most electronic controls, the ETC is simple to install and set up. The standard digital display and keypad allow the user to adjust the temperature settings with 1° resolution.

Choice of One or Two Stage Models: On two stage controls, each stage can be set independently thus eliminating the bothersome task of calculating interstage temperatures.

Remote Temperature Sensing: The ETC is capable of remote temperature sensing up to 400 feet away from the control when using standard 22 gauge sensor wire.

Built in Safety: Every ETC model is equipped with diagnostic programs that check for hardware, software or system problems and display different error codes to indicate where the trouble is.

Optional Analog Output: ETC models are available with 0 to 10 volt analog output that can be used for remote temperature indication or as input to a central monitoring system.

Specifications:

Temperature Set Point Range	-30°F to 220°F
Differential Range	1°F to 30°F
Input Power Requirements	120 or 208-240 VAC (24 VAC optional)
Sensor	Thermistor, 2" long x 1/4" dia. with 8' cable
Control Ambient Temperature	Operating: -20°F to 140°F Storage: -40°F to 176°F
Ambient Humidity	0 to 95% RH, Non-condensing
Enclosure	NEMA 1, Plastic (NEMA 4X optional)
Dimensions	NEMA Models: 6.52" h x 2.7" w x 2.48" deep NEMA 4X models: 7.48" H x 2.7" W x 2.48" deep
0 to 10 V Output Impedance	1 K ohms
Agency Approvals	UL Listed, File E94419, Guide XAPX CSA Certified, File LR 68340, Class 4813 02
Switch Action	SPDT



Model	No. of Stages	Enclosure	Input Voltage	0 to 10 V Output	List
ETC-1110	One	NEMA 1	102/208/240 VAC	No	180.00

Relay Output Ratings - No (NC)

One Stage		
	120V	208/240V
Full load amps	16 (5.8) A	8 (2.9) A
Locked rotor amps	96 (34.8) A	48 (17.4) A
Resistive amps	15 (5.8) A	8 (2.9) A
Horsepower	1 (1/4) HP	1 (1/4) HP
Pilot Duty	125 V at 120/208/240 VAC	
Two Stage		
	120V	208/240V
Full load amps	9.8 (5.8) A	4.0 (2.9) A
Locked rotor amps	58.8 (34.8) A	29.4 (17.4) A
Resistive amps	9.8 (5.8) A	4.9 (2.9) A
Horsepower	1/2 (1/4) HP	1/2 (1/4) HP
Pilot Duty	125 V at 120/208/240 VAC	



Notes





A19 Series Temperature Control

These controls are designed to cover a broad range of general purpose operating temperature control applications in the refrigeration,air conditioning and heating field with a minimum number of models. Typical applications are: frozen food cases,display cases,beverage coolers,milk coolers,etc.

Model	Type	Switch Type	AC FULL LOAD AMP			Range Celcius	Diff Celcius	Range Adjuster	Max Temp Celcius	List Price
			120	208	240					
VENTILATING,HEATING										
COOLING										
A19BBC-2C	Coil Bulb	SPDT	16.0	9.2	3.0	-34 to 38	3 to 12	Convertible	60	196.00
A19ABC24	Remote	SPDT	16.0	9.2	3.0	-34 to 38	3 to 12	Convertible	60	144.00

A419 Temperature Control



The A419 series controls are single-stage,electronic temperature controls with a single pole,double throw output relay.They feature a lockable front panel touch pad for setup and adjustment,and a liquid crystal display.

These controls are designed to cover a broad range of general purpose operating temperature control applications in the refrigeration,air conditioning and heating field with a minimum number of models. Typical applications are: frozen food cases,display cases,beverage coolers,milk coolers,etc.

Model	Switch Type	AC FULL LOAD AMP		Range Celcius	Diff Celcius	Range Adjuster	Max Temp Celcius	List Price
		120	240					
VENTILATING,HEATING								
COOLING								
A419ABC-1C	SPDT	16.0	3.0	-34 to 100	1 to 30	Convertible	60	163.00

Pressure Control



P70 Single Pole Dual Pressure Control

This P70 series of dual pressure controls employs a SPST switch, that is opened when either high pressure or low pressure beyond the control settings is sensed at the controls two bellows sensing elements. The load carrying contacts provide direct control of AC motors within the controls rating.

- full adjustability through all pressure ranges
- minimum differential
- long life contact structure..no bounce on make
- manual reset models are trip-free

Dual Pressure All Range for R12,R22,R134A,R502

Model	Replaces Ranco	Low Pressure		High Pressure		Limited Knob Adj	Max Over-pressure	List Price
		psig		psig				
		Range	Diff	Range	Diff			
P70LB-1C	012-1549	20 to 100	min 7 max 50	100 to 500	65 to 400	Cut-out	325 Low 525 High	326.00
P70MA-1C		20 to 100	min 7 max 50	100 to 500	Lock out Manual Reset	None	325 Low 525 High	329.00
P70NA-1C	012-1594	20 to 100	Lock out manual Reset	100 to 500	Lock out Manual Reset	None	325 Low 525 High	332.00

P70 Pressure Control

The P70, P72, and P170 controls for low pressure applications are designed primarily for low pressure cut-out control, pump-down control, and capacity control on commercial refrigeration and air conditioning applications. These controls are available in several pressure ranges and are compatible with most common refrigerants. They may also be used on other non-corrosive fluid applications. Ammonia-compatible models are also available. Controls also are available in several different electrical ratings and switch configurations. The P72 models provide direct control of 208-240 volt single-phase motors up to 3 hp, and 208-220 volt 3-phase motors up to 5 horsepower.

Single Pole Low Pressure Control

Model	Switch Action	Low Pressure psig		Limited Knob Adj	Max Over-pressure	List Price
		Range	Diff			
P70AB-12C	Close High Open Low	12 to 80	min 5 max 35	Cut-out	525	175.00
P70AB-2C	Close High Open Low	20 to 100	min 7 max 50	Cut-out	325	175.00

Single Pole High Pressure Control

Model	Switch Action	Low Pressure psig		Limited Knob Adj	Max Over-pressure	List Price
		Range	Diff			
P70AA-118C	Close High Open Low	100 to 400	min 35 max 200	None	475	170.00
P70DA-1C	Close High Open Low	50 to 500	Lockout Man Reset	None	525	194.00

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

V46 Pressure Actuated Water Reg. Valve

The V46 is a pressure actuated modulating valve that is suitable for use either on closed or open systems. Direct acting valves open on pressure increase. This type of valve is primarily used to regulate the flow of water or glycol to a water cooled condenser on a refrigeration system.



Model	Pipe Size inches	Inlet and Outlet	Opening Point Range psig	Pressure Element	List Price
V46AA-1C	3/8 NPT	Threaded	70 to 260	30 in Capillary	263.00
V46AB-1C	1/2 NPT	Threaded	70 to 260	30 in Capillary	286.00
V46AC-1C	3/4 NPT	Threaded	70 to 260	30 in Capillary	344.00

Seat Repair Kits

STT14A-600R	For V46AA-1C	125.00
STT15A-602R	For V46AB-1C	145.00

Lube Oil Pressure Cutout Control (with time delay)

The P45 control provides dependable, low lube oil pressure protection for refrigeration compressors. The factory set pressure setting provides operation to the compressor manufacturer's specification. A built-in time delay relay, compensated for ambient temperature, allows for pressure pick-up on start and avoids nuisance shutdowns on short duration pressure losses during the running cycle.

Applications

Semi-hermetic Compressors - The P45 control measures net oil pressure available to circulate oil through the lubrication system. (Net oil pressure is the difference between oil pump pressure and the crank case pressure)

Model	Time Delay	Heater Circuit	Reset	Pressure Connection	List Price
P45NCA-12C	120 sec	120/240	Manual	36" cap 1/4" FL nut	364.00

Refrigeration Oils



ZEROL Refrigeration Oil



ZEROL® 200 TD can be used with halogenated refrigerants, and with hydrocarbons and ammonia, in refrigerating and air conditioning applications. ZEROL® 200 TD is an excellent lubricant for systems utilizing SUVA™ MP39 or SUVA™ HP80, HP81.

Description

Chevron ZEROL Refrigeration Oil is a high-quality, premium refrigeration oil based alkylated benzene. It is similar in many ways to natural mineral oils but has superior properties that make it particularly valuable in refrigeration, air conditioning applications. It is available in two grades: ZEROL 150 (150 SUS) and ZEROL 300 (300 SUS)

Catalog No.	Description	Size	List
4308-07 (43080)	Refrigeration Oil, Zerol 200TD Alkylbenzene Refrig. Oil	1 Gal	99.00
4310-07 (43101)	Refrigeration Oil, Zerol 150TD Alkylbenzene Refrig. Oil	1 Gal	96.00
4311-07	Refrigeration Oil, Zerol 300TD Alkylbenzene Refrig. Oil	1 Gal	125.00

Refrigeration Oils C-3, C-4, C-5



Calgon Refrigeration Oil available in three grades: C-3 (150 SUS), C-4 (300 SUS) and C-5 (SUS). All viscosities are manufactured by Calumet Refining Company and are designated as R015, R030 and R050, respectively.

It is specifically designed for today's high performance air conditioning and refrigeration compressors. These modern compressors run at higher speeds and generate higher temperatures, so they need better lubrication.

Using the proper grade of Calgon refrigeration oil will insure continued efficient operation, providing the important properties required from an efficient refrigeration oil:

1. Good Lubrication.
2. Good low temperature performance.
3. Good stability.

Catalog No.	Description	Size	List
4303-07 (43031)	Refrigeration Oil, C-3 (Calument RO15)	1 Gal	49.00
4304-07 (43041)	Refrigeration Oil, C-4 (Calument RO30)	1 Gal	50.00
4305-07 (43051)	Refrigeration Oil, C-5 (Calument RO50)	1 Gal	49.00



ICI Emkarate® TL Lubricants



Emkarate polyester oil product numbers 22, 32, 46, 68, 100, 220 refer to the oil viscosity.

The letter following the number designates the following:

- S** Standard solubility
- H** High solubility

A/C EasySeal



A/C EasySeal was developed from technology used to protect air conditioning systems on nuclear submarines and satellites. A/C EasySeal circulates with the systems refrigerant, and if a leak should occur, it will quickly seal the leak and prevent the system from losing refrigerant and shutting down. It is perfect for those hard to find and expensive to fix leaks and works with all refrigerants (except ammonia). Each can will treat up to a 5 ton system and is easily installed with the reusable piercing valve and hose.

Part #	size	Description	List
4050-02	-	2 + 1 Display Pack	259.00



Thumb-Tite™

This compound is formulated and manufactured for use in many sealing, insulating, and general maintenance applications. It has excellent adhesion capability and is non-staining, non-hardening and unaffected by wide variations in temperature...an excellent thumbing grade. It is packaged in 2 lb. boxes, and each box contains two one pound bars

Part #	size	Description	List
4216-92	2 lb	Thumb-Tite	21.00

Refrigeration Lubricants



Coil Cleaners



Nu-Brite

The most effective coil cleaner available today. It foams, brightens and is an equally effective yet safer alternative to HF acid-based products. It produces a high volume of foam that cleans more effectively than acids, particularly in removing grease. Biodegradable, USDA approved.

Part #	size	Description	List
4291-08	1 gal	Nu-Brite	39.00



Foam-Brite

The ultimate in foaming alkaline cleaners. It provides tremendous foaming to push dirt and grime out of the coil. Can easily be used in place of the more dangerous HF acid-based products. Biodegradable.

Part #	size	Description	List
4178-08	1 gal	Foam-Brite	49.00



CalClean

An alkaline detergent formulated for cleaning evaporator coils, air-cooled condenser coils, metal filters, fan blades, and other surfaces soiled with grease, dust and dirt. Biodegradable. USDA approved.

Part #	size	Description	List
4820-08	1 gal	CalClean	49.00



Special HD CalClean®

The best cleaner available. Specifically formulated to remove tobacco tars from electronic air cleaners as well as the most stubborn deposits from finned coils. Biodegradable. USDA Approved.

CalClean HD Electronic Cell Cleaner

A ready-to-use formulation, ideal for electronic air cleaners.

Part #	size	Description	List
4823-08	1 Gal	HD CalClean	53.00



RX11-flush

RX11 is an ozone-safe solvent engineered specifically for flushing refrigerant and air conditioning systems and line sets. It is strong enough to rinse away particulates, sludge, carbon residues, acids, oils, and water after burnouts. RX11 is ideal for flushing line sets on R410 conversions.

Part #	size	Description	List
4300-10	-	2 + 1 Start-up Kit	460.00



Nu-Blast

A no rinse condenser coil cleaner in a convenient aerosol package. Double action of high pressure blast and solvent cleaning restores design efficiency of condenser coils. It is non-flammable.

Part #	size	Description	List
4290-75	18 oz	Coil Cleaner	25.00



Vacuum Oil

Quality, high grade lubricant that performs at the deepest vacuum. It has a very low vapor pressure and it has excellent lubricity for complete surface protection. It contains no additives or detergents.

Part #	size	Description	List
4383-24	1 quart	Vacuum oil	23.00
4383-07	1 gallon	Vacuum oil	49.00



Perma-Wrap

Perma-wrap foam insulation Tape is formulated from the highest quality elastomeric thermal insulation material. It is manufactured to meet the needs of today's air conditioning and refrigeration applications. Its closed cell construction seals out air and moisture, slowing down heat transfer and providing complete insulation.

Part #	size	Description	List
4218-W3	2"x1/8"x30'	Foam Tape	28.00



Cork Insulation Tape

This tape has been formulated and manufactured specifically for the air conditioning and refrigeration industry. This tape prevents sweating and condensation on refrigerant lines, cold pipes, and other commercial systems. It also serves as an insulator, gasketing and sound-deadening. **Can be applied at temperatures as low as -30F**

Part #	size	Description	List
4217-W3	2"x1/8"x30'	Cork Insulation	31.00

Cal-Blue® LT Gas Leak Detector

The same high quality formulation as regular Cal-Blue Plus, but has added freeze-protection to -20°F. It is the ideal detector for geographical areas that may experience very cold temperatures.

Cal-Blue Plus is a complete gas leak detector. Not only does it detect the smallest leak, it also provides other significant features and benefits. Its high viscosity formula enables it to remain in contact with the applied surface for an extended period of time, thereby allowing the smallest of leaks to be detected. It is also non-corrosive to metal, and it will not affect ultraviolet or "black lights". Additionally, it is freeze-protected to 5°F and safe for use on most gases, including oxygen.



Part #	size	Description	List
4181-24	1 Qt	Cal-Blue Leak Detector	16.00
4182-24	1 Qt	Cal-Blue Plus	16.00
4182-08	1 Gal	Cal-Blue Plus	43.00
4183-24	1 Qt	Cal-Blue Lt - 20 F	23.00
4183-08	1 Gal	Cal-Blue Lt -20 F	61.00

Rx-Acid Scavenger®

The most effective way to neutralize or "scavenge" acid in refrigeration, air conditioning systems. It is perfect for use after burnouts or during normal on-going system maintenance. Normal dosage rate is 2 fluid ounces for every one gallon of system oil, which is 50% less than other acid neutralizing products. This "low treat" feature means far less material has to be added to the system. In addition, the Rx-Acid Scavenger can be used with all lubricants: mineral, alkylbenzene and polyol ester. This means only one product in the tool box or on the truck



Part #	size	Description	List
4301-02	1 each	Acid Scavenger	46.00

Phase III® Refrigeration Oil Acid Test Kit

Formulated for use on POEs as well as mineral oils and alkylbenzene. An inexpensive, disposable test kit that provides proof-positive that acid level in refrigeration oil is safe or unsafe. Phase separation makes it easy to see change in color of acid indicator (even if a leak detection dye has been added to the oil). Just two bottles to work with, it is simple, safe, accurate, and small enough that you can carry several in your tool box.



Part #	size	Description	List
4320-W8	1 each	Oil Test Kit	25.00

Notes



Capacitors



Universal Power Start Relay

Application

One size for all compressors from 1/12 H.P. thru 1/2 H.P. for both domestic and commercial refrigerators and freezers.

Features

- A combined solid state starting relay and capacitor.
- Completely pre-wired for a fast, simple hookup.
- Installs quickly and easily by just pushing the female pin terminals onto the compressor terminals.
- Replaces current type relays.
- Provides added boost for hard start and unbalanced systems
- Prevents low voltage starting problems.
- No additional wires required

Part No.	Horsepower	Voltage	List
URSC10	1/12 thru 1/2	115	32.00

The 3 n' 1 Start Relay adds new life to old refrigerators and freezers by providing an additional boost to the compressor.

Application

This ALL-IN-ONE unit replaces ALL 3 electrical components relay, overload and start capacitor, on ALL capillary systems.

Features

- Completely pre wired.
- Installs quickly and easily by simply pushing on 3 female pin terminals.



RCO Series 3 n' 1 Start Relay

Part No.	Horsepower	Voltage	List
RCO810	1/12 thro 1/5	115	26.00
RCO410	1/4 and 1/3	115	26.00
RCO420	1/4 and 1/3	230	30.00

Standard cast aluminum condensate drains complete with long life heating element and mounting legs.



75-115 Condensate Drain Pans

Part No.	Capacity	Volts	Watts	Evaporate	Size	List
30-OS*	38 OZ.	120	160	8 OZ./HR	10 x 4 x 2 7/8	81.00
75-115	75 OZ.	120	320	14 OZ./HR	10 x 9 x 2 3/4	236.00



BPV Series Bullet® Piercing Valves

The ONLY valve with a permanent type, patented gasket application!
 SUPCO's "Bullet® Piercing Valve" utilizes the same type of gasket found under the head plate of most air conditioning compressors. When installed, the gasket actually compresses the copper tubing .020" creating a permanent, leakproof

Part No.	For Tubing Size	List
BPV31	1/4" , 5/16" , 3/8"	8.00



Leak Lock and Leak Lock GOLD with Teflon

A resin based soft setting brushable paste pipe joint compound resistant to all

refrigerants, oils, water and most chemicals, liquids and gases.

- Use with pressures to 10,000 PSI to full vacuums.
- Temperature range -200°F to 400°F, (-93°C) to (204°C).
- It never hardens and it never becomes brittle.
- Ideal for joining all metals, plastics and other materials.
- Will stick to all clean surfaces.
- GUARANTEES A PERFECT SEAL... UNDER ALL CONDITIONS

Part No.	Size	List
10001	1.3 oz	6.00
10004	4 oz	14.00



EASYHEAT

Pipe Tracing

HB

Constant wattage,pre-terminated cable

120 VAC resistance heating cable includes ground braid,black outer jacket,and two-foot orange 14/3 lead.No thermostat or plug. 7 watts per foot.
CSA Certified and UL Listed to Canadian Safety Standards



Pipe Tracing

HB2

Constant wattage,pre-terminated cable

240 VAC resistance heating cable includes ground braid,black outer jacket,and two-foot orange 14/3 lead.No thermostat or plug. 7 watts per foot.
CSA Certified and UL Listed to Canadian Safety Standards

Pipe Tracing

Part #	Description	Voltage	List Price
HB-01	1 Meter	120	61.38
HB-02	2 Meter	120	65.10
HB-02-2	2 Meter	240	68.42
HB-04	4 Meter	120	75.96
HB-04-2	4 Meter	240	75.62
HB-06	6 Meter	120	85.16
HB-06-02	6 Meter	240	89.96

Notes



Split System Air Conditioners



Nominal Capacities

24 to 60 MBH

Luxaire® Series High Efficiency (TCGD,TCJF,AL5B,AL8B) R410



13 SEER R410A

Single-Phase (TCGD)

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
TCGD18S41S1	1.5	13.0	3/8	5/8	9.8	15	28	23.5	23.5	97	1644.00
TCGD24S41S1	2	13.0	3/8	3/4	12.4	20	28	23.5	23.5	129	1748.00
TCGD30S41S1	2.5	13.0	3/8	3/4	14.7	25	28	23.5	23.5	131	1918.00
TCGD36S41S1	3	13.0	3/8	3/4	17.9	30	28	29	23.5	145	2106.00
TCGD42S41S1	3.5	13.0	3/8	7/8	21.5	35	30	29	23.5	173	2374.00
TCGD48S41S1	4	13.0	3/8	7/8	21.1	35	30	29	23.5	173	2686.00
TCGD60S41S1	5	13.0	3/8	7/8	35.9	60	32	33-5/8	33-5/8	195	3070.00

14.5 SEER R410A

Single-Phase (TCJF)

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
TCJF24S41S1	2	14.5	3/8	3/4	16.8	25	32	29	29	128	2450.00
TCJF30S41S1	2.5	14.5	3/8	3/4	18.4	30	32	29	29	130	2690.00
TCJF36S41S1	3	14.5	3/8	3/4	19.1	30	32	29	29	145	2956.00
TCJF42S41S1	3.5	14.5	3/8	7/8	23.9	40	36	33.6	33.6	172	3330.00
TCJF48S41S1	4	14.5	3/8	7/8	27.9	45	36	33.6	33.6	180	3766.00
TCJF60S41S1	5	14.5	3/8	1 1/8	35.9	60	36	33.6	33.6	199	4306.00

15 SEER R410A

Single-Phase (AL5)

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
AL5B024F1	2	15.0	3/8	3/4	13.5	20	33.5	37	31	195	4706.00
AL5B036F1	3	15.0	3/8	3/4	22.3	35	39.5	37	31	210	5696.00
AL5B048F1	4	15.0	3/8	7/8	27.9	45	39.5	37	31	260	6744.00
AL5B060F1	5	15.0	3/8	7/8	33.5	50	39.5	37	31	270	7462.00

18 SEER R410A

Single-Phase (AL8)

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
AL8B024F1	2	18.0	3/8	3/4	15.6	25	39.5	34	42	305	6394.00
AL8B036F1	3	18.0	3/8	3/4	23.6	40	39.5	34	42	305	7448.00
AL8B048F1	4	18.0	3/8	7/8	29.2	50	39.5	34	42	310	8168.00
AL8B060F1	5	18.0	3/8	7/8	34.8	60	39.5	34	42	330	8822.00

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



**Luxaire® Series High Efficiency
(THGD, THJF, HL5B, HL8B) R410A**

13 SEER R410A

Single-Phase (THGD)

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
THGD18S41S1	1.5	13.0	3/8	3/4	9.6	15	28	34	34	172	2868.00
THGD24S41S1	2	13.0	3/8	3/4	12.0	20	32	34	34	184	3112.00
THGD30S41S1	2.5	13.0	3/8	3/4	15.4	25	36	34	34	196	3186.00
THGD36S41S1	3	13.0	3/8	3/4	19.6	30	40	34	34	208	3498.00
THGD42S41S1	3.5	13.0	3/8	7/8	28.6	50	40	34	34	208	3582.00
THGD48S41S1	4	13.0	3/8	7/8	30.9	50	40	34	34	275	4254.00
THGD60S41S1	5	13.0	3/8	7/8	37.4	60	40	34	34	280	4862.00

14.5 SEER R-410A

Single-Phase (THJF)

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
THJF024S41S1	2	14.5	3/8	3/4	13.3	20	33.5	37	31	195	4652.00
THJF030S41S1	2.5	14.5	3/8	7/8	22.3	35	39.5	37	31	210	4800.00
THJF036S41S1	3	14.5	3/8	7/8	27.9	45	39.5	37	31	260	4952.00
THJF042S41S1	3.5	14.5	3/8	7/8	28.6	50	39.5	37	31	270	5500.00
THJF048S41S1	4	14.5	3/8	7/8	27.9	50	39.5	37	31	275	5828.00
THJF060S41S1	5	14.5	3/8	7/8	33.5	50	39.5	37	31	280	6334.00

15 SEER R-410A

Single-Phase (HL5)

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
HL5B024F1	2	15.0	3/8	3/4	18.6	30	33.5	31	37	270	4652.00
HL5B036F1	3	15.0	3/8	3/4	24.7	40	39.5	31	37	290	4952.00
HL5B048F1	4	15.0	3/8	7/8	27.9	45	39.5	31	37	310	5828.00
HL5B060F1	5	15.0	3/8	7/8	37.9	60	39.5	31	37	315	6334.00

18 SEER R-410A

Single-Phase (HL8)

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
HL8B024F1	2	18.0	3/8	3/4	18.2	30	39.5	42	34	275	6182.00
HL8B036F1	3	18.0	3/8	3/4	23.6	40	39.5	42	34	275	6580.00
HL8B048F1	4	18.0	3/8	7/8	29.2	50	39.5	42	34	280	7162.00
HL8B060F1	5	18.0	3/8	7/8	34.8	60	39.5	42	34	315	7576.00

Air Handlers



Luxaire offers top quality, highly efficient air handlers for use in virtually any application, and are available for installation in practically any authorized location.

- * Compact units fit easily into crawlspaces and attic openings.
- * Single piece cabinet has fewer seams.
- * Positive slope drain
- * Built in filter rack.
- * Nominal 400 CFM per ton at 0.5 ESP.
- * Easily convert to right or left horizontal applications.
- * Electric heaters, from 2.5 KW to 25 KW

Single Piece Air Handlers AHP

R22 / R410A

208 Single-Phase

Model	Nominal Ton	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
						H	W	D		
AHP18B3XH21	1.5	3/8	3/4	2.1	15	46	17.5	22	125	1148.00
AHP24B3XH21	2	3/8	3/4	1.8	15	46	17.5	22	129	1202.00
AHP30B3XN21	2.5	3/8	3/4	2.5	15	46	17.5	22	136	1364.00
AHP36C3XN21	3	3/8	7/8	4.1	15	52	21	22	159	1536.00
AHP42C3XN21	3.5	3/8	7/8	4.3	15	52	21	22	161	1648.00
AHP48D3XN21	4	3/8	7/8	4.3	15	57	24.5	22	179	1912.00
AHP60D3XN21	5	3/8	7/8	9.5	15	57	24.5	22	182	2282.00

R22 / R410A

Variable Speed

208 Single-Phase

Model	Nominal Ton	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
						H	W	D		
AVL24B3XN21	2	3/8	3/4	2.8	15	46	17.5	22	134	2084.00
AVL36C3XN21	3	3/8	7/8	4.8	15	52	21	22	164	2418.00
AVL48D3XN21	4	3/8	7/8	5.5	15	57	24.5	22	185	2874.00
AVL60D3XN21	5	3/8	7/8	9.5	15	57	24.5	22	188	3000.00

Heater Kits

Single-Phase

Model	Heater Size KW	Min Cir amps 208 v	Max o.c.p amps 208v	Overcurrent Protection	Use with AHP size	Weight	Cubic Feet	List Price
4HK16500206	2.5	13.5	15	B	018-024	12	2.5	230.00
4HK16500506	5	23.8	25	B	018-060	12	2.5	238.00
4HK16500806	7.5	36.0	40	B	018-060	12	2.5	285.00
4HK16501006	10	40.0	45	B	024-060	12	2.5	300.00
4HK16501506	15	67.5	70	B	036-060	12	2.5	420.00
4HK16502006	20	90.9	100	B	042-060	12	2.5	500.00
4HK16502506	25	117.8	125	B	060	12	2.5	592.00

B = Breaker



Luxaire offers evaporator coils for cooling and heat pumps applications. They are engineered to match with Luxaire cooling and heat pump outdoor units.

- * Horizontal applications
- * Full cased
- * Coil casing are made of pre-painted steel to resist rust.
- * Staggered rows of rifled copper tubes provide optimum moisture removal and high performance.

Modular Air Handlers (MA,MV)

208/230 1 Phase

Multi-Speed

Model	Matching Multi-Pos Coil	Nominal Capacity (tons)	Nominal CFM	Application	Electric Available (kW)	Dimensions (inches)			Weight	Liquid Line (inches)	Suction Line (inches)	List
						H	W	D				
MA08BN21	call	2	800	AC & HP	2, 5, 7.5, 10	25	17.5	22	122	3/8	5/8	744.00
MA12BN21	call	2.5, 3	1200	AC & HP	5, 7.5, 10, 15	25	17.5	22	126	3/8	3/4	800.00
MA14DN21	call	3-1/2, 4	1400	AC & HP	5, 7.5, 10, 15	25	24.5	22	126	3/8	7/8	922.00
MA16CN21	call	3-1/2, 4	1600	AC & HP	5, 7.5, 10, 15	25	21	22	133	3/8	7/8	872.00
MA20DN21	call	4,5	2000	AC&HP	10,15,19	25	24.5	22	156	3/8	7/8	952.00

208/230 1 Phase

Variable Speed

MV12BN21	N1VSB1206	1-1/2, 2	1200	AC & HP	5, 7.5, 10, 15, 19	25	17-1/2	22	122	3/8	5/8	1832.00
MV12DN21	N1VSB1206	2-3	1200	AC & HP	5, 7.5, 10, 15, 19	25	24.5	22	126	3/8	5/8	1920.00
MV16CN21	N1VSC1606	2-1/2- 4	1600	AC & HP	5, 7.5, 10, 15, 19	25	21	22	133	3/8	3/4	1996.00
MV20DN21	N1VSD2006	3.5-5	2000	AC & HP	10, 15, 19	25	24.5	22	156	3/8	3/4	2474.00

Heater Kits

Single-Phase

Model	Heater Size KW	Overcurrent Protection	Use with AHP size	Weight	Cubic Feet	Price Net
4HK16500206	2.5	B	018-024	12	2.5	230.00
4HK16500506	5	B	018-060	12	2.5	238.00
4HK16500806	7.5	B	018-060	12	2.5	285.00
4HK16501006	10	B	024-060	12	2.5	300.00
4HK16501506	15	B	036-060	12	2.5	420.00
4HK16502006	20	B	042-060	12	2.5	500.00
4HK16502506	25	B	060	12	2.5	592.00

B= Breaker

Evaporator Coils



Evaporator Coils (MC) Cased Coils

Multi-Position (MC)

Model	Nominal Capacity Range	Application	Factory Installed Metering Device	Matching Furnaces & Air Handlers (Cabinet Width)	Dimensions (inches)			Liquid Line (inches)	Suction Line (inches)	Approximate Operating Weight (lbs.)	List Price
					H	W	D				
MC18A3XH1	1-1/2, 2	AC & HP	Orifice	"A" (14-1/2")	22	14-1/2	22	3/8	3/4	53	612.00
MC18B3XH1	1-1/2, 2	AC & HP	Orifice	"B" (17-1/2")	22	17-1/2	22	3/8	3/4	53	634.00
MC24A3XH1	2	AC & HP	Orifice	"A" (14-1/2")	26.5	14-1/2	22	3/8	3/4	56	702.00
MC24B3XH1	2	AC & HP	Orifice	"B" (17-1/2")	26.5	17-1/2	22	3/8	3/4	56	684.00
MC30A3XH1	2-1/2	AC & HP	Orifice	"A" (14-1/2")	26.5	14-1/2	22	3/8	3/4	56	712.00
MC30B3XH1	2-1/2	AC & HP	Orifice	"B" (17-1/2")	26.5	17-1/2	22	3/8	3/4	56	788.00
MC35B3XH1	2-1/2, 3-1/2	AC & HP	Orifice	"B" (17-1/2")	22	17-1/2	22	3/8	3/4	44	828.00
MC35C3XH1	2-1/2, 3-1/2	AC & HP	Orifice	"C" (21")	26.5	21	22	3/8	3/4	58	880.00
MC36A3XH1	3	AC & HP	Orifice	"A" (14-1/2")	26.5	14-1/2	22	3/8	7/8	64	796.00
MC36B3XH1	3	AC & HP	Orifice	"B" (17-1/2")	26.5	17-1/2	22	3/8	7/8	65	840.00
MC36C3XH1	3	AC & HP	Orifice	"C" (21")	26.5	21-1/2	22	3/8	7/8	65	878.00
MC42B3XH1	3-1/2	AC & HP	Orifice	"B"(17-1/2)	32	17-1/2	22	3/8	7/8	72	898.00
MC42C3XH1	3-1/2	A/C & HP	Orifice	"C"(21)	32	21-1/2	22	3/8	7/8	72	954.00
MC48C3XH1	4	A/C & HP	Orifice	"D"(24)	32	24	22	3/8	7/8	82	1064.00
MC48D3XH1	4	A/C & HP	Orifice	"C"(24)	32	24	22	3/8	7/8	82	1086.00
MC60D3XH1	5	A/C & HP	Orifice	"D"(24)	36	24	22	3/8	7/8	86	1162.00

Uncased Upflow

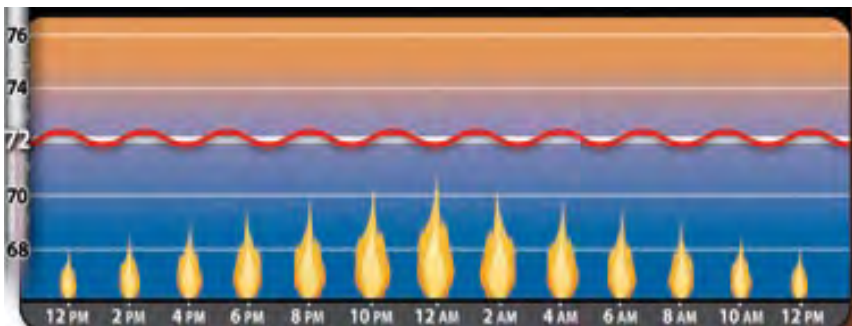
Model	Nominal Capacity Range	Application	Factory Installed Metering Device	(Coil Width)	Dimensions (inches)		Liquid Line (inches)	Suction Line (inches)	Approximate Operating Weight (lbs.)	List Price
					H	D				
HE30424A14	1-1/2, 2	AD & HP	Orifice	14	14-5/8	19-7/8	3/8	3/4	20	410.00
HE31430A15	2, 2-1/2	AC & HP	Orifice	15	16-3/8	19-7/8	3/8	3/4	26	450.00
HE32436A17	2.5,3	AC & HP	Orifice	17	16-1/2	19-7/8	3/8	3/4	29	480.00
HE35442A17	3, 3.5	AC & HP	Orifice	17	18-1/2	19-7/8	3/8	3/4	31	570.00
HE36448A20	3.5,4	AC & HP	Orifice	20	19-3/8	19-7/8	3/8	3/4	32	640.00
HE48460A20	4,5	AC & HP	Orifice	20	27		3/8	7/8	32	720.00

Modulating technology to help you stay in your comfort zone.

The colder it is outside, the more heat your home loses, creating additional demand on your heating system. Depending on the time of day, and the type of furnace you have, your home can experience drastic temperature fluctuations. Understanding the differences between furnace types will help you make the right choice to stay in your comfort zone.



Modulating Gas Furnace



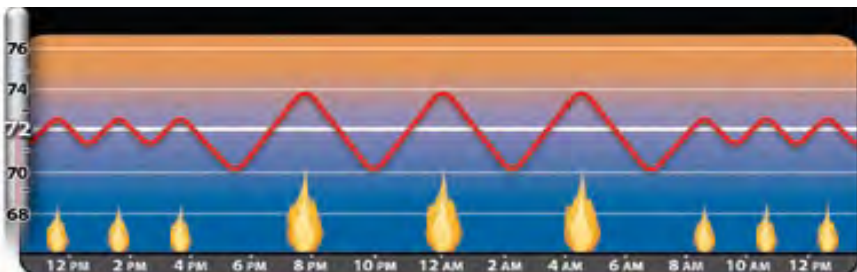
Ideal 72 Degree Thermostat setting

The Luxaire Acclimate modulating gas furnace has been designed to maintain temperature by modulating in one percent increments. Comfort is dramatically increased as the furnace adjusts its level of operation up or down to offset the rate at which heat leaves your home.

Packed with great features :

- Precision temperature control
- Better energy efficiency
- Quieter operation

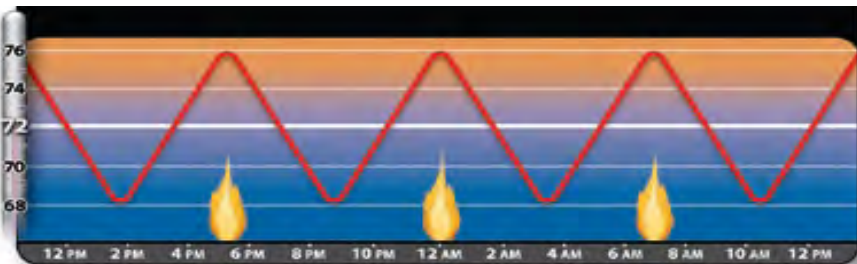
Two-Stage Gas Furnace



Ideal 72 Degree Thermostat setting

Two-stage gas furnaces offer an intermediate level of performance. Operation varies between first and second stage based on demand. However, indoor temperature levels still fluctuate, relative to your thermostat setting.

Single-Stage Gas Furnace



Ideal 72 Degree Thermostat setting

Traditional single-stage gas furnaces operate much like a light bulb—either on or off. This can create wide and uncomfortable temperature fluctuations in your home.



33-inch Multi Position Gas Furnace

- Compact, easy to install 33" height
- Multi Position
- Built in self diagnostics
- Double folded edges
- Sealed doors reduce leakage
- Blower motor and control box conveniently located on a slide out rack

High Efficiency Single Stage (TG9S)

High Efficiency Single Stage W/ECM Motor (TM9X)

Modulating Variable Speed (LP9C)

Single-Stage 95% Multi Position (TG9S)

Model	Heating Capacity		AUE %	Dimensions (inches)			Supply Plenum (inches)	Approximate Operating Weight (lbs.)	Nominal CFM	List Price
	Input Mbh	Output Mbh		H	W	D				
TG9S040A08MP11	40	38	95	33	14.5	29	20X13.5	95	800	1710.00
TG9S060A10MP11	60	57	95	33	14.5	29	20X13.5	110	1000	1770.00
TG9S060B12MP11	60	57	95	33	14.5	29	20X13.5	120	1200	1800.00
TG9S080B12MP11	80	76	95	33	17.5	29	20X16.5	129	1200	1896.00
TG9S080C16MP11	80	76	95	33	21	29	20X19.75	140	1600	2060.00
TG9S080C22MP11	80	76	95	33	21	29	20X19.75	156	2200	2096.00
TG9S100C16MP11	100	95	95	33	21	29	20X19.75	145	1600	2152.00
TG9S100C20MP11	100	95	95	33	21	29	20X19.75	156	2000	2244.00
TG9S120D16MP11	120	114	95	33	24.5	29	20X23.25	160	1600	2302.00
TG9S120D20MP11	120	114	95	33	24.5	29	20X23.25	170	2000	2338.00
TG9S130D20MP11	130	123	95	33	24.5	29	20X23.25	190	2000	2432.00

95 % Multi Position (TM9X) W / ECM Motor

Model	Heating Capacity		AUE %	Dimensions (inches)			Supply Plenum (inches)	Approximate Operating Weight (lbs.)	Nominal CFM	List Price
	Input Mbh	Output Mbh		H	W	D				
TM9X060B12MP11	60	57	95	33	14.5	29	20X13.5	120	1200	2074.00
TM9X080B12MP11	80	76	95	33	17.5	29	20X16.5	129	1200	2128.00
TM9X080C16MP11	80	76	95	33	21	29	20X19.75	140	1600	2400.00
TM9X100C16MP11	100	95	95	33	21	29	20X19.75	156	1600	2510.00
TM9X100C20MP11	100	95	95	33	21	29	20X19.75	160	2000	2618.00
TM9X120D20MP11	120	114	95	33	24.5	29	20X19.75	190	2000	2702.00

Mod Variable Speed 97% Multi Position (LP9C)

Model	Heating Capacity		AUE %	Dimensions (inches)			Supply Plenum (inches)	Approximate Operating Weight (lbs.)	Nominal CFM	List Price
	Input Mbh	Output Mbh		H	W	D				
LP9C060B12MP11	60	mod	97	33	14.5	29	20X13.5	120	1200	3640.00
LP9C080B12MP11	80	mod	97	33	17.5	29	20X16.5	129	1200	3778.00
LP9C080C16MP11	80	mod	97	33	21	29	20X19.75	140	1600	3846.00
LP9C100C16MP11	100	mod	97	33	21	29	20X19.75	156	1600	3984.00
LP9C100C20MP11	100	mod	97	33	21	29	20X19.75	160	2000	4054.00
LP9C120D20MP11	120	mod	97	33	24.5	29	20X19.75	190	2000	4190.00

Variable Speed Gas Furnace

- Compact, easy to install 33" height
- Built in self diagnostics
- Double folded edges
- Sealed doors reduce leakage
- Blower motor and control box conveniently located on a slide out rack



High Efficiency Gas Furnace (TM9V) 2 Stage Variable Speed

Variable Speed 96% Multi position (TM9V)

Model	Heating Capacity		AUE %	Dimensions (inches)			Supply Plenum (inches)	Approximate Operating Weight (lbs.)	Nominal CFM	List Price
	Input Mbh	Output Mbh		H	W	D				
TM9V060B12UP11	60	55	96	40	17.5	28.5	20X16.5	135	1200	2852.00
TM9V080B12UH11	80	75	96	40	17.5	28.5	20X13.5	120	1200	2998.00
TM9V080C16UP11	80	75	96	40	21	28.5	20X19.75	157	1600	3078.00
TM9V100C16MP11	100	95	96	40	21	28.5	20X19.75	170	1600	3252.00
TM9V100C20UH11	100	95	96	40	21	28.5	20X19.75	170	2000	3304.00
TM9V120D20UH11	120	112	96	40	24.5	28.5	20X23.25	180	2000	3584.00

Ipex 636 Gas Venting



636 Venting

	PVC up to 65 deg C	List Price
194000	2" PVC Pipe 10' Length	32.08
194001	3" PVC Pipe 10' Length	74.84
196122	2" PVC 90 Deg Elbow	3.88
196123	3" PVC 90 Deg Elbow	10.70
196242	2" PVC 45 Deg Elbow	3.20
196243	3" PVC 45 Deg Elbow	8.96
196352	2" PVC Coupler	2.14
196353	3" PVC Coupler	5.08
196364	3 - 2 PVC Adapter	8.02
196041	PVC Cement QT	22.86
196043	PVC Primer QT	24.72
196040	PVC Cement PT	13.64
196042	PVC Primer PT	15.36

Luxaire® Single Package (DPZ) R410



Efficiency Ratings
13 + SEER / 80% AFUE

Nominal Capacities

24 to 60 Mbh

Nominal airflow of 800 to 1550 CFM is provided by 3-speed, direct drive, high static motors. To make installations and maintenance easier, they offer field-convertible side or bottom airflow, removable base rails, and bottom electrical and gas connections. All models have the same footprint, so curbs can be placed and the proper tonnage unit can be installed after the internal load has been determined. The compact dimensions allow any model to fit between the wheel wells of a full size pickup truck for transport.

Single Package Cooling or Gas Heat (DPZ) R410

Model	Size	AUE %	Approximate Operating Weight (lbs.)	Dimensions W x D	Available Cooling (tons)	Price
DPZ-F024N045	24	13 SEER	365	49 x 47	2 TON	Call
DPZ-F030N070	30	13 SEER	365	49 x 47	2.5 TON	Call
DPZ-T030N070	30	13 SEER	365	49 x 47	2.5 TON	Call
DPZ-F036N090	36	13 SEER	365	49 x 47	3 TON	Call
DPZ-T036N090	36	13 SEER	365	49 x 47	3 TON	Call
DPZ-X036N090	36	13 SEER	365	49 x 47	3 TON	Call
DPZ-F042N110	42	13 SEER	365	49 x 47	3.5 TON	Call
DPZ-T042N090	42	13 SEER	365	49 x 47	3.5 TON	Call
DPZ-X042N090	42	13 SEER	365	49 x 47	3.5 TON	Call
DPZ-F048N135	48	13 SEER	365	49 x 47	4 TON	Call
DPZ-T048N135	48	13 SEER	365	49 x 47	4 TON	Call
DPZ-X048N135	48	13 SEER	365	49 x 47	4 TON	Call
DPZ-F060N135	60	13 SEER	365	49 x 47	5 TON	Call
DPZ-T060N135	60	13 SEER	365	49 x 47	5 TON	Call
DPZ-X060N135	60	13 SEER	365	49 x 47	5 TON	Call



Efficiency Ratings
13 + SEER / 80% AFUE

Nominal Capacities

24 to 60 Mbh

Nominal airflow of 800 to 1550 CFM is provided by 3-speed, direct drive, high static motors. To make installations and maintenance easier, they offer field-convertible side or bottom airflow, removable base rails, and bottom electrical and gas connections.

All models have the same footprint, so curbs can be placed and the proper tonnage unit can be installed after the internal load has been determined. The compact dimensions allow any model to fit between the wheel wells of a full size pickup truck for transport.

Single Package Gas Heating/Electric Cooling or Gas Heat (DYZ) R410

Model	Heating Capacity		AUE %	Approximate Operating Weight (lbs.)	Dimensions W x D	Available Cooling (tons)	Price
	Input Mbh	Output Mbh					
DYZ-F024N045	45	36	13 SEER	365	49 x 47	2 TON	Call
DYZ-F030N070	70	56	13 SEER	365	49 x 47	2.5 TON	Call
DYZ-T030N070	70	56	13 SEER	365	49 x 47	2.5 TON	Call
DYZ-F036N090	90	72	13 SEER	365	49 x 47	3 TON	Call
DYZ-T036N090	90	72	13 SEER	365	49 x 47	3 TON	Call
DYZ-X036N090	90	72	13 SEER	365	49 x 47	3 TON	Call
DYZ-F042N110	110	88	13 SEER	365	49 x 47	3.5 TON	Call
DYZ-T042N090	90	72	13 SEER	365	49 x 47	3.5 TON	Call
DYZ-X042N090	90	72	13 SEER	365	49 x 47	3.5 TON	Call
DYZ-F048N135	135	108	13 SEER	365	49 x 47	4 TON	Call
DYZ-T048N135	135	108	13 SEER	365	49 x 47	4 TON	Call
DYZ-X048N135	135	108	13 SEER	365	49 x 47	4 TON	Call
DYZ-F060N135	135	108	13 SEER	365	49 x 47	5 TON	Call
DYZ-T060N135	135	108	13 SEER	365	49 x 47	5 TON	Call
DYZ-X060N135	135	108	13 SEER	365	49 x 47	5 TON	Call

Notes



ComfortStar®

Air Conditioning and Heating

A/C and Heat Pumps

14 SEER R410a
Efficiencies up
to 14 SEER in
specific match-ups
Nominal Sizes 1 1/2 to 5 Ton

ComfortStar - High Efficiency Condensing

Units warrant state-of-the-art technology, optimum cooling with long lasting reliability. Compact design with attractive appearance and the quietest performance in it's class. Obtain the excellence in comfort when installed in single, multi-family and light commercial applications. MAH Series contains R410a, a chlorine-free refrigerant, in accordance with the EPA's newest environmental guidelines. It increases system efficiency and has zero ozone depletion potential. One of the best Manufacturer's Limited Warranties in the industry is offered for added protection. Details are in our web site, we welcome you to contact our offices.



Standard features:

- R410a system
- High efficiency compressor
- Compact design for easy installation and transportation
- Ultra quiet
- Factory installed liquid line filter drier
- Pre-charged R410a good for 25' of lineset
- Brass liquid and suction service valves with sweat connections
- Contactor with lug connections
- Ground lug connection
- Terminal block provided for low voltage connections
- Copper Tube-Aluminum Fin Coil used on all models
- ARI certified
- ETL listed



- Removable top grille for easy access to fan motor and coil without disconnecting the wires



- Easy access to service valves and electrical connections



- All refrigerant connections are on the exterior of the unit, located close to the ground for a clean appearing installation



- Heavy gauge galvanized steel with gray powder paint finish meet 1000 hour salt spray testing
- Fully louvered coil guard to protect the inside coil from yard hazards and weather extremes



Air Conditioning Units

14 SEER R410a
Efficiencies up
to 14 SEER in
specific match-ups
Nominal Sizes 1 1/2 to 5 Ton



MAH/ADA2 Series

R410a | Efficiencies up to 14 SEER in specific match-ups | Nominal
Sizes 1 1/2 to 5 Ton

Standard features:

- R410a system
- High efficiency compressor
- Compact design for easy installation and transportation
- Ultra quiet
- Factory installed liquid line filter drier
- Pre-charged R410a good for 25' of lineset
- Brass liquid and suction service valves with sweat connections
- Contactor with lug connections
- Ground lug connection
- Terminal block provided for low voltage connections
- Copper Tube-Aluminum Fin Coil used on all models
- ARI certified
- ETL listed

14 SEER R410A

Single-Phase

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
ADA2-18-410	1.5	14.0	3/8	3/4	9.7	15	25	22	22	120	1470.00
ADA2-24-410	2	14.0	3/8	3/4	11.9	20	25	24	24	130	1562.00
ADA2-30-410	2.5	14.0	3/8	3/4	14.9	30	25	28	28	160	1668.00
MAH-36-410	3	14.0	3/8	3/4	18.0	30	25	28	28	160	1618.00
MAH-42-410	3.5	14.0	3/8	3/4	22.1	40	30	28	28	190	1882.00
MAH-48-410	4	14.0	3/8	7/8	24.7	40	33	28	28	200	2194.00
ADA2-60-410	5	14.0	3/8	7/8	29.1	50	33	30	30	230	2782.00

ComfortStar®

Heat Pump Units

14 SEER R410a
Efficiencies up
to 14 SEER in
specific match-ups
Nominal Sizes 1 1/2 to 5 Ton



MHH/ADH2 Series

R410a | Efficiencies up to 14 SEER in specific match-ups | Nominal
Sizes 1 1/2 to 5 Ton

Standard features:

- R410a system
- High efficiency compressor
- Compact design for easy installation and transportation
- Ultra quiet
- Factory installed liquid line filter drier
- Pre-charged R410a good for 25' of lineset
- Brass liquid and suction service valves with sweat connections
- Contactor with lug connections
- Ground lug connection
- Terminal block provided for low voltage connections
- Copper Tube-Aluminum Fin Coil used on all models
- ARI certified
- ETL listed

14 SEER R410A

Single-Phase

Model	Nominal Ton	Cooling Seer	Liquid Line (inches)	Suction Line (inches)	Minimum Circuit Ampacity	Maximum Overcurrent Protection Device (amps)	Dimensions (inches)			Approximate Operating Weight (lbs.)	List Price
							H	W	D		
ADH2-18-410	1.5	14.0	3/8	3/4	9.7	15	25	22	22	120	1948.00
ADH2-24-410	2	14.0	3/8	3/4	12.0	20	25	24	24	130	2044.00
ADH2-30-410	2.5	14.0	3/8	3/4	14.9	30	25	28	28	160	2078.00
MHH-36-410	3	14.0	3/8	3/4	18.0	30	25	28	28	160	2104.00
MHH-42-410	3.5	14.0	3/8	3/4	23.6	40	30	28	28	190	2350.00
MHH-48-410	4	14.0	3/8	7/8	24.7	40	33	28	28	200	2534.00
ADH2-60-410	5	14.0	3/8	7/8	29.1	50	33	30	30	230	3158.00





FR Series Fans

Fantechs versatile FR Series fans feature a plastic housing constructed of UL-recognized, UV-protected thermoplastic resin. This tough protective shell allows the fan to be mounted in outdoor and wet locations.

5 year warranty

FR Fans

Model	Approx	Energy Star	Dimensions			Approximate Operating Weight (lbs.)	Duct size (inch)	List Price
	CFM		Length	Width	Height			
FR100	122	Y	11	11	11	6	4	304.00
FR110	167	Y	11	11	11	7	4	334.00
FR125	148	Y	11	11	11	6	5	316.00
FR140	214	Y	13	13	11	8	6	306.00
FR150	263	Y	13	13	11	8	6	344.00
FR160	289	-	13	13	11	8	6	426.00
FR200	408	Y	14	14	15	10	8	472.00
FR225	429	Y	14	14	15	11	8	538.00
FR250	649	-	14	14	15	13	10	632.00

Larger CFM models also available : Call for pricing

Air Exchanger



- Selection of three operating speeds and two operating modes.
- Continuous ventilation at low or medium speed
- Automatic high speed air exchange, controlled by dehumidistat
- Intermittent ventilation at the flick of a switch on appliance

Model	CFM	Weight	inches			List
			L	W	H	
AEV 1000	120	25	36	28	34	656.00

Wall Controls

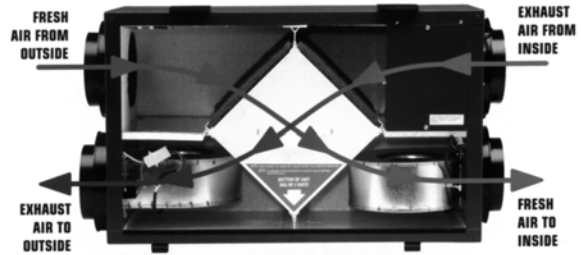
Model	Description	List
MDEH-1	2-Wire Dehumidistat	45.24
MDEH-2	4-Wire Dehumidistat	78.00
RTS-2	20 Min push button timer	45.24



Fantech

Heat Recovery Ventilators

SHR Series

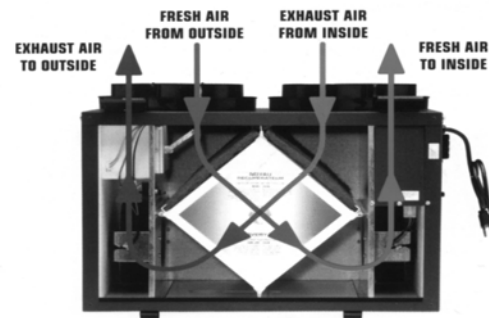


- Simple yet sophisticated design makes these units the most reliable HRVs on the market
- Aluminum cores
- ECM motors with backward incline impellers
- Steep fan curves for superior airflow performance minimizes the need to balance
- Insulated with 1" foil faced polystyrene foam

SHR Series data

Model	Approx	Amp Rating	Dimensions			Approximate Operating Weight (lbs.)	Warranty (Years)	List Price
	CFM		Length	Depth	Height			
SHR 1504	50-149	1.5A	23.5	17.5	16	n/a	5	1388.00
SHR 2004	60-200	1.6A	23.5	17.5	17	n/a	5	1704.00
SHR 1505R	50-150	1.5A	28	17.5	20.5	n/a	5	1684.00
SHR 2005R	70-200	1.6A	51	17.5	22	n/a	5	2100.00
SHR 3005R	108-294	2.7A	28	25	20.5	n/a	5	2915.00

VHR Series



VHR Series data

Model	Approx	Amp Rating	Dimensions			Approximate Operating Weight (lbs.)	Warranty (Years)	List Price
	CFM		Length	Depth	Height			
VHR 1404	50-149	1.5A	22.5	10.5	15	n/a	5	1388.00
VHR 2004	60-200	1.6A	24	17	16	n/a	5	1704.00
VHR 1405R	50-150	1.5A	24	17	16	n/a	5	1684.00
VHR 2005R	70-200	1.6A	28	17	20.5	n/a	5	2100.00



Air Curtains - with or without Heat

Model	with or without heat	Warranty yrs	Dimensions			Shipping Weight	List Price
	Description		Length	Width	High		
AC 3600/1	36 " unheated	5	41	14	13	24	1272.00
AC 4800/1	48 " unheated	5	62	14	13	29	1372.00
AS 4006/1	39 " w/6kw heat 1ph	5	41	14	13	44	1958.00
AS 4006/3	39 " w/6kw heat 3 ph	5	41	14	13	44	1958.00
AS 4009/1	39 " w/9kw heat	5	41	14	13	47	2200.00
AS 4009/3	39" w9kw heat 3ph	5	41	14	13	47	2200.00
AS 6008/1	59" w8kw heat 1ph	5	62	14	13	69	2854.00
AS 6008/3	59" w8kw heat 3ph	5	62	14	13	75	2854.00
AS 6012/3	59" w12kw heat 3ph	5	62	14	13	76	2972.00

Options for Air Curtains

AS DS	Door Switch 115 -230v plunger syle	5	6	3	4	2	156.20
AS TS	Thermostat 2 stage for heated units	5	3	3	4	2	109.34

Notes



UHA - Series Unit Heaters



UHA-Series is a axial fan,tubular unit heater that is available for burning either natural gas or propane. There is a broad range of options available including seperated combustion or non seperated combustion and stainless steel exchanger configurations. Seperated combustion units are suitable for applications where there is contaminant in the air of the heater space. Optional stainless steel heat exchangers provide longer life of the heater with less maintenance. The UHA-Series also offers variable air throw direction with adjustable horizontal louvers and optional adjustable vertical louvers. Also units have reliable ignition with direct spark burners.

The low-profile models are ideal for smaller spaces, and some are approved for residential use. Installation and operation flexibility with rear or top air and flue connections, are available on the low profile models only.

Power Vented Spark Ignition

Model	Heating Capacity Input Mbh	AUE %	Dimensions (inches)			Approximate Operating Weight (lbs.)	Flue Diameter (inches)	Nominal CFM	List Price
			H	W	D				
BNUHA-30	30	82	12	28.5	20.2	65	4	691	1410.00
BNUHA-45	45	82	12	28.5	20.2	70	4	1376	1495.00
BNUHA-60	60	82	17.7	28.5	20.2	85	4	1376	1580.00
BNUHA-75	75	82	17.7	28.5	20.2	90	4	1902	1645.00
BNUHA-100	100	82	23	28.5	20.2	105	4	1902	1780.00
BNUHA-125	125	82	23	28.5	20.2	110	4	2245	1915.00
BNUHA-150	150	82	27	43	30	205	4	2245	2080.00
BNUHA-175	175	82	27	43	30	225	4	3716	2250.00
BNUHA-200	200	82	35.2	43	32	255	4	3716	2408.00
BNUHA-225	225	82	35.2	43	32	265	4	3716	2600.00
BNUHA-250	250	82	35.2	43	32	270	4	3716	2800.00
BNUHA-300	300	82	43.5	50	30	355	4	4663	3385.00
BNUHA-350	350	82	43.5	50	30	375	4	4663	3840.00
BNUHA-400	400	82	43.5	50	30	375	4	4663	4135.00

Seperated Combustion Spark Ignition

Model	Heating Capacity Input Mbh	AUE %	Dimensions (inches)			Approximate Operating Weight (lbs.)	Flue Diameter (inches)	Nominal CFM	List Price
			H	W	D				
BNUHAS-30	30	82	12	28.5	20.2	65	4	691	1665.00
BNUHAS-45	45	82	12	28.5	20.2	70	4	1376	1885.00
BNUHAS-60	60	82	17.7	28.5	20.2	85	4	1376	2150.00
BNUHAS-75	75	82	17.7	28.5	20.2	90	4	1902	2225.00
BNUHAS-100	100	82	23	28.5	20.2	105	4	1902	2545.00
BNUHAS-125	125	82	23	28.5	20.2	110	4	2245	2825.00
BNUHAS-150	150	82	27	43	30	205	4	2245	3155.00
BNUHAS-175	175	82	27	43	30	225	4	3716	3230.00
BNUHAS-200	200	82	35.2	43	32	255	4	3716	3460.00
BNUHAS-225	225	82	35.2	43	32	265	4	3716	3940.00
BNUHAS-250	250	82	35.2	43	32	270	4	3716	4145.00
BNUHAS-300	300	82	43.5	50	30	355	4	4663	4445.00
BNUHAS-350	350	82	43.5	50	30	375	4	4663	4845.00
BNUHAS-400	400	82	43.5	50	30	375	4	4663	5308.00

Vent Kits

Model	Concentric Vent Kit	
	Use With	List Price
UHVK1	Uhas30-250	550.00
UHVK2	Uhas300-400	598.00

BANANZA

Direct-Fired Make Up Air Units



- 1,000 to 40,000 CFM
- Ideal for most commercial / industrial applications
- Horizontal, vertical, and suspension configurations
- Evaporative cooling available
- 100% outdoor air, 80% return air / 20% outdoor air arrangements.
- 100% models ETL certified in Canada

Indirect-Fired Make Up Air Units

- 3,500 to 57,000 CFM
- Extensive range of Btu/h and CFM selections offer versatility
- Horizontal or vertical configurations
- 100% outdoor air or variable return air / outdoor air arrangements
- Evaporative and DX cooling available
- All models ETL certified in Canada



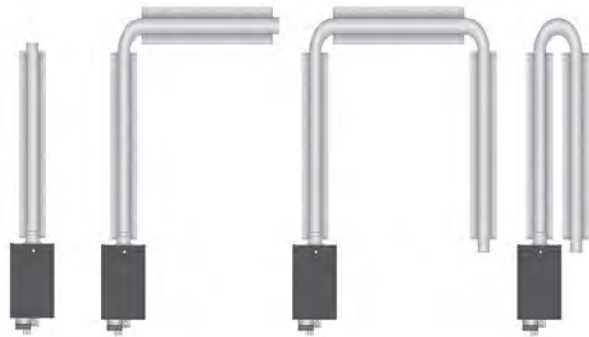
BANANZA

BH - Series Infrared Heaters

The BH is the economical, positive pressure gas fired, low-intensity infrared unitary heater.

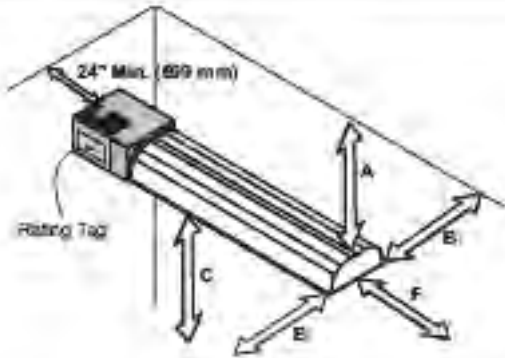
Designed to fit any floor plan, the BH is available in a broad range of inputs and lengths including straight, "U" or "L" configurations. Our deep dish, high efficiency aluminum reflectors can be tilted at a 45 degree angle to allow customers to concentrate heat where needed. The BH contains a safety pressure switch, so the unit cannot fire unless motor/blower is operating. Hinged door design allows easy access to electrical components minimizing service time.

The BH is available in natural gas or propane and can be used in loading docks, vehicular service facilities, retail applications and more.



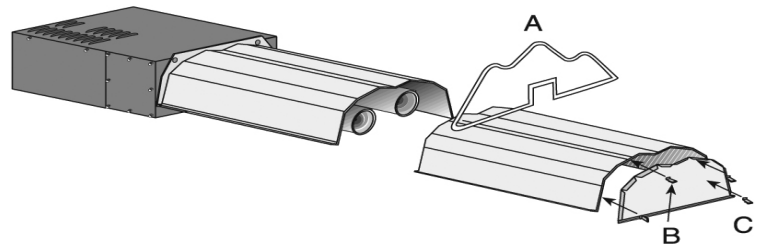
Natural Gas or Propane

Model	Tube	AUE %	Rec Mounting Height		Approximate Operating Weight (lbs.)	Flue Diameter (inches)	List Price
	Package		Min	Max			
BH-40X10	CP10	82	8	10	81	4	1815.00
BH-60X20	CP20	82	10	12	115	4	2109.00
BH-80X20	CP20	82	12	15	115	4	2109.00
BH-80X30	CP30	82	12	15	149	4	2295.00
BH-100X30	CP30	82	12	15	149	4	2295.00
BH-100X40	CP40	82	12	15	190	4	2520.00
BH-125X40	CP40	82	15	20	190	4	2540.00
BH-125X50	CP30-EXP20	82	15	20	235	4	2895.00
BH-150X50	CP30-EXP20	82	20	25	235	4	2905.00
BH-150X60	CP30-EXP30	82	20	25	269	4	3150.00
BH-175X50	CP30-EXP20	82	25	+	235	4	2847.00
BH-175X60	CP30-EXP30	82	25	+	269	4	3095.00
BH-200X60	CP30-EXP30	82	25	+	269	4	3085.00
BH-200X70	CP40-EXP30	82	25	+	310	4	3350.00
BH-200X80	CP40-EXP40	82	25	+	351	4	3615.00



Low-intensity Infrared Heaters

- Approved for residential and commercial applications
- Factory-assembled for easy installation
- Longer life provided by durable components
- Compact u-tube design provides maximum inputs at minimum lengths
- One building penetration balanced for both exhaust and combustion air
- Ceiling mounted to free valuable work space



Natural Gas or Propane

Model	Clearances inches					
	A	B	C	D	E	F
CGTH-30N	4	16	36	28	34	6
CGTH-40N	4	18	48	30	34	6
CGTH-50N	4	20	48	32	36	6

Natural Gas or Propane

Model	AUE %	Rec Mounting Height		Approximate Operating Weight (lbs.)	Overall Length	Vent Length	List Price
		Residential	Commercial				
CGTH-30N	82	7	8	85	8'0"	10'	2100.00
CGTH-40N	82	7	8	96	11'6"	10'	2290.00
CGTH-50N	82	7	8	96	11'6"	10'	2290.00

Mini Split Air Conditioning



- High efficiency rotary compressors
- Environmentally friendly R410A refrigerant
- Auto swing feature on air direction louvers
- Low noise levels for both indoor and outdoor units
- 2 washable filters
- Remote control
- Built in Low Ambient Kit in TKUH24WM model only

HEAT PUMP SINGLE ZONE R410

Specifications	TKUH12VM	TKUH18WM	TKUH24WM
Nom Heat/Cool BTU	9000/9000	12000/12000	24000/24000
Seer	13	13	13
Hspf	7.7	7.7	7.7
Voltage	115--1ph	208-1ph	208/230-1ph
Breaker size	15A	25A	25A
RLA	6.9a	9.0a	8.6a
INDOOR UNIT			
CFM	360	400	765
Noise level db	41	43	43
Width	35.67"	49.21"	49.21"
Depth	9.25"	9.06"	9.06"
Height	11.26"	12.80"	12.80"
Weight	25.40 lbs	39.70 lbs	39.70 lbs
OUTDOOR UNIT			
Noise level db	55	59	59
Width	35.0"	49.21"	34 1/4"
Depth	11.22"	12.80"	11 3/8"
Height	23.23"	12.08"	33 1/2"
Weight	79.40 lbs	149.9 lbs	149.9 lbs
LINE SETS			
Pipe size (inches)	1/4 & 1/2	1/4 & 1/2	3/8 & 5/8
Max length	45 ft	45 ft	45 ft
Max vertical	20 ft	20 ft	20 ft
Factory Charge 25 ft	0.3 oz	0.3 oz	0.5 oz
List Price	1178.00	1558.00	2340.00



Room Air Products

Portable Air Conditioning Units



Features and Benefits

- Automatic condensation drainage (no tank to empty)
- Up to 10,000-14,000 btu cooling capacity
- 24 hour timer and fully functional remote control
- Dehumidifying mode with multi-speed fan
- Easy to adjust vertical air flow direction
- Easy to remove washable filter
- Easy to move



Portable A/C Units R410

Specifications	MPG-10CRN1-BH9	MPM3-14CRN1-B16
Cool BTU	10000	14000
EER	9.85	9.35
Hspf	7.7	7.7
Voltage	115--1ph	115-1ph
Power consumption	1040w	1300w
RLA	9.85A	9.35
Refrigerant	R22	R22
Exhaust hose	4.3 ft	4.3 ft
Noise level db	54	56
Width	13.1"	18.5"
Depth	20.5"	15.0"
Height	28.4"	33.7"
Weight	66 lbs	95 lbs
List Price	980.00	1110.00

Not Exactly as Shown

Room Air Products

Comfort-Aire

Window Air Conditioning



The RG-51B and RG-61B come with mechanical controls, while all others are digital with remote controls.

- Attractive front grills in stone white color with adjustable air direction
- Easy to access, slide out filters are washable
- Auto restart after a power outage
- Durable galvanized, painted steel cabinets in compact, lightweight sizes

COMPACT-AIRE

Model	Cooling Cap	Approx Sq Ft	Remote Control	Volt	Weight	H in	W in	D in	List Price
RG-51B	5000	150	No	115	44	11 7/8	17 5/16	12 13/16	466.00
RG-61B	5800	210	No	115	50	12 9/32	18 9/16	13 27/32	584.00
RAD-61A	5800	210	Yes	115	52	12 9/32	18 9/16	13 27/32	636.00
RAD-81A	8000	350	Yes	115	54	13 7/8	18 7/16	19 5/32	768.00
RAD-101A	9800	490	Yes	115	80	13 7/8	18 9/16	20 11/16	988.00



- Attractive front grills in stone white color with fourway adjustable air direction
- RAD-141A, 183A, 243A feature automatic louver swing
- Front mounted slide out filters are washable
- Auto restart after a power outage
- Durable galvanized, painted steel cabinets in compact, lightweight sizes

LARGE COMPACT-AIRE

Model	Cooling Cap	Approx Sq Ft	Remote Control	Volt	Weight	H in	W in	D in	List Price
RAD-121A	12000	650	Yes	115	95	14 31/32	23 5/8	22 1/16	1120.00
RAD-123A	11500	650	Yes	208	95	14 31/32	23 5/8	22 1/16	1204.00
RAD-141A	13800	800	Yes	115	96	15	23 5/8	20 9/32	1296.00
RAD-183A	17500	1100	Yes	208/230	110	16 27/32	26	30 5/16	1600.00
RAD-243A	23000	1400	Yes	208/230	160	16 27/32	26	30 5/16	2088.00
RAD-303A	28500	1550	Yes	208/230	215	18 3/32	27 3/4	33 9/32	2874.00
WYB-363-5	35900	2000	Yes	208/230	267	22 1/4	27 1/8	36 3/8	5060.00



- Attractive front grills in stone white color with fourway adjustable air direction
- REG-71A,123A,183A,243A feature automatic louver swing
- Front mounted slide out filters are washable
- Auto restart after a power outage
- Durable galvanized,painted steel cabinets in compact,lightweight sizes

POWER-AIRE WITH ELECTRIC HEAT

Model	Cooling Cap	Heating Cap	Approx Sq Ft	Remote Control	Volt	Weight	H in	W in	D in	List Price
REG-71A	6900	3850	350	Yes	115	95	13 7/8	18 9/16	20 11/16	1282.00
REG-123A	11500	9200	650	Yes	208/230	95	14 31/32	23 5/8	22 1/16	1658.00
REG-183A	17000	9400	1100	Yes	208/230	110	16 27/32	26	30 5/16	2138.00
REG-243A	23000	9400	1500	Yes	208/230	160	16 27/32	26	30 5/16	2538.00

Builders,architects and contractors will appreciate the flexibility of our T-T-W series,including a wall sleeve trim kit .
(Wall sleeve optional)



- Attractive front grills in stone white color with fourway adjustable air direction
- Front mounted slide out filters are washable
- Auto restart after a power outage
- Durable galvanized,painted steel cabinets in compact,lightweight sizes

THRU THE WALL SERIES

Model	Cooling Cap	Heating Cap	Approx Sq Ft	Remote Control	Volt	Weight	H in	W in	D in	List Price
BG-81A	8000	-	350	Yes	115	79	14 13/32	24	20 5/16	1360.00
BG-83A	7800	-	350	Yes	208	84	14 13/32	24	20 5/16	1360.00
BG-101A	10000	-	490	Yes	115	86	14 13/32	24	20 5/16	1496.00
BG-103A	10000	-	490	Yes	208	84	14 13/32	24	20 5/16	1518.00
BG-123A	11200	-	650	Yes	208/230	87	14 13/32	24	20 5/16	1566.00
BGE-103A	9800	9200	450	Yes	208/230	87	14 13/32	25	19 21/32	1618.00
BGE-123A	11200	9200	650	Yes	208/230	87	14 13/32	25	19 21/32	1714.00

EA448 Wall sleeve for BG and BGE series 15 17/32 H x 25 7/8 W x 16 23/32 D \$ 194.00

Room Air Products

Comfort-Aire



Solving a common room air conditioning problem, Comfort-Aires Casement series is designed for horizontal sliding or casement windows. These units fit windows 21" to 42" high and starting at 15 1/2 wide.

- Attractive front grills in stone white color with fourway adjustable air direction
- The filter can be quickly accessed and cleaned.
- 12 hour on/off timer
- Auto restart after a power outage
- Durable galvanized, painted steel cabinets in compact, lightweight sizes

CASEMENT SERIES

Model	Cooling Cap	Approx Sq Ft	Remote Control	Volt	Weight	H in	W in	D in	List Price
CD-101-5	10000	490	Yes	115	93	20 1/2	14 1/2	23	1646.00
CD-121	11500	650	Yes	115	95	20 1/2	14 1/2	23	1840.00

FEATURES

- Separate hot air exhaust and air inlet hoses
- Disposes of its own condensate under most conditions-there's no bucket to empty
- Easy-access air filter is washable
- Electronic controls have soft touch keypad
- Programmable wireless remote
- 24 hour on/off timer
- Auto restart reverts to last setting following a power outage
- Sliding adapters that fit a variety of window sizes and patio doors



PORTABLE COOLING AND HEATING

Model	Cooling Cap	Heating Cap	Approx Sq Ft	Remote Control	Volt	Weight	H in	W in	D in	List Price
PE-91A	9000	3412	400	Yes	115	95	31.9	19.1	19.4	1270.00
PE-121A	12000	4266	550	Yes	115	97	31.9	19.1	19.4	1368.00

Mini Split Air Conditioning



- Ultra-Quiet Operation
- Multi speed cross-flow fan for whisper quiet, balanced airflow.
- Temperature compensation adjusts operation to eliminate temperature stratification.
- Multiple modes-cooling, fan only, dehumidification, and sleep modes (also heating for heat pump models)
- 24 hour on/off timer
- Triple filtration for improved air quality

COOLING ONLY SINGLE ZONE R410

Model	Cooling Cap	Volt	Indoor Dimensions w x h x d	Outdoor Dimensions w x h x d	Liquid Line	Suction Line	List Price
DMC09SB-0	9000	115	33 x 11 x 6	30 x 21 x 10	1/4	3/8	2188.00
DMC12SB-0	11500	115	35 x 11 x 6	30 x 21 x 10	1/4	1/2	2362.00
DMC18SB-1	18000	208/230	42 x 11 x 7	34 x 25 x 13	1/4	1/2	3210.00
DMC24SB-1	22500	208/230	42 x 11 x 7	34 x 25 x 13	1/4	5/8	3794.00

HEAT PUMP SINGLE ZONE R410

Model	Cooling Cap	Volt	Indoor Dimensions w x h x d	Outdoor Dimensions w x h x d	Liquid Line	Suction Line	List Price
DMH09SB-0	9800	115	33 x 11 x 6	30 x 21 x 10	1/4	1/2	2386.00
DMH12SB-0	11500	115	35 x 11 x 6	30 x 21 x 10	1/4	1/2	2824.00
DMH18SB-1	19500	208/230	42 x 11 x 7	34 x 25 x 13	1/4	5/8	3578.00
DMH24SB-1	22500	208/230	42 x 11 x 7	34 x 25 x 13	1/4	5/8	4080.00

Room Air Products

Comfort-Aire



- Ultra-Quiet Operation
- Multi speed cross-flow fan for whisper quiet, balanced airflow.
- Temperature compensation adjusts operation to eliminate temperature stratification.
- Multiple modes-cooling, fan only, dehumidification, and sleep modes (also heating for heat pump models)
- 24 hour on/off timer
- Triple filtration for improved air quality

HEAT PUMP/COOLING ONLY DUAL ZONE

R410

Model	Cooling Cap	Volt	Indoor Dimensions w x h x d	Outdoor Dimensions w x h x d	Liquid Line	Suction Line	List Price
DMC24DB-1	2 X 12000	208	35 x 11 x 6	34 x 31 x 13	1/4	3/8	4920.00
DMH18DB-1	2 X 9000	208	33 x 11 x 6	34 x 25 x 13	1/4	3/8	5198.00
DMH24DB-1	2 X 12000	208	35 x 11 x 6	34 x 31 x 13	1/4	3/8	5336.00



HEAT PUMP/COOLING ONLY TRI ZONE

R410

Model	Cooling Cap	Volt	Indoor Dimensions w x h x d	Outdoor Dimensions w x h x d	Liquid Line	Suction Line	List Price
DMC36TB-1	3 X 12000	208	35 x 11 x 6	34 x 31 x 13	1/4	3/8	8502.00
DMH36TB-1	3 X 12000	208	35 x 11 x 6	34 x 25 x 13	1/4	3/8	9248.00

Whole House Dehumidifier



- Ultra-Quiet Operation lined with 1" insulation
- Thermostatic Expansion Valve
- Improves comfort and indoor air quality
- Protects the home and furnishing
- 24 hour on/off timer
- Triple filtration for improved air quality

Model WHD-130A

Specifications



Capacity --- 130 pints per 24 hours @ 80 F DBT
 Power Supply -- 115 V 15 amp dedicated circuit
 Air Flow CFM --- 400 @ .6" w.c e.s.p.
 Duct Connections ---- 8" diameter (inlet and outlet)
 Weight --- 150 pounds
 Dimensions --- 19.15" H x 25.13"W x 30"L

Optional Room Control

Dehumidifier

		Dimensions	Weight	List Price
WHD-130A	130 pints per 24 hrs	19.15h x 25.13w x 30L	150 lbs	2258.00

The Applied Comfort DMQ (Dual Motor, Quiet) Packaged Terminal Air Conditioner and DHP Packaged Terminal Heat Pump provides quality all electric comfort control for hotels, motels, apartments, offices and other applications requiring the advantages of individual room heating and cooling. Builders and owners will appreciate the simplicity of applying multiple units to new structures and the flexibility of adding units where needed when modernizing or enlarging existing buildings.

Cooling: 9,000 BTUH to 14,000 BTUH
 Heating: 7,400 BTUH to 17,500 BTUH
 Voltage: 230/208-1-60

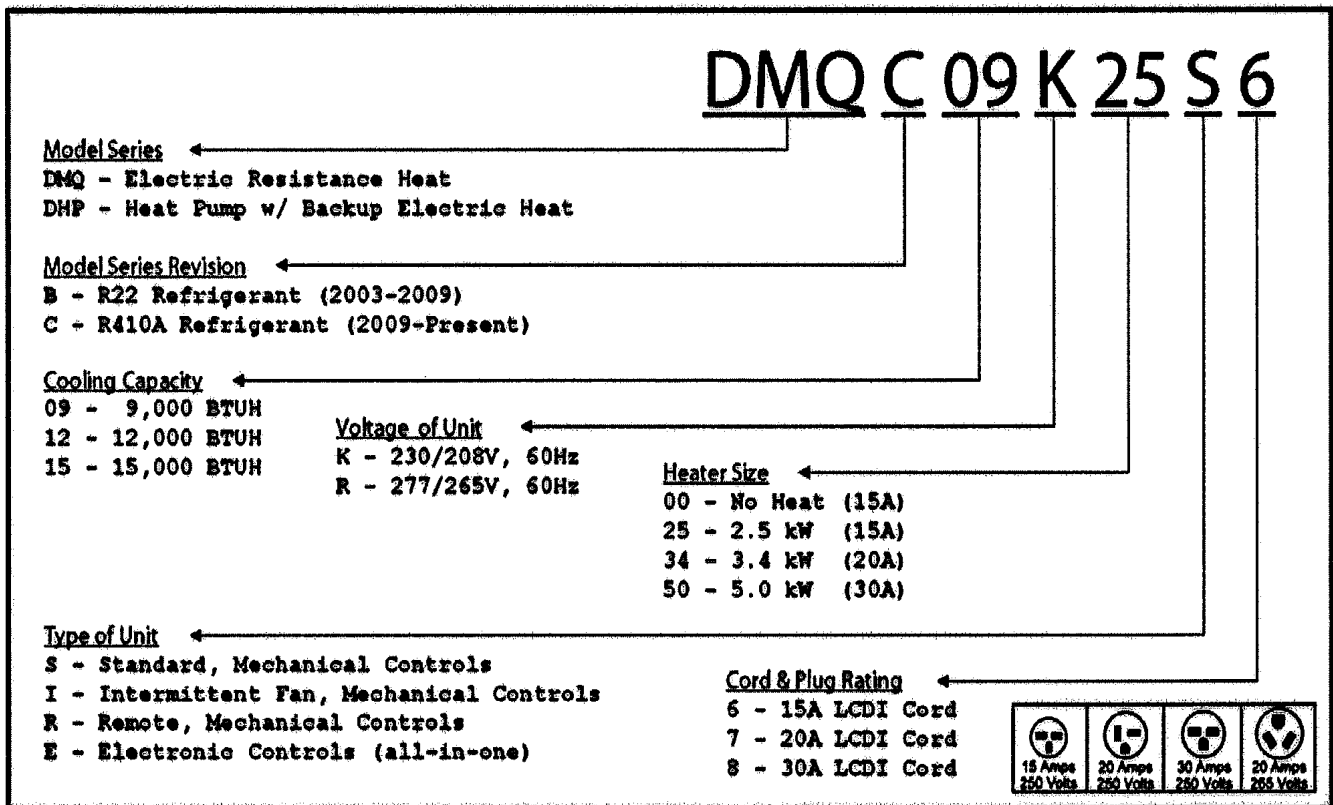


Features

- Sloped Front Design For Improved Air Throw and Chassis Appearance
- Slide-in Chassis fits 32" wide by 18 5/16" high Wall Sleeve
- Easily Removable Washable Air Filter
- One Piece Heavy Gauge Steel Polyester Powder Coated Front Panel
- Heavy Duty Aluminium Discharge Grille
- Large, Easier To Use Controls
- Dual Direct Drive Fan Motors with 3 Speed Indoor Fan
- High Efficiency Copper Tube Fin Coils
- Quiet, Efficient Rotary Compressors
- Controlled Access Fresh Air Control
- Improved Thermostat Provides Better Temperature Control
- Heat Pump Design w/ Backup Electric Heat Provides Quiet, Efficient Comfort

Universal Replacement for

- ZoneAire
- Heil-Quaker
- KeepRite
- Carrier
- Whirlpool
- McQuay
- Fedders Islandaire
- Chromalox



NOTES



Thermostats



VisionPRO®

VisionPRO® 8000 (TH8000) is a universal, effortless-to-use 7-day programmable thermostat line which features a large touch screen display (10 square inches). Automatically updates the time for daylight savings and will keep time and hold the program during a power failure. VisionPRO thermostats are dual-powered and can be used on virtually any system type - gas, oil, electric, heat pump or hot water systems.

Programmable

		List Price
TH6220D1010	Vision Pro Programmable 2H/2C	177.64
TH8320U1016	Vision Pro Programmable 3H/2C	369.39
TH6110D1013	Focus Pro 6000	145.32



The FocusPRO™ 5000 offers a blend of performance and value. With the largest backlit screen in its class and digital display the thermostat displays room and set temperatures. Enjoy easy-access battery replacement and reliability you expect from Honeywell

Non Programmable

		List Price
TH5220D1011	Focus PRO Non Programmable 2H/2C	138.84



The PRO programmable series provides 24 Vac control for conventional and heat pump systems.

Non Programmable

		List Price
TH2110D1009	Pro Programmable 1H/1C	75.94



Enclose and protect wall thermostats against tampering, damage and unauthorized adjustment of thermostat settings.

Thermostat Guard

		List Price
TG511A1000	Focus PRO Non Programmable 2H/2C	56.74



- **WIRELESS FOCUSPRO® THERMOSTAT:** Same great features of the FocusPRO® thermostat - now wireless. Installs in minutes. Can display outdoor temperature and humidity. 1 year battery life. 2 month low battery warning. Dual Fuel enabled.
- **EQUIPMENT INTERFACE MODULE(EIM):** All HVAC equipment is wired to the module. Module receives communication from the wireless devices.
- **RETURN AIR SENSOR:** Works with the Equipment Interface Module to maintain safe indoor temperatures if power is lost at the wireless thermostat. Maintains 62 F for heating and 82 F for cooling.
- **REDLINK™ WIRELESS TECHNOLOGY:** Powered by RedLINK™ reliability. No interference with other wireless devices in the home.

Wireless Thermostat Kit with Outdoor Sensor. RedLINK™ Enabled. Up to 3H/2C Heat Pump or Up to 2H/2C Conventional. Kit includes Wireless FocusPRO® Programmable Thermostat, Equipment Interface Module, Return Air Sensor.



Programmable Wireless

		List Price
YTH6320R1001	Focus PRO Comfort System Kit / c/w Return air Sensor	456.00

Wireless Thermostat Kit. RedLINK™ Enabled. Up to 3H/2C Heat Pump or Up to 2H/2C Conventional. Kit includes Wireless FocusPRO® Programmable Thermostat, Equipment Interface Module and Return Air Sensor, and Remote Outdoor Sensor.



Programmable Wireless

		List Price
YTH6320R1009	Focus PRO Comfort System Kit / c/w Portable Outdoor Sensor / RA Sensor	596.00

Whole House Air Quality

Whole-house indoor air quality solutions are proven to outperform portable products. Honeywell, a leader in whole-house indoor air quality solutions for over 40 years, has one of the broadest product lines in the industry. Combining innovative technology with a history of quality, Honeywell has the right solution for you.

Electronic Air Cleaner

		Dimensions	List Price
F300E1019	Electronic Air Cleaner	16 x 25	1024.00
F300E1027	Electronic Air Cleaner	20 x 20	1102.00
F300E1035	Electronic Air Cleaner	20 x 25	1212.00



Media Air Cleaner

		Dimensions	List Price
F100F1012	Media Air Cleaner	16 x 25	220.00
FC100A1029	Media Replacement Filter	16 x 25	68.22

Carbon Monoxide, an odorless, colorless gas, is the leading cause of accidental poisoning deaths in the US. More than 200 people die and thousands are injured each year. Offer your customers the protection they deserve with a Honeywell CO detector.

Carbon Monoxide Detector

			List Price
C8600A1000	CO Detector		97.76



Your Enviracaire Elite™ humidifier uses the principle that vapor (evaporated water) is created when warm air blows over a water soaked area. As the vapor circulates, the relative humidity rises.

Your humidity control monitors the relative humidity and activates the humidifier accordingly. The humidifier has a water supply that dispenses water evenly over the AgION™ antimicrobial humidifier pad. The warm dry air, from the furnace, passes over the humidifier pad and picks up the moist air to circulate it throughout your home.

Humidified air feels warmer and more comfortable so you may be able to lower your thermostat heating setpoint, which saves money on your heating fuel bills. The end result is that your humidifier gives you a cleaner, more comfortable environment that is also energy efficient.

Humidify Automatically - Powered to run when your heating and cooling system cycles

High Output - Delivers up to 18 gallons of moisture into the air each day

Simple Maintenance - Replacement Honeywell Humidifier pads can be purchased from and/or replaced by your heating and cooling contractor, and also fit Aprilaire Humidifiers

Exclusive AgION Humidifier Pads - Feature an anti-microbial coating which helps inhibit the growth of micro-organisms

PerfectFLO Distribution Tray - Helps ensure that moisture is distributed evenly

Model Number: HE225A

5-Year Warranty



Humidifier

Model	Description	GP 24 Hr	List Price
HE225A1014	Humidifier	18	323.20
HC22E1003	Humidifier pad		27.86

Air Conditioner Electrical Disconnect Switch



Fusible Switch

- Pull-out & pocket! Now that's service security!

Metallic-Fusible

Disconnects Drop-Down Door

- Drop-down, swing-out door with lockable latch.
- 240V / 60 Amp
- 19.84 x 13.18 x 8.10cm (7 13/16" x 5 3/16" x 3 3/16")
- NEMA 3R rainproof enclosure for outdoor use
- Powder coat finish on rugged steel construction
- Knockouts provided on back, bottom and side
- cUL listed

Part #	Volts	Amps	Phase	Weight	List
83317	240	60	1	3.7lbs	28.40

Whips

Liquid Tight Installation Whips

- Non-Metallic Liquid Tight conduit (cUL listed).
- 2 One-piece non-metal PVC fittings applied (cUL listed).
- 1 straight Liquid Tight fitting.
- 1 90° Liquid Tight fitting.
- 2 reducing washers on 1/2" whips
- 11" wire exposure each end.



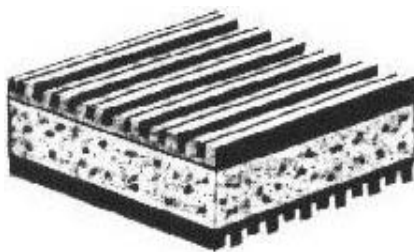
Part #	Size	Length	Gauge	List
84135	1/2"	6"	#10	27.00
84137	3/4"	6"	#8	33.90

Liquid - Tite Fittings

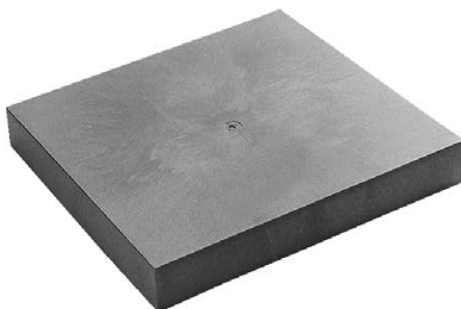
Part #	Size	90 deg	List
85020	1/2"	90 deg	3.50
85021	3/4"	90 deg	3.50

Anti-Vibration Pads

These high quality rubber pads provide maximum loading of 60 lbs. per square inch. Anti-vibration pads can be used on any type of mechanical/electrical machines such as pumps, motors, air conditioning units, generators, compressors, etc



Part #	Size	Made of	List
52110	4" x 4"x7/8"	Rubber/Cork	3.00



Air Conditioning Condenser Pads. These gray plastic pads are molded from polyolefins. The lightweight, one piece constructed pads are virtually unbreakable and built to last. Two and three inch thick pads are available

Condenser Pads

Part #	Size	Made of	List
93560	24" x 24"	Plastic	25.00
93565	30" x 30"	Plastic	42.00



Motor Start Capacitors



165 Volts AC

MARS No.	Microfarad Min-max	Price
11032	145-175	12.00
11033	161-193	14.40
11035	233-292	17.80
11036	270-324	17.50
11037	400-480	27.00

Motor Run Capacitors



110/125 Volt AC

MARS No.	Microfarad Min-max	List
11002	21-25	6.80
11006	43-56	8.00
11009	88-108	6.60
11010	108-130	6.40
11013	145-156	7.10
11015	189-227	7.60
11016	200-240	8.00
11017	216-259	8.00
11018	233-292	8.20
11019	270-324	8.00
11020	300-360	10.60
11021	324-388	10.20
11023	378-440	11.00
11025	460-552	13.50
11026	540-648	14.80
11027	590-708	16.70

370 Volts

Oval

MARS No.	Microfarad Min-max	List
12002	2	14.40
12003	3	12.70
12005	5	11.40
12007	7.5	11.40
12008	10	13.00
12009	12.5	19.70
12010	15	21.80
12014	20	23.90
12015	25	26.90
12017	30	30.80
12018	35	33.50
12021	40	41.90
12023	45	48.70
12025	50	56.50

250/220 Volt AC

MARS No.	Microfarad Min-max	List
11038	21-25	12.20
11041	36-43	13.00
11042	43-56	13.70
11043	56-72	14.20
11044	72-88	14.00
11045	88-108	14.50
11049	145-175	17.50
11050	161-193	19.60
11051	189-227	21.80
11052	216-259	23.50

330 Volts AC

MARS No.	Microfarad Min-max	List
11055	21-25	13.30
11058	36-43	15.70
11060	56-72	15.70
11061	72-88	15.80
11062	88-108	18.80
11063	108-130	21.30
11064	130-156	30.50
11066	145-175	27.50
11068	189-227	32.90

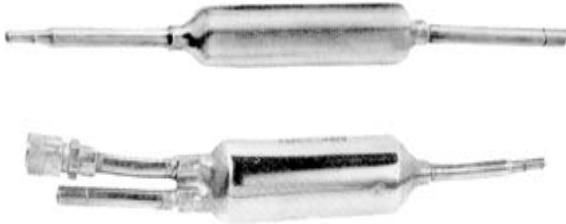
340 Volts

Round

MARS No.	Microfarad Min-max	List
12232	10	20.60
12233	12.5	25.50
12234	15	24.50
12236	17.5	28.20
12237	20	29.00
12240	25	33.10
12241	30	38.60
12243	35	44.00
12245	40	45.20
12248	45	50.60
12251	50	71.20
12252	55	75.00



Spun Copper Driers



- recommended for use on original equipment, residential and commercial refrigerators, freezers and air conditioners
- XH-9 beaded molecular sieve for maximum water capacity in HFC refrigerants
- high quality – high capacity
- hermetically sealed
- easy break off grooved ends
- copper shells and end tubes
- compatible with R134

Part #	Description	tonnage R-12	tonnage R-22	List
20210 / MMS80	fused ends	1/3	1/2	7.50
20211 / 620XH9	charging	3/4	1	25.00



Mesh Cloth

Part #	Description	Size	List
78923	Nylon mesh	1 1/2 x 5 yds	20.50

MARS refrigerant I.D. labels are color coded to conform to each particular refrigerant. Each label specifies the type of refrigerant, the chemical name, the UN # and a space for the name and address of the cylinder owner. These self-adhering labels are 4 1/2" x 3 1/2", except for MARS #79528, Refrigerant Evacuation Certificate, which is 7 1/2" x 4 1/2".

Refrigeration I.D. Labels



Part #	Description	Per Pkg	List
79513	R507	10	15.50
79516	R404A	10	15.50
79522	R22	10	15.50
79523	R134A	10	15.50

Suitable for use with condensate from high efficiency condensing furnaces and boilers which produce acidic condensate. 22' of lift compared to the typical 20'. Features include vibration dampening feet and motor mounts, metal hang tabs, four inlet holes, a clear indicator display, a float switch and check valve, and pan pill dispenser. Integrating the CP-22 into your system is easy. 1/4" inch quick connect terminals provide easy connection to the built in overflow switch. 3 terminals are provided allowing flexibility to connect air-handler shut-down and optional alarm as needed. The new CP-22LP comes packed with all the same great features found in the CP-22, but now in a low profile package. This pump is only 4 3/8" tall so it's a good fit for those instances where space is at a premium. The shorter reservoir holds 1/3 gallon. Suitable for use with condensate up to 160°F.



Condensate pumps

Model	volts	Gpm		Weight lbs	List Price
CP-22T	120	1.6		4.8	86.00
CP-22LP Low Profile	120	1.6		4.1	96.00

Air Moving Products ,louvers,fire dampers,grills for residential and commercial applications.

Call for Pricing



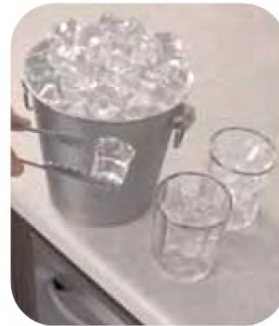


SM Series

SM50 Series Ice Cube Machine



SM50 Series



- Produces 53 lbs. (24 kgs.) of ice in 24 hours with storage capacity of 25 lbs. (11 kgs.)
- Individual cubes with unique octagon shape
- Designed to be installed into standard cabinet dimensions 15.00" (38.00 cm) or stand alone with stainless steel top and sides standard
- Unit ships with hinge on right, easily changed to left during installation

- Easily accessible control panel with the following functionality:
 - Automatic ice making mode
 - Patented cleaning and sanitizing
 - Delay start option
 - Filter replacement warning light
 - Water filter system integrated inside machine with depth filtration and scale inhibitor
- Lighted bin (LED light) with large opening for easy access
- Optional drain pump easily integrates inside the machine during installation
- 3-year parts and labor warranty on entire machine

Note: This product is intended exclusively for commercial application. No warranty is extended for personal, family, or household purposes.

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<http://www.diamondicesystems.com>

Manitowoc SM50 Series



Model	Cube size	Ice production 24 hours		Power kWh/100 lbs.
		lbs.	kgs.	
SM50A	Standard	53	24	11.69
Water usage/100 lbs./45.4 kgs. of ice				
Potable Water: 48 gallons, 182 liters				

A following model number indicates: "Air" cooled condensing unit.

Ice Machine Electric

115/60/1. Factory pre-wired with a 6' (180 cm) power cord and NEMA

5-15P-plug configuration.

Total Amps: 4.1 amps.

Maximum Fuse Size: 15 amps.

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

1,145 (average) 2,300 (peak)

Compressor:

Nominal rating: 1/6 HP

Operating Limits:

- Ambient Temperature

Range:

50° to 110°F (10° to 43°C)

- Water Temperature Range:

35° to 90°F (2° to 32°C)

- Water Pressure Ice Maker

Water In:

Min. 20 psi (138 kPA)

Max. 80 psi (551 kPA)

Legs:

Levelers standard 0" to 1"

(0-2.5 cm) adjustability.

Optional legs 4.25"-6.00"

(10.80-15.24 cm).

Insulation:

Insulation foamed-in-place with CFC-FREE foam.

Air Flow Front View



Air in right, air out left, no side vents.

Water Filter



Auto-bypass for easy change out.

Cube Size



Standard
1-3/8" x 1-3/8"
(33 x 34 mm)

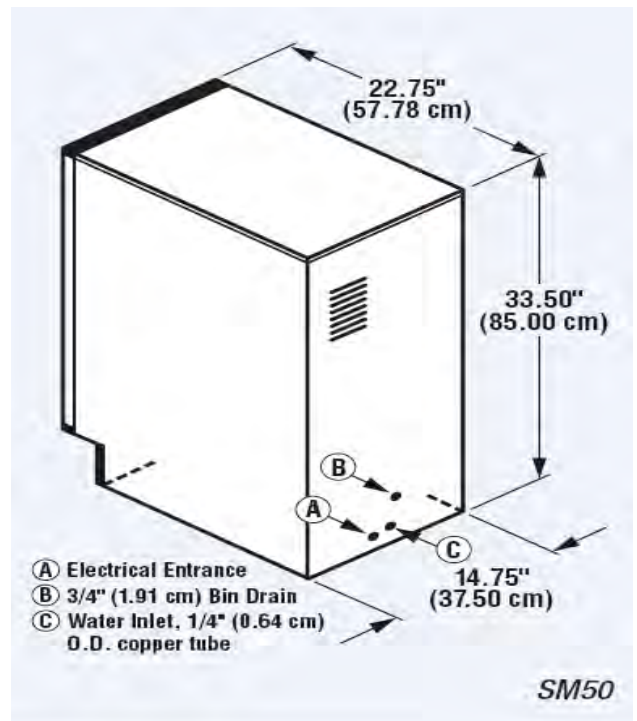
Front Access Control Panel



Machine automatically keeps the bin full. Choose delay start for optimal quietness. Machine automatically restarts.

24-HOUR PRODUCTION † lbs. kgs.			
AIR-COOLED UNIT			
air temp	water temp		
F	50°	70°	90°
°C	10°	21°	32°
70°	53	53	53
21°	24	24	24
80°	50	49	48
27°	23	22	21
90°	48	44	43
32°	21	20	19

†16 cubes per ice cycle



Installation Note - There is no minimum clearance required, designed to be integrated into cabinet opening 15.00" (38.00 cm) wide.





QM Series

QM-30 QM-45 Series Ice Cube Machine



QM - 30

- Compact size. Produces up to 65 lbs. (30 kgs.) of ice daily with a storage capacity of 30 lbs. (14 kgs.) Ideal for any small-volume ice need.
- Attractive stainless steel cabinet – euro-design
- Easy access door, slides up & out of the way

QM - 45

- Up to 95 lbs.(43 kgs) of ice daily with a storage capacity of 30 lbs. (14 kgs)
- Patented cleaning and sanitizing technology
- Easy access air filter
- Front air intake and exhaust
- CFC-FREE R-134A refrigerant
- Maniowoc proven vertical evaporator
- Computerized control

CEE Tier 1 energy and water efficiency rating

- 3-year parts-and-labor warranty

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<http://www.diamondicesystems.com>

Manitowoc QM-30 & 45 Series

Model	Ice Shape	Ice production 24 hours		Power kWh/100 lbs. @90°/70°	CEE* Rating
		lbs.	kgs.		
QM-30A	dice	65	22	20.4	
QM-45A	dice	90	30	14.9	Tier 1
Water usage/100 lbs./45.4 kgs. of ice					
Potable Water: 38.4 gallons, 146 liters					

A following model number indicates "Air" cooled condensing unit.

Ice Machine Electric

115/60/1. (230/50/1 also available.) 115/60/1 Ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P-plug configuration.

Total Amps: QM- 30 5.3 amps QM - 45 5.2 amps

Maximum fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

QM-30 1,600 (average) 2,350 (peak)

QM-45 1,750 (average) 2,600 (peak)

Compressor:

Nominal rating: 1/4 HP

Operating Limits:

• Ambient Temperature Range:

QM-30 50° to 113°F (10° to 45°C)

QM-45 40 to 110 F (1.6 to 32 C)

• Water Temperature Range:

QM-30 50° to 86°F (10° to 40°C)

QM-45 33 to 90 F (0.6 to 32 C)

Legs:

Adjustable from 6.00"-7.25"

(15.24-17.78 cm).

Ice Storage:

One piece bin liner (seamless)

"rotocast" polyethylene.

Insulation:

Insulation foamed-in-place

with CFC-FREE foam.

Air Flow Front View



Air in left, air out right, no side vents.

Air Filter



Slides out from left side front without tools, easy to clean, reusable filter protects condenser from lint, grease and dust.

Cube Size



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

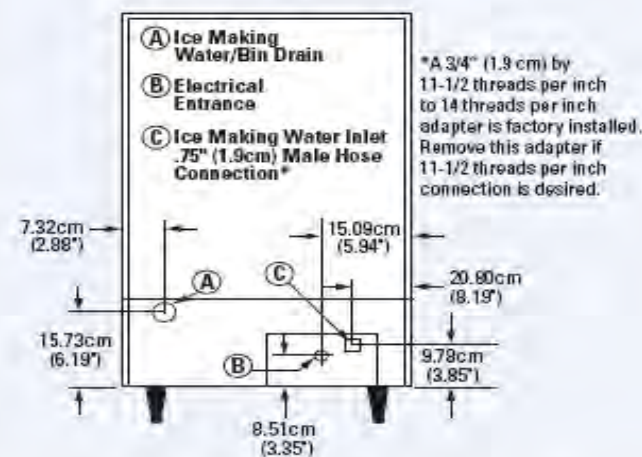
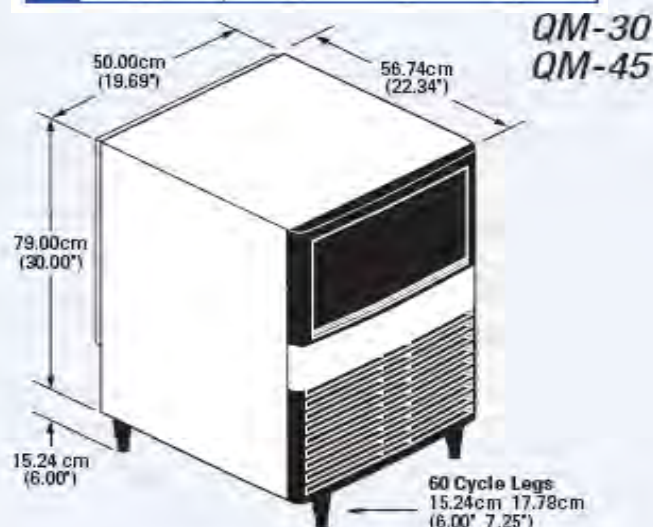
Front Access

Initiate ice, off and clean operations with simple upfront selector switch. No need to remove front panel.



*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

24 - HOUR PRODUCTION† lbs. kgs.				
AIR-COOLED UNIT				
	air temp		water temp	
	F	°C	°F	°C
QM-30	70°	21°	65	60
	80°	27°	30	28
	90°	32°	60	56
	27°	90°	28	25
	32°	90°	25	24
QM-45	70°	21°	95	80
	80°	27°	43	36
	90°	32°	90	75
	27°	90°	41	34
	32°	90°	36	30



Installation Note - There is no minimum clearance required, however recommended clearance for top, sides, and back is 5" (12.7 cm).





Q-Model Series 130 Ice Cube Machine



Q-Model Series 130

- Up to 147* lbs. (67 kgs.) daily ice production
- Only 26" (66.04 cm) wide, 26.50" (67.31 cm) deep, and 38.50" (82.55 cm) high on 6" (15.24 cm) legs
- 80 lbs. (36.6 kgs.) ice storage capacity
- Slide up and in bin door tucks under ice machine top cover. Patented ice damper maximizes ice storage capacity
- Stainless steel exterior with the fit and finish of an appliance
- Patented cleaning and sanitizing technology
- R-404A CFC-free refrigerant
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other components

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Manitowoc Q-Model 130 Series

Model	Ice Shape	Ice Production 24 hours				Power kWh/100 lbs. @ 90°/70°F	CEE* Rating	ENERGY STAR
		70°F Air		90°F Air				
		50°F Water	70°F Water	70°F Water	90°F Water			
QD-0132A	dice	135	61	90	41	12.5	Tier 1	
QD-0133W	dice	130	59	105	48	9	Tier 1	
QY-0134A	half-dice	135	61	95	43	12.3	Tier 1	
QY-0135W	half-dice	135	61	110	50	8.8	Tier 1	

Water usage/100 lbs./45.4 kgs. of Ice

Potable Water: 39 gallons, 127 liters

Water-cooled Condenser:

Q130: 185 gal. / 708 liters • Q210: 142 gal. / 537 liters • Q270: 167 gal. / 632 liters

24-HOUR PRODUCTION †								lbs. kgs.
AIR-COOLED UNIT				WATER-COOLED UNIT				
air temp	water temp			air temp	water temp			
°F	50°	70°	90°	°F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	
70°	130	110	95	70°	147	127	108	
21°	59	50	43	21°	67	58	49	
80°	120	105	90	80°	144	126	106	
27°	54	48	41	27°	65	57	48	
90°	105	90	80	90°	140	123	103	
32°	48	41	36	32°	63	56	47	

†Production for Dice and Half Dice cubes.

*"A" or "W" following model number indicates "Air" or "Water" condensing unit.

Ice Machine Electric

115/60/1. (208-230/60/1 and 230/50/1 also available, consult factory.)

115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P-plug configuration. 208-230/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord only, no plug is supplied.

Total Amps:

115/60/1

Air-cooled — 7.0 amps.

Water-cooled — 6.1 amps.

208-230/60/1

Air-cooled — 3.1 amps.

Water-cooled — 2.6 amps.

Maximum fuse size:

Air and Water-cooled — 15 amps.

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

2,400 (average) 2,900 (peak)

Compressor:

Nominal rating: 1/3 HP

Cupra-Nickel Condenser:

(Water-cooled models)

Adds protection from corrosive water elements.

Operating Limits:

Ambient Temperature Range:

40° to 110°F (4.4° to 43.3°C)

Water Temperature Range:

40° to 90°F (4.4° to 32.2°C)

Water Pressure Ice Maker Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Front View



Air in left, air out right, no side vents.

Air Filter



Slides out from left side front without tools, easy to clean, reusable filter protects condenser from lint, grease and dust.

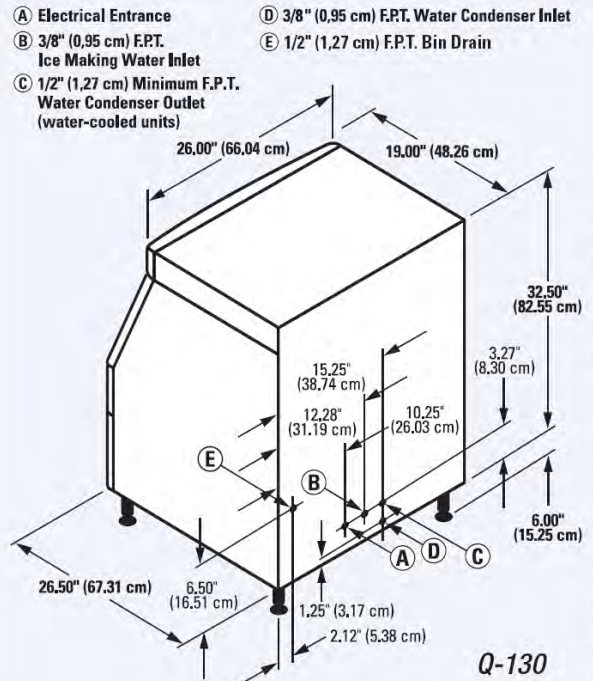
2 Cube Sizes Available



Half Dice
3/8" x 11/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)



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Installation Note - Recommended clearance for top, sides, and back is 5" (12.7 cm). However, there is no minimum clearance required.

Front Access

Initiate ice, off and clean operations with simple upfront selector switch. No need to remove front panel.





Q-Model Series 210 Ice Cube Machine



Q-Model Series 210

- Up to 220* lbs. (100 kgs.) daily ice production
*Production rating outside the scope of ARI Standard 820.
- Only 26" (66.04 cm) wide, 26.50" (67.31 cm) deep, and 38.50" (97.78 cm) high on 6" (15.24 cm) legs
- 80 lb. (36.6 kg) ice storage capacity
- Slide up and in bin door tucks under ice machine top cover. Patented ice damper maximizes ice storage capacity
- Stainless steel exterior with the fit and finish of an appliance
- Patented cleaning and sanitizing technology
- R-404A CFC-free refrigerant
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other components

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Manitowoc Q-Model 210 Series

QD-0212A	dice	215	98	155	70	9.9	Tier 2
QD-0213W	dice	220	100	190	86	6.8	Tier 2
QY-0214A	half-dice	215	98	155	70	9.9	Tier 2
QY-0215W	half-dice	220	100	190	86	6.8	Tier 2

Water usage/100 lbs./45.4 kgs. of Ice

Potable Water: 39 gallons, 127 liters

Water-cooled Condenser:

Q130: 185 gal. / 708 liters • Q210: 142 gal. / 537 liters • Q270: 167 gal. / 632 liters

*A" or "W" following model number indicates "Air" or "Water" condensing unit.

24-HOUR PRODUCTION †								lbs. kgs.
AIR-COOLED UNIT				WATER-COOLED UNIT				
air temp	water temp			air temp	water temp			
°F	50°	70°	90°	°F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	
70°	215	185	165	70°	220	205	170	
21°	98	84	75	21°	100	93	77	
80°	200	170	150	80°	215	200	165	
27°	91	77	68	27°	98	91	75	
90°	185	155	135	90°	205	190	155	
32°	84	70	61	32°	93	86	70	

†Production for Dice and Half Dice cubes.

Ice Machine Electric

115/60/1. (208-230/60/1 and 230/50/1 also available, consult factory.)
115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord

and NEMA 5-15P-plug configuration. 208-230/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord only, no plug is supplied.

Total Amps:

115/60/1

208-230/60/1

Air-cooled — 6.5 amps.

Air-cooled — 3.6 amps.

Water-cooled — 6.1 amps.

Water-cooled — 3.1 amps.

Maximum fuse size:

Air and Water-cooled — 15 amps.

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

2,400 (average) 3,400 (peak)

Compressor:

Nominal rating: 1/3 HP

Cupra-Nickel Condenser:

(Water-cooled models)

Adds protection from corrosive water elements.

Operating Limits:

• Ambient Temperature Range:

40° to 110°F (4.4° to 43.3°C)

• Water Temperature Range:

40° to 90°F (4.4° to 32.2°C)

• Water Pressure Ice Maker Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

• Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Front View



Air Filter



Slides out from left side front without tools, easy to clean, reusable filter protects condenser from lint, grease and dust.

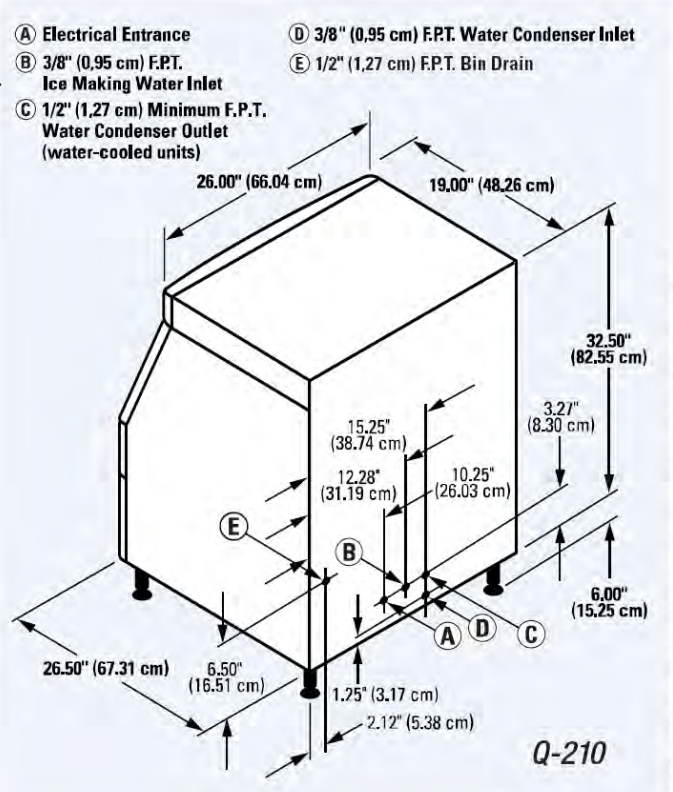
2 Cube Sizes Available



Half Dice
3/8" x 11/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)



Installation Note - Recommended clearance for top, sides, and back is 5" (12.7 cm) however, there is no minimum clearance required.

Front Access

Initiate ice, off and clean operations with simple upfront selector switch. No need to remove front panel.





Q-Model Series 270 Ice Cube Machine



- Up to 290* lbs. (132 kgs.) daily ice production

*Production rating outside the scope of ARI Standard 820.

- Only 30" (76.2 cm) wide, 28.16" (71.52 cm) deep, and 38.50" (97.79 cm) high on 6" (15.24 cm) legs
- 100 lb. (45.45 kg) ice storage capacity
- Slide up and in bin door tucks under ice machine top cover. Patented ice damper maximizes ice storage capacity
- Stainless steel exterior with the fit and finish of an appliance
- Patented cleaning and sanitizing technology
- R-404A CFC-free refrigerant
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3 year parts-and-labor coverage on all other components

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 *Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.



<http://www.diamondicesystems.com>

Manitowoc Q-Model 270 Series

A seamless blend of thoughtful design, new technology and rugged construction.

QD-0272A	dice	280	127	215	98	9	Tier 2	★
QD-0273W	dice	290	132	245	111	7.3	Tier 1	
QY-0274A	half-dice	280	127	215	98	9	Tier 2	★
QY-0275W	half-dice	290	132	245	111	7.3	Tier 1	
Water usage/100 lbs./45.4 kgs. of ice								
Potable Water: 39 gallons, 127 liters								
Water-cooled Condenser:								
Q130: 185 gal. / 708 liters • Q210: 142 gal. / 537 liters • Q270: 167 gal. / 632 liters								

*A or W following model number indicates Air or Water condensing unit.

24-HOUR PRODUCTION † lbs. kgs.							
AIR-COOLED UNIT				WATER-COOLED UNIT			
air temp	water temp			air temp	water temp		
°F	50°	70°	90°	°F	50°	70°	90°
°C	10°	21°	32°	°C	10°	21°	32°
70°	280	245	220	70°	290	255	235
21°	127	111	100	21°	132	116	107
80°	275	240	215	80°	285	250	230
27°	125	109	98	27°	130	114	105
90°	250	215	190	90°	280	245	225
32°	114	98	86	32°	127	111	102

†Production for Dice and Half Dice cubes. Regular cube is 7% less than chart.

Ice Machine Electric

115/60/1. (208-230/60/1 and 230/50/1 also available, consult factory.)
115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P-plug configuration. 208-230/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord only, no plug is supplied.

Total Amps:

115/60/1
Air-cooled — 10.7 amps. 208-230/60/1
Water-cooled — 9.9 amps. Air-cooled — 5.2 amps.
Water-cooled — 4.7 amps.

Maximum fuse size:

Air and Water-cooled — 15 amps.
HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

3,800 (average) 6,000 (peak)

Compressor:

Nominal rating: 1/2 HP

Cupra-Nickel Condenser:

(Water-cooled models)
Adds protection from corrosive water elements.

Operating Limits:

- Ambient Temperature Range: 35°-110°F (1.7°-43.3°C)
- Water Temperature Range: 33°-90°F (0.6°-32.2°C)
- Water Pressure Ice Maker Water In: Min 20 psi (137.9 kPa) Max 80 psi (551.1 kPa)
- Condenser Inlet Water In: (Water cooled only) Min. 20 psi (137.9 kPa) Max. 150 psi (1,034.2 kPa)

Air Flow Front View



Air in left, air out right, no side vents.

Air Filter



Slides out from left side front without tools, easy to clean, reusable filter protects condenser from lint, grease and dust.

3 Cube Sizes Available



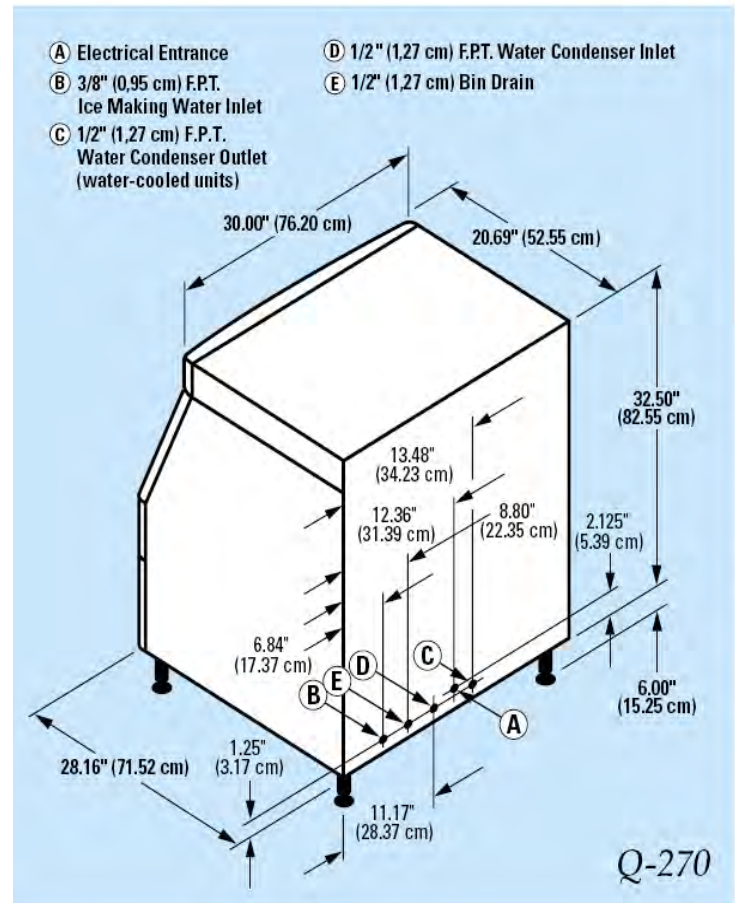
Half Dice
3/8" x 11/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)



Regular
1 1/8" x 1 1/8" x 7/8"
(2.86 x 2.86 x 2.22 cm)



Installation Note - There is no minimum clearance required, however recommended clearance for top, sides, and back is 5" (12.7 cm).

Front Access

Initiate ice, off and clean operations with simple upfront selector switch. No need to remove front panel.





S Series

S-Series 300 Ice Cube Machine



S-Series 300
Ice Machine on B-170 Bin

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

- Up to 340 lbs. (154 kgs.) daily ice production
- Only 30" (76.20 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan anti-microbial
- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 300

Model	Ice Shape	Ice Production 24 Hours				Power kWh/100 lbs. @ 90°/70°F	CEE* Rating
		70°Air/50°F Water		90°Air/70°F Water			
		lbs.	kgs.	lbs.	kgs.		
SD-0302A	dice	340	154	270	123	7.7	Tier 1
SD-0303W	dice	325	147	290	132	6	Tier 1
SY-0304A	half-dice	340	154	270	123	7.7	Tier 1
SY-0305W	half-dice	325	147	290	132	6	Tier 1

Water usage/100 lbs./45.4 kgs. of ice
 Potable Water: 18 gallons, 68 liters • Water-cooled Condenser: 153 gallons, 579 liters.

Order ice storage bin separately. "A" or "W" following model number indicates "Air" or "Water" condensing unit.
 *Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

 Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810

Ice Machine Electric

115/60/1 standard. (208-230/60/1 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled — 15.6

Water-cooled — 14.8

Max. fuse size: Air-cooled and Water-cooled — 25 amps
 HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

5,000 (average) 6,000 (peak)

Compressor:

Nominal rating: 1/2 HP

Cupra-Nickel Condenser:

(Water-cooled models)
 Adds protection from corrosive water elements.

Operating Limits:

• Ambient Temperature Range:

Air and water:

35° to 110°F (1.6° to 43.3°C)

• Water Temperature Range:

35° to 90°F (1.6° to 32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

• Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS®SO Accessory

Automatic Cleaning System purchased as an option and installed in the field.

2 Cube Sizes Available



Half Dice

3/8" x 11/8" x 7/8"
 (.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"
 (2.22 x 2.22 x 2.22 cm)

24-HOUR PRODUCTION†									
		HALF-DICE CUBE			DICE CUBE			lbs. kgs.	
air temp		water temp			air temp		water temp		
°F	°C	50°	70°	90°	°F	°C	50°	70°	90°
70°	21°	340	154	270	70°	21°	340	154	270
80°	27°	310	141	255	80°	27°	310	141	255
90°	32°	280	127	240	90°	32°	280	127	240
70°	21°	325	147	290	70°	21°	325	147	290
80°	27°	320	145	285	80°	27°	320	145	285
90°	32°	315	143	280	90°	32°	315	143	280

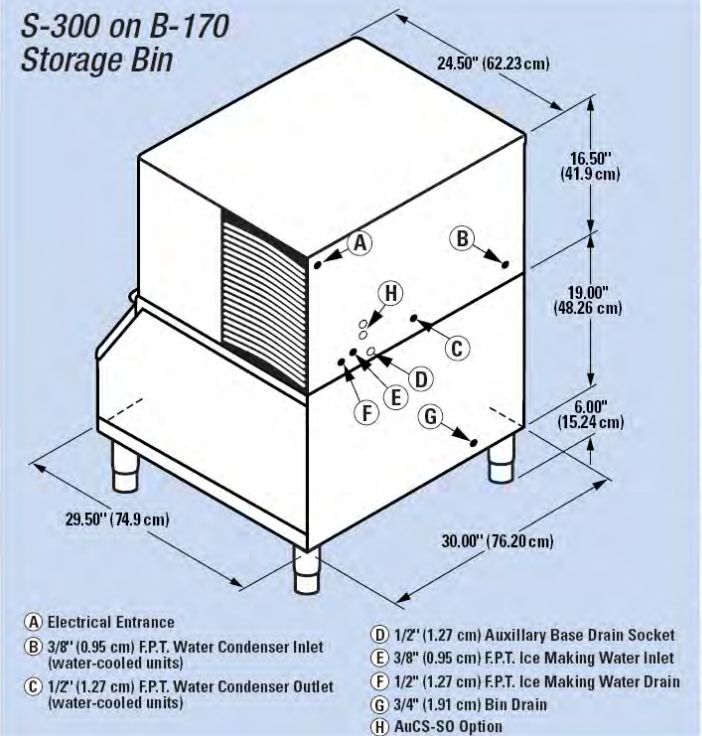
†Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

Space-Saving Designs



	S-300 B-170	S-300 B-400
Height*	41.50"	54.50"
Width	105.41 cm	138.43 cm
Depth	30.00"	30.00"
Bin Storage	76.20 cm	76.20 cm
	29.50"	34.00"
	74.93 cm	86.30 cm
	150 lbs.	290 lbs.
	68.1 kgs.	131.7 kgs.

S-300 on B-170 Storage Bin



Installation Note - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

* Height includes adjustable bin legs 6.00" to 8.00", (15.24 to 20.32 cm) set at 6.00" (15.24 cm).
 For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."



S-Series 322 Ice Cube Machine



- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

S-Series 322 Ice Machine on B-320 Bin

- Up to 340 lbs. (154 kgs.) daily ice production
- Only 22" (55.88 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 322

Model	Ice Shape	Ice Production 24 Hours				Power kWh/100 lbs. @ 90°/70°F	CEE* Rating	ENERGY STAR*
		70° Air/50°F Water		90° Air/70°F Water				
		lbs.	kgs.	lbs.	kgs.			
SY-0324A	half-dice	340	154	270	113	6.9	Tier 2	★
SY-0325W	half-dice	330	150	290	132	5.4	Tier 2	
SD-0322A	dice	340	154	270	113	6.9	Tier 2	★
SD-0323W	dice	330	150	290	132	5.4	Tier 2	

Water usage/100 lbs./45.4 kgs. of ice

Potable Water: 1.8 gallons, 68 liters • Water-cooled Condenser: 16.0 gallons, 605.6 liters.

Order ice storage bin separately. "W" or "W" following model number indicates "Air" or "Water" condensing unit.

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.



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24-HOUR PRODUCTION †								lbs. kgs.
AIR-COOLED UNIT				WATER-COOLED UNIT				
air temp	water temp			air temp	water temp			
°F	50°	70°	90°	°F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	
70°	340	320	300	70°	330	310	280	
21°	154	145	136	21°	150	141	127	
80°	320	290	270	80°	320	300	280	
27°	145	132	122	27°	145	136	127	
90°	280	250	240	90°	310	290	270	
32°	127	113	108	32°	141	132	122	

†Production for Dice and Half Dice cubes. Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

Ice Machine Electric

115/60/1 standard. (208-230/60/1 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled — 11.3 amps

Water-cooled — 10.5 amps

Max. fuse size: Air-cooled and Water-cooled — 15 amps

HACR-type circuit breakers can be used in place of fuses.

Space-Saving Designs



	S-322 B-320	S-322 B-420
Height*	59.50"	71.50"
	151.13 cm	194.31 cm
Width	22.00"	22.00"
	55.88 cm	55.88 cm
Depth	34.00"	34.00"
	86.30 cm	86.30 cm
Bin Storage	210 lbs.	310 lbs.
	95 kgs.	141 kgs.

Specifications

BTU Per Hour:

3,800 (average) 6,000 (peak)

Compressor:

Nominal rating: 1/2 HP

Cupra-Nickel Condenser:

(Water-cooled models)

Adds protection from corrosive water elements.

Operating Limits:

• Ambient Temperature Range:

Air and water:
35° to 110°F (1.6° to 43.3°C)

• Water Temperature Range:

35° to 90°F (1.6° to 32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

• Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS® SO Accessory

Automatic Cleaning System purchased as an option and installed in the field.

2 Cube Sizes Available

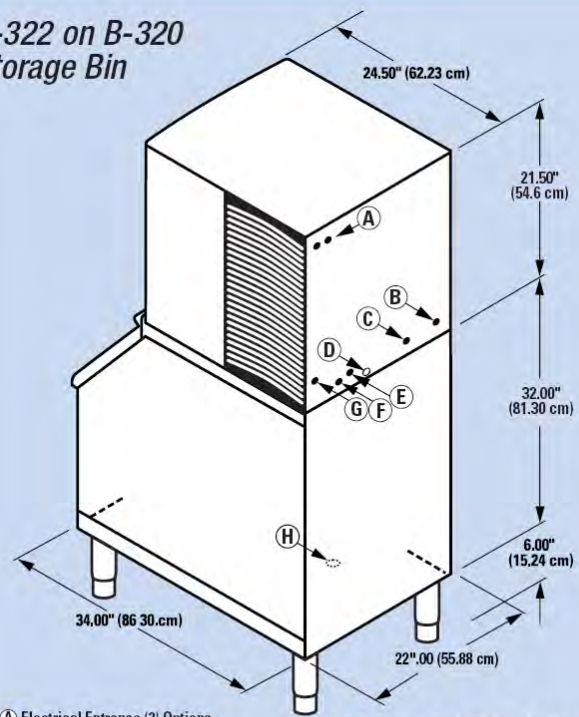
Half Dice
3/8" x 1 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)

Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

Guardian® Accessory

Slime Inhibitor with Ice Sentry sachet refill. Sachet holder standard in S-Series machine.

S-322 on B-320 Storage Bin



(A) Electrical Entrance (2) Options

(B) 3/8" (0.95 cm) F.P.T. Water Condenser Inlet (water-cooled units)

(C) 1/2" (1.27 cm) F.P.T. Water Condenser Outlet (water-cooled units)

(D) 1/2" (1.27 cm) Auxiliary Base Drain Socket

(E) 3/8" (0.95 cm) F.P.T. Ice Making Water Inlet

(F) 1/2" (1.27 cm) F.P.T. Ice Making Water Drain

(G) AuCS® Accessory Knockout

(H) 3/4" (1.91 cm) Bin Drain

Installation Note - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

* Height includes adjustable bin legs 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."



S-Series 422 Ice Cube Machine



S-Series 422
Ice Machine on B-420 Bin

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

- Up to 460 lbs. (209 kgs.) daily ice production
- Only 22" (55.88 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 422

Model	Ice Shape	Ice Production 24 Hours				Power KWh/100 lbs. @ 90°/70°F	CEE* Rating	ENERGY STAR®
		70° Air/50°F Water		90° Air/70°F Water				
		lbs.	kgs.	lbs.	kgs.			
SY-0424A	half-dice	460	209	355	161	6.5	Tier 2	★
SY-0425W	half-dice	435	197	370	168	5.1	Tier 2	
SD-0422A	dice	430	195	320	145	7.1	Tier 1	
SD-0423W	dice	430	195	370	168	5.4	Tier 1	

Water usage/100 lbs./45.4 kgs. of ice

Potable Water: 18 gallons, 68 liters • Water-cooled Condenser: 153 gallons, 579 liters.

Order ice storage bin separately. "W" or "W" following model number indicates "Air" or "Water" condensing unit.

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.



Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810

Ice Machine Electric

115/60/1 standard. (208-230/60/1 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled — 13.6 amps

Water-cooled — 12.9 amps

Max. fuse size: Air-cooled and Water-cooled — 20 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

7,000 (average) 9,600 (peak)

Compressor:

Nominal rating: 3/4 HP

Cupra-Nickel Condenser:

(Water-cooled models)
Adds protection from corrosive water elements.

Operating Limits:

Ambient Temperature Range:

Air and water:

35° to 110°F (1.6° to 43.3°C)

Water Temperature Range:

35° to 90°F (1.6° to 32.2°C)

Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS® SO Accessory

Automatic Cleaning System purchased as an option and installed in the field.

2 Cube Sizes Available



Half Dice

38" x 11 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

Guardian® Accessory



Slime Inhibitor with Ice Sentry sachet refill. Sachet holder standard in S-Series machine.

24-HOUR PRODUCTION†								lbs. kgs.
HALF-DICE CUBE				DICE CUBE				
air temp	water temp			air temp	water temp			
F	50°	70°	90°	F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	
70°	460	420	375	70°	430	395	355	
21°	209	191	170	21°	195	179	161	
80°	420	380	345	80°	400	360	325	
27°	191	172	157	27°	181	163	147	
90°	380	355	310	90°	360	320	300	
32°	172	161	141	32°	163	145	136	
AIR-COOLED								
70°	435	395	350	70°	430	385	345	
21°	197	179	159	21°	195	175	157	
80°	430	390	345	80°	420	380	340	
27°	195	177	157	27°	191	172	154	
90°	420	370	340	90°	410	370	335	
32°	191	168	154	32°	186	168	161	
WATER-COOLED								

†Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

Space-Saving Designs

S-422

B-420

S-422

B-400**

Height*

76.50"

64.50"

Width

194.31 cm

193.83 cm

Depth

55.88 cm

76.20 cm

Bin Storage

310 lbs.

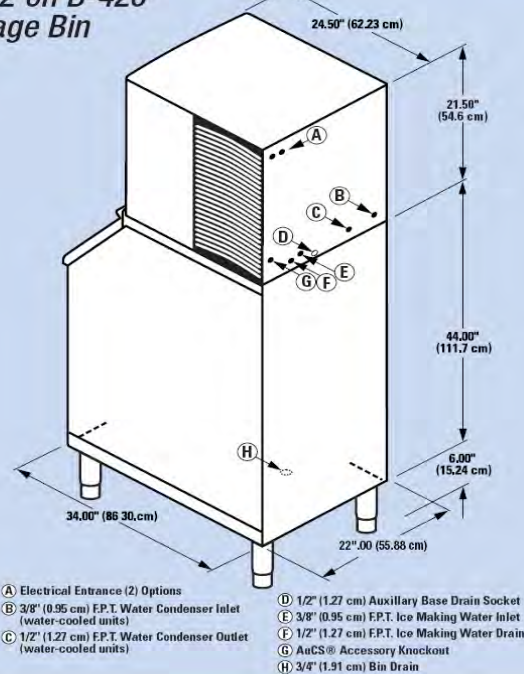
290 lbs.

Storage

141 kgs.

131.7 kgs.

S-422 on B-420 Storage Bin



Installation Note - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

* Height includes adjustable bin legs 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."

** K-00141 bin adapter required.



Manitowoc

S-Series 450 Ice Cube Machine



S-Series 450
Ice Machine on B-400 Bin

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

- Up to 460 lbs. (209 kgs.) daily ice production
- Only 30" (76.20 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 450

Model	Ice Shape	Ice Production 24 hours				Power kWh/100 lbs.	CEE* Rating
		70°/50°		90°/70°			
		lbs.	kgs.	lbs.	kgs.		
SY-0454A	half-dice	460	209	365	166	6.3	Tier 2
SY-0455W	half-dice	465	211	400	181	5.1	Tier 1
SD-0452A	dice	455	206	345	157	6.6	Tier 1
SD-0453W	dice	435	197	385	175	5.1	Tier 1

Water usage/100 lbs./45.4 kgs. of ice
Potable Water: 18 gallons, 68 liters • Water-cooled Condenser: 153 gallons, 579 liters

Order ice storage bin separately. "W" or "W" following model number indicates "Air" or "Water" condensing unit.

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

 Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810.

		24-HOUR PRODUCTION†								lbs. kgs.		
		HALF-DICE CUBE				DICE CUBE						
		air temp		water temp		air temp		water temp				
		F	°C	50°	70°	90°	F	°C	50°	70°	90°	
AIR-COOLED	70°	460	430	395	70°	455	420	380				
	21°	209	195	179	21°	206	191	172				
	80°	425	395	365	80°	420	385	350				
	27°	193	179	166	27°	191	175	159				
	90°	390	365	335	90°	380	345	325				
	32°	177	166	152	32°	172	157	147				
	WATER-COOLED	70°	465	420	375	70°	435	395	355			
		21°	211	191	170	21°	197	179	161			
		80°	455	410	370	80°	430	390	350			
		27°	206	186	168	27°	195	177	159			
90°		445	400	365	90°	425	385	345				
32°		202	181	166	32°	193	175	157				

†Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

Ice Machine Electric

115/60/1 standard. (208-230/60/1 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled — 13.6 amps

Water-cooled — 12.9 amps

Max. fuse size: Air-cooled and Water-cooled — 20 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

7,000 (average) 9,600 (peak)

Compressor:

Nominal rating: 3/4 HP

Cupra-Nickel Condenser:

(Water-cooled models)

Adds protection from corrosive water elements.

Operating Limits:

• Ambient Temperature Range:

Air and water:

35° to 110°F (1.6° to 43.3°C)

Remote: -20° to 120°F (-29° to 49°C)

• Water Temperature Range:

35° to 90°F (1.6° to 32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

• Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

AuCS®/SI Accessory



Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.



Air Flow Top View



2 Cube Sizes Available



Half Dice
3/8" x 1 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

Guardian® Accessory

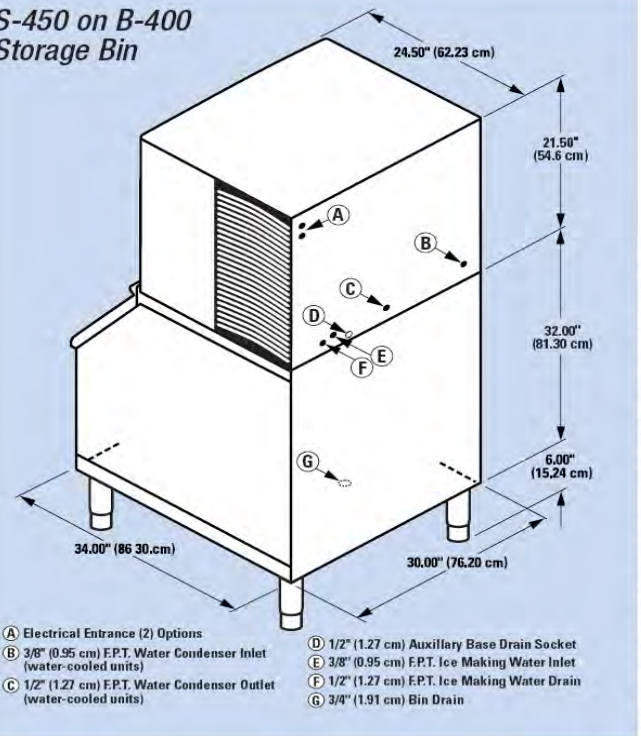


Slime Inhibitor with Ice Sentry sachet refill. Sachet holder standard in S-Series machine.

Space-Saving Designs

	S-450 B-400	S-450 B-570
Height*	59.50"	71.50"
Width	151.13 cm	181.61 cm
Depth	30.00"	30.00"
Bin Storage	290 lbs.	430 lbs.
	131.7 kgs.	195.2 kgs.

S-450 on B-400 Storage Bin



Installation Note - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

* Height includes adjustable bin legs 6.00" to 8.00", (15.24 to 20.32 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."



S-Series 500 Ice Cube Machine



S-Series 500
Ice Machine on B-570 Bin

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

- Up to 560 lbs. (254 kgs.) daily ice production
- Only 30" (76.20 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 500

Model	Ice Shape	Ice Production 24 Hours				Power kWh/100 lbs. @ 90°/70°F	CEE* Rating	ENERGY STAR*
		70°Air/50°F Water		90°Air/70°F Water				
		lbs.	kgs.	lbs.	kgs.			
SD-0502A	dice	330	240	420	420	5.5	Tier 3	★
SD-0503W	dice	350	249	470	470	4.3	Tier 2	
SY-0504A	half-dice	560	254	440	200	5.4	Tier 3	★
SY-0505W	half-dice	350	249	485	220	4.3	Tier 2	
REMOTE AIR-COOLED WITH JC-0495 CONDENSER								
SD-0502N	dice	510	231	425	204	5.8	Tier 3	★
SY-0504N	half-dice	490	218	450	193	6.1	Tier 3	★

Water usage/100 lbs./45.4 kgs. of ice

Potable Water: 18 gallons, 68 liters • Water-cooled Condenser: 138 gallons, 522 liters

Order ice storage bin separately. "A" or "W" following model number indicates "Air" or "Water" condensing unit; ice storage bin and JC-0495A remote condenser must be ordered separately. Consult remote condenser specification sheet for details.

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

Ice Machine Electric

115/60/1 standard. (208-230/60/1 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled — 20 amps

Water-cooled — 13.5 amps, Remote - 20 amps

Max. fuse size: Air-cooled and Water-cooled — 20 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

6,100 (average) 6,900 (peak)

Compressor:

Nominal rating: 3/4 HP

Cupra-Nickel Condenser:

(Water-cooled models)

Adds protection from corrosive water elements.

Operating Limits:

Ambient Temperature Range:

Air and water:

35° to 110°F (1.6° to 43.3°C)

Remote: -20° to 120°F (-29° to 49°C)

Water Temperature Range:

35° to 90°F (1.6° to 32.2°C)

Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS®/SI Accessory

Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

2 Cube Sizes Available



Half Dice

3/8" x 11/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

24-HOUR PRODUCTION†								lbs. kgs.			
air temp	HALF-DICE CUBE				DICE CUBE				air temp	water temp	
	water temp		water temp		water temp		water temp				
	°F	°C	°F	°C	°F	°C	°F	°C			
70°	560	510	465	465	70°	590	485	445	70°	500	440
21°	254	231	211	211	21°	240	220	202	21°	249	200
80°	510	470	425	425	80°	485	445	405	80°	540	430
27°	231	213	193	193	27°	220	202	184	27°	245	195
90°	460	440	390	390	90°	440	420	370	90°	530	425
32°	209	200	177	177	32°	200	191	168	32°	240	193
WATER-COOLED AIR-COOLED											
70°	550	500	440	440	70°	550	500	440	70°	550	440
21°	249	227	200	200	21°	249	227	200	21°	249	200
80°	540	485	435	435	80°	540	485	430	80°	540	430
27°	245	220	197	197	27°	245	220	195	27°	245	195
90°	530	485	425	425	90°	530	470	425	90°	530	425
32°	240	220	193	193	32°	240	213	193	32°	240	193
REMOTE											
70°	510	465	425	425	70°	480	445	415	70°	480	415
21°	231	211	193	193	21°	218	202	188	21°	218	188
80°	490	450	410	410	80°	465	435	400	80°	465	400
27°	222	204	186	186	27°	211	197	181	27°	211	181
90°	475	450	400	400	90°	455	425	390	90°	455	390
32°	215	204	181	181	32°	206	193	177	32°	206	177

†Production for Dice and Half Dice cubes. Data is published for 60 Hz machines; 50 Hz machines produce approximately 7% less ice.

Space-Saving Designs

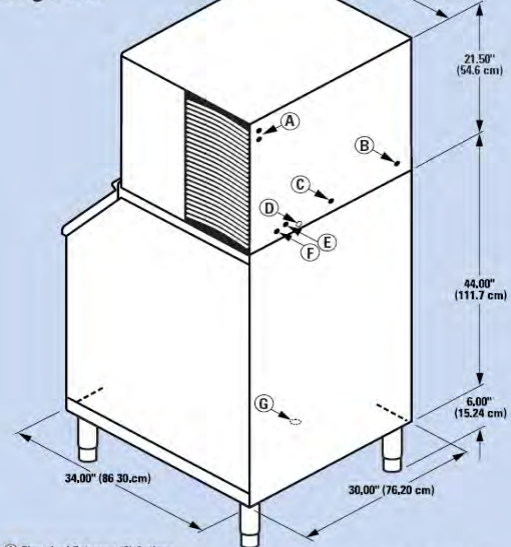
S-500
B-400

S-500
B-570**



	S-500 B-400	S-500 B-570**
Height*	59.50" 151.13 cm	71.50" 181.61 cm
Width	30.00" 76.20 cm	30.00" 76.20 cm
Depth	34.00" 86.30 cm	34.00" 86.30 cm
Bin Storage	290 lbs. 131.7 kgs.	430 lbs. 195.2 kgs.

S-500 on B-570 Storage Bin



- (A) Electrical Entrance (2) Options
- (B) 3/8" (0.95 cm) F.P.T. Water Condenser Inlet (water-cooled units)
- (C) 1/2" (1.27 cm) F.P.T. Water Condenser Outlet (water-cooled units)
- (D) 1/2" (1.27 cm) Auxiliary Base Drain Socket
- (E) 3/8" (0.95 cm) F.P.T. Ice Making Water Inlet
- (F) 1/2" (1.27 cm) F.P.T. Ice Making Water Drain
- (G) 3/4" (1.91 cm) Bin Drain

Installation Note - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

* Height includes adjustable bin legs 6.00" to 8.00", (15.24 to 20.32 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity." **K-00214 bin adapter required.



S-Series 600 Ice Cube Machine



S-Series 600
Ice Machine on B-570 Bin

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

- Up to 650 lbs. (295 kgs.) daily ice production
- Only 30" (76.20 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial

- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 600

Model	Ice Shape	Ice Production 24 Hours				Power kWh/100 lbs. @ 90°/70°F	CEE* Rating	ENERGY STAR*
		70°Air/50°F Water		90°Air/70°F Water				
SY-0604A	half-dice	650	295	540	245	5.6	Tier 2	★
SY-0605W	half-dice	650	295	610	277	4.5	Tier 2	
SD-0602A	dice	650	295	540	245	5.6	Tier 2	★
SD-0603W	dice	650	295	610	277	4.5	Tier 2	
REMOTE AIR-COOLED WITH JC-0895A CONDENSER								
SY-0604N	half-dice	630	286	570	259	5.9	Tier 2	★
SD-0602N	dice	630	286	570	259	5.9	Tier 2	★
Water usage/100 lbs./45.4 kgs. of ice								
Potable Water: 20 gallons, 76 liters • Water-cooled Condenser: 170 gallons, 643 liters								

Order ice storage bin separately. "A" or "W" following model number indicates "Air" or "Water" condensing unit for storage bin and JC-0895A (remote condenser must be ordered separately). Consult remote condenser specification sheet for details.

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

24-HOUR PRODUCTION †											lbs. kgs.
AIR-COOLED UNIT			WATER-COOLED UNIT				REMOTE AIR-COOLED UNIT				
air temp	water temp		air temp	water temp		air temp	water temp				
°F	50°	70°	90°	°F	50°	70°	90°	°F	50°	70°	90°
°C	10°	21°	32°	°C	10°	21°	32°	°C	10°	21°	32°
70°	650	600	560	70°	650	630	590	-20° to 70°	630	580	550
21°	295	272	254	21°	295	286	268	-29° to 21°	286	263	249
80°	640	580	550	80°	640	620	580	90°	620	570	530
27°	290	263	249	27°	290	281	263	32°	281	259	240
90°	590	540	510	90°	630	610	580	100°	580	530	500
32°	268	245	231	32°	286	277	263	38°	263	240	227

†Production for Dice and Half Dice cubes. Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

Ice Machine Electric

208-230/60/1 standard. (230/50/1 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled — 8.3 amps

Water-cooled — 7.9 amps, Remote - 8.9 amps

Max. fuse size: Air-cooled, Water-cooled, Remote — 15 amps
HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

9,000 (average) 13,900 (peak)

Compressor:

Nominal rating: 1 HP

Cupra-Nickel Condenser:

(Water-cooled models)

Adds protection from corrosive water elements.

Operating Limits:

Ambient Temperature Range:

Air and water:

35° to 110°F (1.6° to 43.3°C)

Remote: -20° to 120°F (-29° to 49°C)

Water Temperature Range:

35° to 90°F (1.6° to 32.2°C)

Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS®SI Accessory

Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

2 Cube Sizes Available



Half Dice

3/8" x 1 1/8" x 7/8"

(.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"

(2.22 x 2.22 x 2.22 cm)

Space-Saving Designs



Height*

S-600
B-400

59.50"

S-600
B-570

71.50"

Width

151.13 cm

181.61 cm

Depth

30.00"

30.00"

Bin Storage

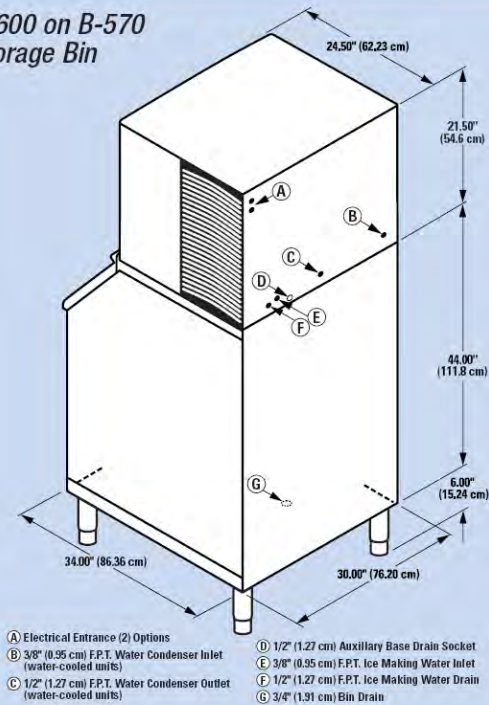
86.30 cm

86.30 cm

290 lbs.
131.7 kgs.

430 lbs.
195.2 kgs.

S-600 on B-570 Storage Bin



Installation Note - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

* Height includes adjustable bin legs 6.00" to 8.00", (15.24 to 20.32 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."



Manitowoc

S-Series 850 Ice Cube Machine



S-Series 850
Ice Machine on B-570 Bin

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

- Up to 940 lbs. (426 kgs.) daily ice production
- Only 30" (76.20 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 850

Model	Ice Shape	Ice Production 24 Hours				Power kWh/100 lbs. @ 90°/70°F				ENERGY STAR*
		70°Air/50°F Water		90°Air/70°F Water		1 ph		3 ph		
		lbs.	kgs.	lbs.	kgs.	CEE Rating*	CEE Rating*	CEE Rating*	CEE Rating*	
SY-0854A	half-dice	940	426	725	329	5.3	Tier 2	5.2	Tier 3	★
SY-0855W	half-dice	875	397	810	367	4.2	Tier 2	4.2	Tier 2	
SD-0852A	dice	785	356	615	279	6	Tier 1	5.8	Tier 1	
SD-0853W	dice	835	379	740	336	4.5	Tier 1	4.5	Tier 1	
REMOTE AIR-COOLED WITH JC-0895A CONDENSER										
SY-0894N	half-dice	860	390	750	340	5.3	Tier 2	5.2	Tier 2	★
SD-0892N	dice	750	340	645	293	5.9	Tier 1	5.7	Tier 2	

Water usage/100 lbs./45.4 kgs. of ice
 Potable Water: 18 gallons, 68 liters • Water-cooled Condenser: 145 gallons, 549 liters

Order ice storage bin separately. "A" or "W" following model number indicates "Air" or "Water" condensing unit, for storage bin and JC-0895A remote condenser must be ordered separately. Consult remote condenser specification sheet for details. To order 3 phase add "3" suffix to model # (SD-0852A3)

* Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

Ice Machine Electric

208-230/60/1 standard. (208-230/60/3 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled — 11.9 1ph 9.2 3ph
 Water-cooled — 10.9 1ph 8.2 3ph, Remote - 11.9 1ph 9.2 3ph

Max. fuse size: Air-cooled, Water-cooled,

Remote — 20 amps 1ph 15 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

13,000 (average) 16,000 (peak)

Compressor:

Nominal rating: 1.5 HP

Cupra-Nickel Condenser:

(Water-cooled models)

Adds protection from corrosive water elements.

Operating Limits:

Ambient Temperature Range:

Air and water:

35° to 110°F (4.4° to 43.3°C)

Remote: -20° to 120°F (-29° to 49°C)

Water Temperature Range:

35° to 90°F (4.4° to 32.2°C)

Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS®/SI Accessory

Automatic Cleaning System purchased as an option and installed in the machine. Simple plug and play electrical, communication, and dispense system.

2 Cube Sizes Available



Half Dice

3/8" x 1 1/8" x 7/8"
 (.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"
 (2.22 x 2.22 x 2.22 cm)

24-HOUR PRODUCTION†										lbs. kgs.	
	HALF-DICE CUBE				DICE CUBE						
	air temp		water temp		air temp		water temp				
	°F	°C	50°	70°	70°	90°	°F	°C			50°	70°	90°
AIR-COOLED	70°	21°	940	870	800	70°	785	735	690		
	21°	80°	426	395	363	21°	356	333	313		
	80°	80°	850	785	725	80°	715	675	630		
	27°	80°	386	356	329	27°	324	306	286		
	90°	90°	760	725	650	90°	645	615	575		
	32°	32°	345	329	295	32°	293	279	261		
	70°	21°	875	800	720	70°	835	755	680		
	21°	80°	397	363	327	21°	379	342	308		
	80°	80°	865	790	715	80°	810	740	665		
	27°	80°	392	358	324	27°	367	336	302		
	90°	90°	855	810	710	90°	780	740	655		
	32°	32°	388	367	322	32°	354	336	297		
REMOTE	70°	21°	860	795	730	70°	750	700	645		
	21°	80°	390	361	331	21°	340	318	293		
	80°	80°	815	755	695	80°	715	665	615		
	27°	80°	370	342	315	27°	324	302	279		
	90°	90°	780	750	655	90°	680	645	585		
	32°	32°	354	340	297	32°	308	293	265		

Space-Saving Designs

S-850
B-570

S-850
B-970**

Height*

76.50"

76.50"

Width

194.30 cm

194.30 cm

Depth

76.20 cm

121.92 cm

Bin Storage

34.00"

34.00"

86.30 cm

86.30 cm

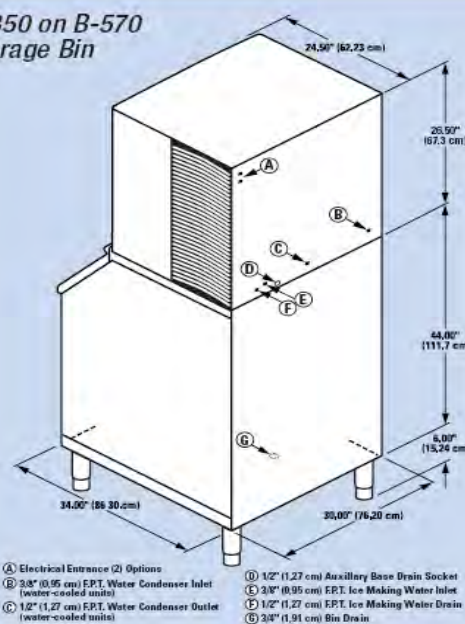
430 lbs.

710 lbs.

195.2 kgs.

322.2 kgs.

S-850 on B-570 Storage Bin



Installation Note - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

* Height includes adjustable bin legs 6.00" to 8.00", (15.24 to 20.32 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity." **K-00214 bin adapter required.



Manitowoc

S-Series 1000 Ice Cube Machine



S-Series 1000
Ice Machine on B-570 Bin

- Up to 1,075 lbs. (488 kgs.) daily ice production
- Only 30" (76.20 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Patented ice harvest technology reduces energy requirements
- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

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Manitowoc S-Series 1000

Model	Ice Shape	Ice Production 24 hours				Power kWh/100 lbs. @ 90°/70°F			
		70°Air/50°F Water		90°Air/70°F Water		1 Ph	CEE* Rating	3 Ph	CEE* Rating
		lbs.	kgs.	lbs.	kgs.				
SD-1002A	dice	1,050	476	840	381	5.5	Tier 1	5.5	Tier 1
SD-1003W	dice	1,000	454	855	433	4.3	Tier 1	4.3	Tier 1
SY-1004A	half-dice	1,050	476	840	381	5.5	Tier 1	5.5	Tier 1
SY-1005W	half-dice	1,075	488	860	435	4.3	Tier 1	4.3	Tier 1
REMOTE AIR-COOLED WITH JC-0895A CONDENSER									
SD-1092N	dice	1,030	467	870	395	5.2	Tier 1	5.2	Tier 1
SY-1094N	half-dice	1,060	481	920	417	5.2	Tier 1	5.2	Tier 1
Water usage/100 lbs./45.4 kgs. of ice									
Potable Water: 18 gallons, 68 liters • Water-cooled Condenser: 160 gallons, 625 liters									

(Order ice storage bin separately). "A" or "W" following model number indicates "Air" or "Water" condensing unit, ice storage bin and JC-0895A remote condenser must be ordered separately. Consult remote condenser specification sheet for details. To order 3 phase add "3" suffix to model # (SD-1002A3).

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

Ice Machine Electric

208-230/60/1 standard. (208-230/60/3 and 230/50/1 also available.)
Min. circuit ampacity: Air-cooled — 17.3 1ph 10.6 3ph
 Water-cooled — 16.3 1ph 9.6 3ph, Remote - 15.7 1ph 10.6 3ph
Max. fuse size: Air-cooled / Water cooled 30 amps 1ph 15 amps 3ph Remote — 25 amps 1ph 15 amps 3ph
 HACR-type circuit breakers can be used in place of fuses.

Air Flow Top View

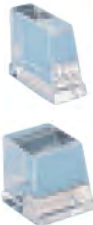


Specifications

BTU Per Hour:
 12,000 (average) 18,000 (peak)
Compressor:
 Nominal rating: 1.5 HP
Cupra-Nickel Condenser:
 (Water-cooled models)
 Adds protection from corrosive water elements.
Operating Limits:

- Ambient Temperature Range:**
Air and water:
 35° to 110°F (4.4° to 43.3°C)
 Remote: -20° to 120°F (-29° to 49°C)
- Water Temperature Range:**
 35° to 90°F (4.4° to 32.2°C)
- Water Pressure Ice Maker Water In:**
 Min. 20 psi (137.9 kPa)
 Max. 80 psi (551.1 kPa)
- Condenser Inlet Water In:**
 (Water cooled only)
 Min. 20 psi (137.9 kPa)
 Max. 150 psi (1,034.2 kPa)

2 Cube Sizes Available



Half Dice
 3/8" x 1 1/8" x 7/8"
 (.95 x 2.86 x 2.22 cm)

Dice
 7/8" x 7/8" x 7/8"
 (2.22 x 2.22 x 2.22 cm)

AuCS®/SI Accessory

Automatic Cleaning System purchased as an option and installed in the machine. Simple plug and play electrical, communication, and water system.

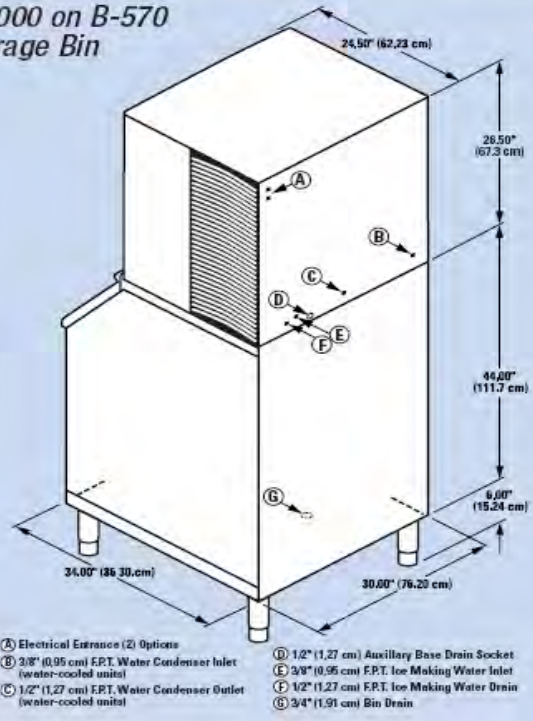
24-HOUR PRODUCTION†								lbs., kgs.	
HALF-DICE CUBE				DICE CUBE					
air temp		water temp		air temp		water temp			
F	50°	70°	90°	F	50°	70°	90°		
°C	10°	21°	32°	°C	10°	21°	32°		
70°	1,050	970	890	70°	1,050	970	890		
21°	476	440	404	21°	476	440	404		
80°	960	990	825	80°	960	990	825		
27°	435	449	374	27°	435	449	374		
90°	880	840	745	90°	880	840	745		
32°	399	381	338	32°	399	381	338		
70°	1,075	970	870	70°	1,000	965	850		
21°	488	440	395	21°	454	438	396		
80°	1,055	965	860	80°	990	960	845		
27°	479	438	390	27°	449	435	383		
90°	1,030	960	855	90°	975	955	840		
32°	467	435	388	32°	442	433	381		
70°	1,060	1,000	935	70°	1,030	960	885		
21°	481	454	424	21°	467	435	401		
80°	1,005	945	885	80°	975	905	835		
27°	456	429	401	27°	442	411	379		
90°	950	920	830	90°	920	870	780		
32°	431	417	376	32°	417	395	354		

Space-Saving Designs



	S-1000 B-570	S-1000 B-970**
Height*	76.50"	76.50"
	194.30 cm	194.30 cm
Width	30.00"	48.00"
	76.20 cm	121.92 cm
Depth	34.00"	34.00"
	86.30 cm	86.30 cm
Bin Storage	430 lbs.	710 lbs.
	195.2 kgs.	322.2 kgs.

S-1000 on B-570 Storage Bin



- A Electrical Entrance (Z) Options
- B 3/8" (0.95 cm) F.P.T. Water Condenser Inlet (water-cooled units)
- C 1/2" (1.27 cm) F.P.T. Water Condenser Outlet (water-cooled units)
- D 1/2" (1.27 cm) Auxiliary Base Drain Socket
- E 3/8" (0.95 cm) F.P.T. Ice Making Water Inlet
- F 1/2" (1.27 cm) F.P.T. Ice Making Water Drain
- G 3/4" (1.91 cm) Bin Drain

Installation Note - Minimum Installation Clearance: Top/Sides are 8" (20.32 cm), Back is 5" (12.7 cm).

* Height includes adjustable bin legs 6.00" to 8.00", (15.24 to 20.32 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity." **K-00140 bin adapter required.



Manitowoc

S-Series 1200 Ice Cube Machine



S-Series 1200
Ice Machine on B-570 Bin

- SANITATION**
We've made it
simple to clean
- SAVINGS**
The perfect balance of
power and efficiency
- SOUND**
Designed to run
whisper-quiet
- SERVICEABILITY**
Easy access means
less downtime

- Up to 1,205 lbs. (547 kgs.) daily ice production
- Only 30" (76.20 cm) wide
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Patented ice harvest technology reduces energy requirements
- Hinged front door for easy access
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 1200

Model	Ice Shape	Ice Production 24 hours				Power kWh/100 lbs. @90°/70°			
		70°Air/50°Water		90°Air/70°Water		1 Ph	CEE* Rating	3 Ph	CEE* Rating
		lbs.	kgs.	lbs.	kgs.				
SY-1204A	half-dice	1,205	547	945	429	5.5	Tier 1	5.3	Tier 1
SY-1205W	half-dice	1,170	531	1,065	483	4.3	Tier 1	4.3	Tier 1
SD-1202A	dice	1,100	499	890	404	5.6	Tier 1	5.4	Tier 1
SD-1203W	dice	1,165	528	1,030	467	4.3	Tier 1	4.3	Tier 1

Water usage/100 lbs./45.4 kgs. of ice

Potable Water: 20 gallons, 76 liters • Water-cooled Condenser: 150 gallons, 568 liters

Order ice storage bin separately. "A" or "W" following model number indicates "Air" or "Water" condensing unit. Ice storage bin must be ordered separately. To order 3 phase add "3" suffix to model # (SD-1203A3).

 *Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

24-HOUR PRODUCTION ↑								lbs. /kgs.
AIR-COOLED UNIT				WATER-COOLED UNIT				
air temp	water temp			air temp	water temp			
°F	50°	70°	90°	°F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	
70°	1,230	1,100	1,050	70°	1,260	1,160	1,020	
21°	558	499	477	21°	572	527	463	
80°	1,190	1,070	1,010	80°	1,220	1,150	1,020	
27°	540	486	459	27°	554	522	463	
90°	1,090	1,010	930	90°	1,200	1,120	1,000	
32°	495	459	422	32°	545	508	454	

†Production for Dice and Half Dice cubes.

Ice Machine Electric

208-230/60/1 standard. (208-230/60/3 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled — 25.0 1ph 16.0 3ph
Water-cooled — 25.0 1ph 16.0 3ph

Max. fuse size: Air-cooled, Water-cooled: 35 amps 1ph
20 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

20,700 (average) 24,500 (peak)

Compressor:

Nominal rating: 2.25 HP

Cupra-Nickel Condenser:

(Water-cooled models)
Adds protection from corrosive water elements.

Operating Limits:

• Ambient Temperature Range:

Air and water:
35° to 110°F (1.7° to 43.3°C)

• Water Temperature Range:

35° to 90°F (1.7° to 32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)
Max. 80 psi (551.1 kPa)

• Condenser Inlet Water In:

(Water cooled only)
Min. 20 psi (137.9 kPa)
Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS®/SI Accessory

Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.



2 Cube Sizes Available



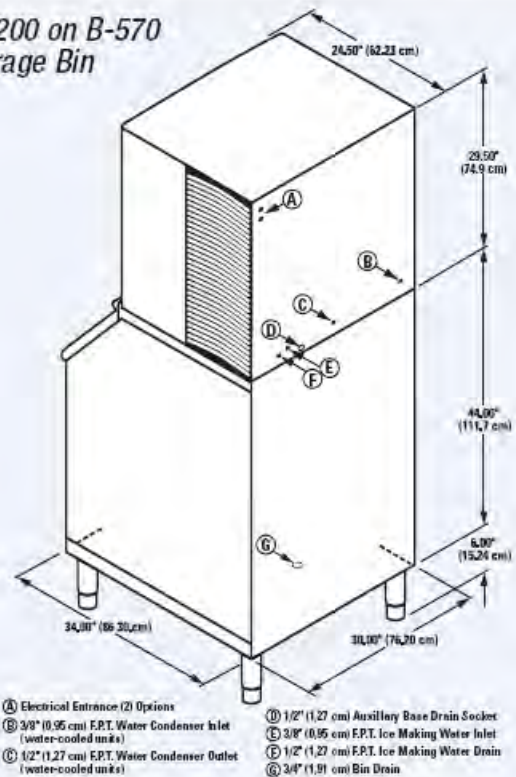
Half Dice
3/8" x 1 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

Space-Saving Designs	S-1200 B-570	S-1200 B-970**
 		
Height*	79.50"	79.50"
	201.93 cm	201.93 cm
Width	30.00"	48.00"
	76.20 cm	121.92 cm
Depth	34.00"	34.00"
	86.30 cm	86.30 cm
Bin Storage	430 lbs.	710 lbs.
	195.2 kgs.	322.2 kgs.

S-1200 on B-570 Storage Bin



Installation Note -

Minimum Installation Clearance: Top/Sides are 12" (30.5 cm). Back is 5" (12.7 cm).

* Height includes adjustable bin legs 6.00" to 8.00", (15.24 to 20.32 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity." **K-00370 bin adapter required.



Manitowoc

S-Series 1400 Ice Cube Machine



S-Series 1400
Ice Machine on B-970 Bin

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

- Up to 1,460 lbs. (662 kgs.) daily ice production
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Patented ice harvest technology reduces energy requirements
- Hinged front door for easy access
- R-404A CFC-free refrigerant
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

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Manitowoc S-Series 1400

Model	Ice Shape	Ice Production 24 hours		Power Usage KWh/100 lbs. @ 90° Air/70°F				Water Usage/100 lbs. 45.4 kgs. of Ice		ENERGY STAR*
		70° Air/ 50°F Water	90° Air/ 70°F Water	1 Ph	CEE Tier	3 Ph	CEE Tier	Potable Water	CEE Tier	
		lbs.	lbs.					gal.		
SD-1402A	dice	1440	1170	4.88	2	4.83	2	22.5	2	★
		653	531					85.2		
SY-1404A	half-dice	1450	1200	4.88	2	4.83	2	22.5	2	★
		658	544					85.2		
SD-1403W	dice	1430	1290	3.78	2	3.75	2	22.5	2	NA
		649	585					85.2		
SY-1405W	half-dice	1460	1310	3.78	2	3.75	2	22.5	2	NA
		662	594					85.2		
Water-cooled Condenser Water Usage /100 lbs./45.4 kgs. of ice: 143 gal./541 L										
SD-1492N	dice	1380	1210	4.52	2	4.45	2	22.5	2	★
		626	549					85.2		
SY-1494N	half-dice	1430	1230	4.52	2	4.45	2	22.5	2	★
		649	558					85.2		

*Order ice storage bin separately. Ice storage bin and JC-1395A remote condenser must be ordered separately. Consult remote condenser specification sheet for details. To order 3 phase add "3" suffix to model # (SD-1402A3).

Ice Machine Electric

208-230/60/1 standard. (208-230/60/3 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled: 18.3 1ph 13.2 3ph
Water-cooled: 16.9 1ph 11.8 3ph
Remote: 17.9 1ph 12.8 3ph

Max. fuse size: Air-cooled, Water-cooled, Remote: 30 amps 1ph
20 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

23,500 (average) 27,000 (peak)

Compressor:

Nominal rating: 2 HP

Cupra-Nickel Condenser:

(Water-cooled models)
Adds protection from
corrosive water elements.

Operating Limits:

Ambient Temperature Range:

Air and water:

35° to 110°F (1.7° to 43.3°C)

Remote: -20° to 120°F (-29° to 49°C)

Water Temperature Range:

35° to 90°F (1.7° to 32.2°C)

Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS®SI Accessory

Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

2 Cube Sizes Available



Half Dice

38" x 11 7/8" x 7/8"

(.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"

(2.22 x 2.22 x 2.22 cm)

24-HOUR ICE PRODUCTION							lbs.	kg.
Air Temp.	F°	C°	Dice			Half Dice		
			Water Temperature			Water Temperature		
			50°F	70°F	90°F	50°F	70°F	90°F
			10°C	21°C	32°C	10°C	21°C	32°C
AIR-COOLED	70°F	1440	1330	1250	1450	1330	1260	
	21°C	653	603	567	658	603	572	
	80°F	1340	1240	1160	1390	1270	1200	
	27°C	608	562	526	630	576	544	
	90°F	1270	1170	1090	1320	1200	1130	
	32°C	576	531	494	599	544	513	
WATER-COOLED	70°F	1430	1310	1160	1460	1350	1200	
	21°C	649	594	526	662	612	544	
	80°F	1420	1300	1150	1440	1330	1180	
	27°C	644	590	522	653	603	535	
	90°F	1410	1290	1140	1430	1310	1160	
	32°C	640	585	517	649	594	526	
REMOTE-COOLED*	70°F	1380	1270	1200	1430	1320	1220	
	21°C	626	576	544	649	599	553	
	80°F	1360	1250	1180	1400	1290	1190	
	27°C	617	567	535	635	585	540	
	90°F	1330	1210	1140	1370	1230	1160	
	32°C	603	549	517	621	558	526	

Space-Saving Designs

S-1400
B-970



Height*

76.50"

Height includes adjustable bin legs 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."

Width

194.31 cm

Depth

121.92 cm

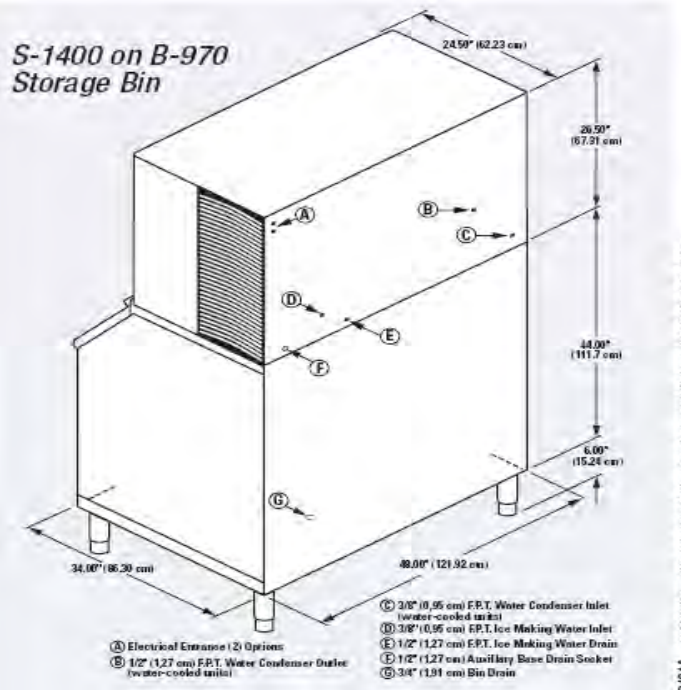
Bin Storage

86.30 cm

Bin Storage

710 lbs.

322.2 kgs.



Installation Note - Minimum installation clearance:
Water and remote units — Top/sides: 8" (20.32 cm), back: 5" (12.7 cm).
Air-cooled units — Top/sides: 24" (60.96 cm), back: 12" (30.48 cm).



Manitowoc

S-Series 1600 Ice Cube Machine



S-Series 1600
Ice Machine on B-970 Bin

- Up to 1,690 lbs. (767 kgs.) daily ice production
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Patented ice harvest technology reduces energy requirements
- Hinged front door for easy access
- R-404A CFC-free refrigerant
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

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<http://www.diamondicesystems.com>

Manitowoc S-Series 1600

Model	Cube size	Ice production 24 hours		Power kWh/100 lbs.
		lbs.	kgs.	
SD-1602A	dice	1,370	621	5.2
SD-1603W	dice	1,480	671	4.2
SY-1604A	half-dice	1,370	621	5.2
SY-1605W	half-dice	1,480	671	4.2
REMOTE AIR-COOLED WITH JC-1395A CONDENSER				
SD-1692N	dice	1,420	644	4.8
SY-1694N	half-dice	1,420	644	4.8
Water usage/100 lbs./45.4 kgs. of ice				
Potable Water: 18 gallons, 68.1 liters • Water-cooled Condenser: 155 gallons, 586.7 liters				

Open ice storage bin separately. "F" or "W" following model number indicates "Air" or "Water" condensing unit. Ice storage bin and JC-1395 remote condenser must be ordered separately. Consult remote condenser specification sheet for details. To order 3 phase add "3" suffix to model # (SD-1602A3).

 Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810

Ice Machine Electric

208-230/60/1 standard. (208-230/60/3 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled: 19.8 1ph 13.5 3ph
 Water-cooled: 18.4 1ph 12.1 3ph
 Remote: 19.4 1ph 13.1 3ph

Max. fuse size: Air-cooled, Water-cooled, Remote: 30 amps 1ph
 20 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

21,000 (average) 31,000 (peak)

Compressor:

Nominal rating: 2.5 HP

Cupra-Nickel Condenser:

(Water-cooled models)
 Adds protection from corrosive water elements.

Operating Limits:

• Ambient Temperature Range:

Air and water:

35° to 110°F (1.7° to 43.3°C)

Remote: -20° to 120°F (-29° to 49°C)

• Water Temperature Range:

35° to 90°F (1.7° to 32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

• Condenser Inlet Water In:

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS®SI Accessory

Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

2 Cube Sizes Available



Half Dice
 3/8" x 11/8" x 7/8"
 (.95 x 2.86 x 2.22 cm)



Dice
 7/8" x 7/8" x 7/8"
 (2.22 x 2.22 x 2.22 cm)

24-HOUR PRODUCTION †										lbs. kgs.	
AIR-COOLED UNIT			WATER-COOLED UNIT			REMOTE AIR-COOLED UNIT					
air temp	water temp		air temp	water temp		air temp	water temp				
°F	50°	70°	90°	°F	50°	70°	90°	°F	50°	70°	90°
°C	10°	21°	32°	°C	10°	21°	32°	°C	10°	21°	32°
70°	1,660	1,540	1,480	70°	1,660	1,510	1,350	-20° to 70°	1,570	1,470	1,350
21°	767	699	671	21°	753	685	612	-29° to 21°	712	667	612
80°	1,630	1,460	1,380	80°	1,610	1,500	1,320	90°	1,520	1,420	1,290
27°	739	662	626	27°	730	680	599	32°	689	644	585
90°	1,490	1,370	1,370	90°	1,600	1,480	1,310	100°	1,420	1,300	1,220
32°	676	621	621	32°	726	671	594	38°	644	590	553

†Production for Dice and Half Dice cubes. Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

Space-Saving Designs

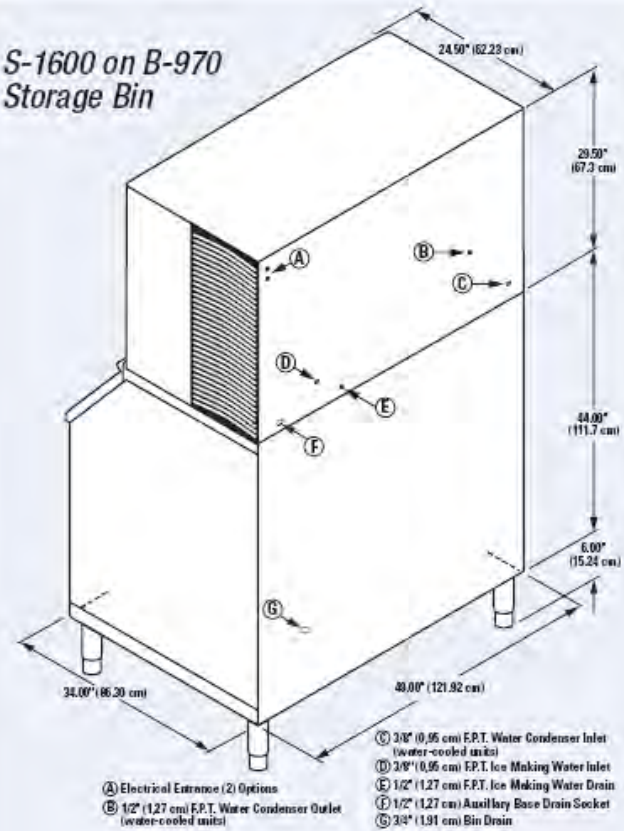
**S-1600
B-970**



Height* 79.50"
Width 201.90 cm
Depth 121.92 cm
Bin Storage 86.30 cm
 710 lbs.
 322.2 kgs.

Height includes adjustable bin legs 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."

S-1600 on B-970 Storage Bin



Installation Note - Minimum installation clearance:
 Water and remote units — Top/sides: 8" (20.32 cm), back: 5" (12.7 cm).
 Air-cooled units — Top/sides: 24" (60.96 cm), back: 12" (30.48 cm).



S-Series 1800 Ice Cube Machine



S-Series 1800
Ice Machine on B-970 Bin

- SANITATION**
We've made it simple to clean
- SAVINGS**
The perfect balance of power and efficiency
- SOUND**
Designed to run whisper-quiet
- SERVICEABILITY**
Easy access means less downtime

- Up to 1,880 lbs. (853 kgs.) daily ice production
- Removable water distribution tube with no tools
- Food zone designed with soft, round, cove corners
- Patented cleaning and sanitizing technology
- Select components made with AlphaSan antimicrobial
- Patented ice harvest technology reduces energy requirements
- Hinged front door for easy access
- R-404A CFC-free refrigerant
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

America's #1 Selling Ice Machine

Ice Cube & Flake Machines • Ice Storage Bins • Ice Dispensers



<http://www.diamondicesystems.com>

Manitowoc S-Series 1800

Model	Cube size	Ice production 24 hours		Power kWh/100 lbs.
		lbs.	kgs.	
SD-1802A	dice	1,540	699	5.9
SD-1803W	dice	1,710	776	4.9
SF-1804A	half-dice	1,540	699	5.0
SF-1805W	half-dice	1,710	776	4.0
REMOTE AIR-COOLED WITH JC-1395A CONDENSER				
SD-1892N	dice	1,610	730	4.7
SF-1894N	half-dice	1,610	730	4.7

Water usage/100 lbs./45.4 kgs. of ice
 Potable Water: 15 gallons, 56.7 liters • Water-cooled Condenser: 155 gallons, 582.7 liters
 (Water-cooled condenser only) • 1/2" (1.27 cm) Ice Making Water Inlet (Water-cooled units only) • 1/2" (1.27 cm) Ice Making Water Drain (Water-cooled units only) • 1/2" (1.27 cm) Auxiliary Base Drain Socket (Water-cooled units only) • 3/4" (1.91 cm) Bin Drain (Water-cooled units only)



Ice Machine Electric

208-230/60/1 standard. (208-230/60/3 and 230/50/1 also available.)

Min. circuit ampacity: Air-cooled: 23.5 1ph 13.4 3ph
 Water-cooled: 22.1 1ph 12.0 3ph
 Remote: 23.1 1ph 13.0 3ph

Max. fuse size: Air-cooled, Water-cooled, Remote: 40 amps 1ph
 20 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:
 24,000 (average) 36,000 (peak)

Compressor:
 Nominal rating: 3 HP
Cupra-Nickel Condenser:
 (Water-cooled models)
 Adds protection from
 corrosive water elements.

Operating Limits:

- Ambient Temperature Range:**
Air and water:
 35° to 110°F (1.7° to 43.3°C)
 Remote: -20° to 120°F (-29° to 49°C)
- Water Temperature Range:**
 35° to 90°F (1.7° to 32.2°C)
- Water Pressure Ice Maker Water In:**
 Min. 20 psi (137.9 kPa)
 Max. 80 psi (551.1 kPa)
- Condenser Inlet Water In:**
 (Water cooled only)
 Min. 20 psi (137.9 kPa)
 Max. 150 psi (1,034.2 kPa)

Air Flow Top View



AuCS®SI Accessory

Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

2 Cube Sizes Available

- Half Dice**
 38" x 11 1/8" x 7 1/8"
 (.95 x 2.86 x 2.22 cm)
- Dice**
 7/8" x 7/8" x 7/8"
 (2.22 x 2.22 x 2.22 cm)

24-HOUR PRODUCTION †										lbs. kgs.	
AIR-COOLED UNIT			WATER-COOLED UNIT			REMOTE AIR-COOLED UNIT					
air temp	water temp		air temp	water temp		air temp	water temp				
°F	50°	70°	90°	°F	50°	70°	90°	°F	50°	70°	90°
°C	10°	21°	32°	°C	10°	21°	32°	°C	10°	21°	32°
70°	1,880	1,750	1,610	70°	1,870	1,750	1,530	-20° to 70°	1,800	1,630	1,540
21°	855	795	732	21°	850	795	695	-29° to 21°	815	741	700
80°	1,770	1,660	1,550	80°	1,870	1,730	1,510	90°	1,750	1,610	1,520
27°	805	755	705	27°	850	786	686	32°	795	732	691
90°	1,670	1,540	1,450	90°	1,860	1,710	1,490	100°	1,690	1,630	1,420
32°	759	700	659	32°	845	777	677	38°	767	740	649

† Production for 208 and 230 Voltages. Data is given for 60 Hz machines. SD and SF models produce approximately 7 lbs. of ice per hour.

Space-Saving Designs

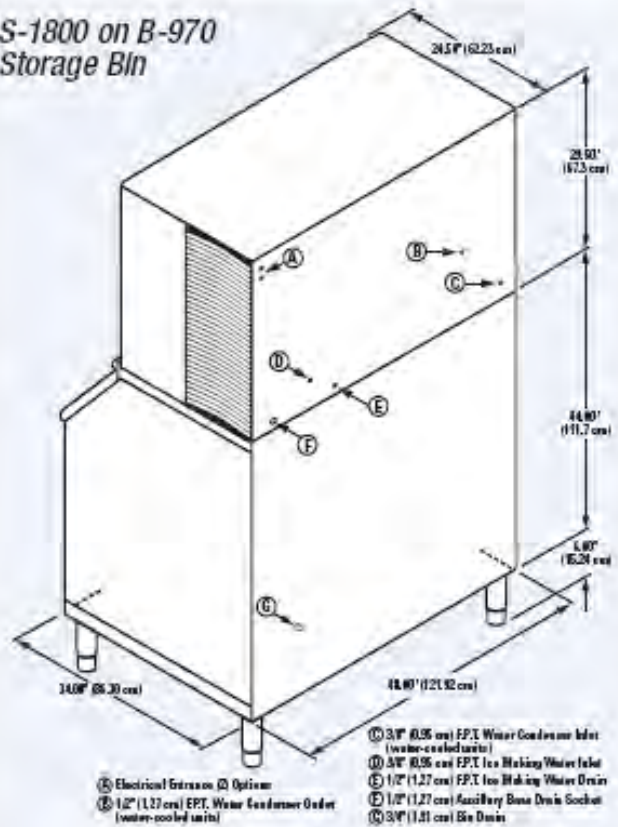
S-1800
B-970



Height* 79.50"
 201.90 cm
Width 48.00"
 121.92 cm
Depth 34.00"
 86.30 cm
Bin Storage 710 lbs.
 322.2 kgs.

Height includes adjustable bin legs 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity."

S-1800 on B-970 Storage Bin



Installation Note - Minimum installation clearance:
 Water and remote units — Top/sides: 8" (20.32 cm), back: 5" (12.7 cm).
 Air-cooled units — Top/sides: 24" (60.96 cm), back: 12" (30.48 cm).



S-Series 3300 Ice Cube Machine



- Quadzilla Evaporator System-places four high-output individual evaporators in a compact 48" wide icemaker for up to 3,380 lbs.(1,533) daily ice production.
- CEE Tier 2 energy and Tier 3 water efficiency rating
- Select components made with AlphaSan antimicrobial
- Patented ice harvest technology reduces energy requirements
- R404A CFC-free refrigerant
- Warranty : 5-year parts and 5-year labour coverage on ice machine evaporator,5-year parts and 3-year labour coverage on compressor,3-year parts and labour on all other componets.

Space-Saving Designs



	<i>S-3300 B-1100-00</i>	<i>S-3300 B-1400-00</i>
Height	91.00" 231.14 cm	92.50" 234.95 cm
Width	48" 121.92 cm	60.00" 152.40 cm
Depth*	34.00" 86.30 cm	34.00" 86.30 cm
Bin Storage	1,114 lbs. 505 kgs.	1,416 lbs. 642 kgs.



<http://www.diamondicesystems.com>

Manitowoc S-Series 3300

Model	Ice Shape	Ice Production 24 hours		Power Usage kWh/100 lbs. @ 90°F Air/70°F F		Water Usage / 100 lbs. / 45.4 kgs. of Ice		
		70°F Air/ 50°F Water	90°F Air/ 70°F Water	3 Ph	CEE Tier	Potable Water Usage	Potable Water CEE Tier	Water-Cooled Condenser
SD-3303W3	dice	3,320 lbs.	2,820 lbs.	3.55	2	19.7 gal.	3	166 gal.
SD-3303W3HP*		1,506 kgs.	1,279 kgs.			75 L.		628 L.
SY-3305W3	half-dice	3,380 lbs.	2,930 lbs.	3.55	2	19.7 gal.	3	132 gal.
SY-3305W3HP*		1,533 kgs.	1,329 kgs.			75 L.		500 L.

*High pressure water regulation valve model. Order ice storage bin separately.

24-HOUR PRODUCTION							
HALF-DICE CUBE				DICE CUBE			
air temp	water temp			air temp	water temp		
°F	50°	70°	90°	°F	50°	70°	90°
°C	10°	21°	32°	°C	10°	21°	32°
70°	3,380	3,050	2,640	70°	3,320	2,920	2,580
21°	1,533	1,383	1,197	21°	1,506	1,325	1,170
80°	3,300	2,970	2,560	80°	3,280	2,880	2,540
27°	1,497	1,347	1,161	27°	1,488	1,306	1,152
90°	3,260	2,930	2,520	90°	3,220	2,820	2,480
32°	1,479	1,329	1,143	32°	1,461	1,279	1,125

Ice Machine Electric

208-230/60/1 standard.

Min. circuit ampacity: 30 amps

Max. fuse size: 30 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

45,000 (average) 51,000 (peak)

Compressor:

Nominal rating: 5 HP

Operating Limits:

- Ambient Temperature Range:** 35° to 110°F (1.7° to 43.3°C)

- Water Temperature Range:** 35° to 110°F (1.7° to 32.2°C)

- Water Pressure Ice Maker Water In:**

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

- Condenser Inlet Water In:**

(Water cooled only)

Min. 20 psi (137.9 kPa)

Max. 250 psi (1,034.2 kPa)

2 Cube Sizes Available



Half Dice

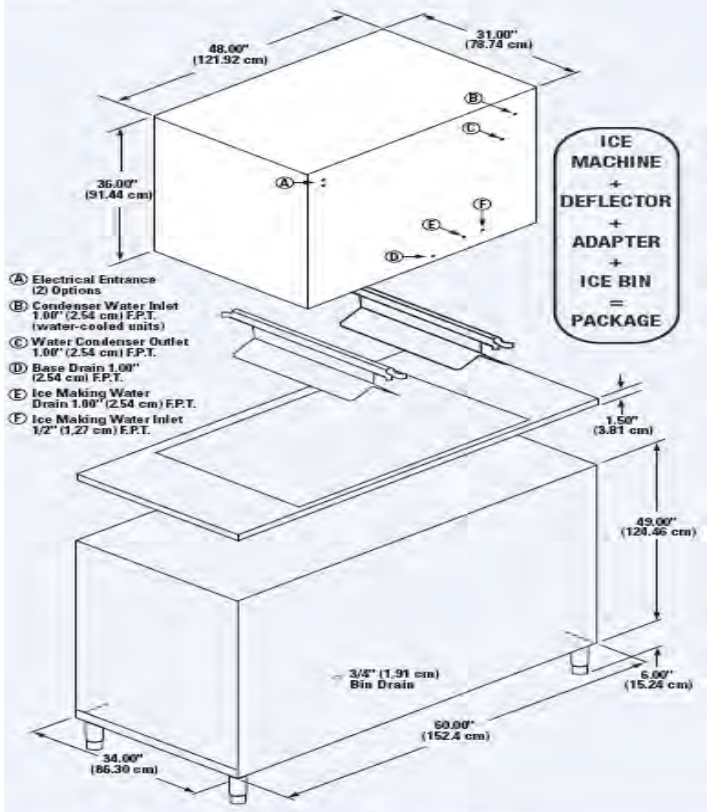
3/8" x 1 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

S-3300 on B-1400-00 Storage Bin Ice Bin & Accessories Sold Separately



Installation Note: Recommended installation clearance—
Top/sides 8" (20.3 cm), back: 24" (61 cm),
although 24" (61 cm) is recommended on all sides.



SPA-160 SFA-191 Ice Dispensers

ONLY 22" WIDE



SPA Model

- Designed for ice bucket filling in hotels, motels, and resorts
- Ice only dispense, with coin-op and room card dispensing control options
- 120 lbs (54.4 kgs) storage capacity. Accepts 22" (55.88 cm) wide, 31" (78.7 cm) deep and 75.5" (191.77 cm) high.
- Patented rocking chute dispense mechanism reduces in-flight ice and ice spillage with quick on/off activation
- Efficient built-in agitator assures 100% dispensing. Oversized drain pan collects larger quantity of ice overflow.



SFA Model

- Designed for " large " container ice filling. Accepts up to 10.5" (26.67 cm) high container
- Built-in water valve

Warranty

5-year parts and 5-year labour coverage on ice machine evaporator
5-year parts and 3-year labour coverage on ice machine compressor
3-year parts and labour coverage on all other ice machine and dispenser components

Manitowoc Ice Dispensers

SERIES 322 (115V)

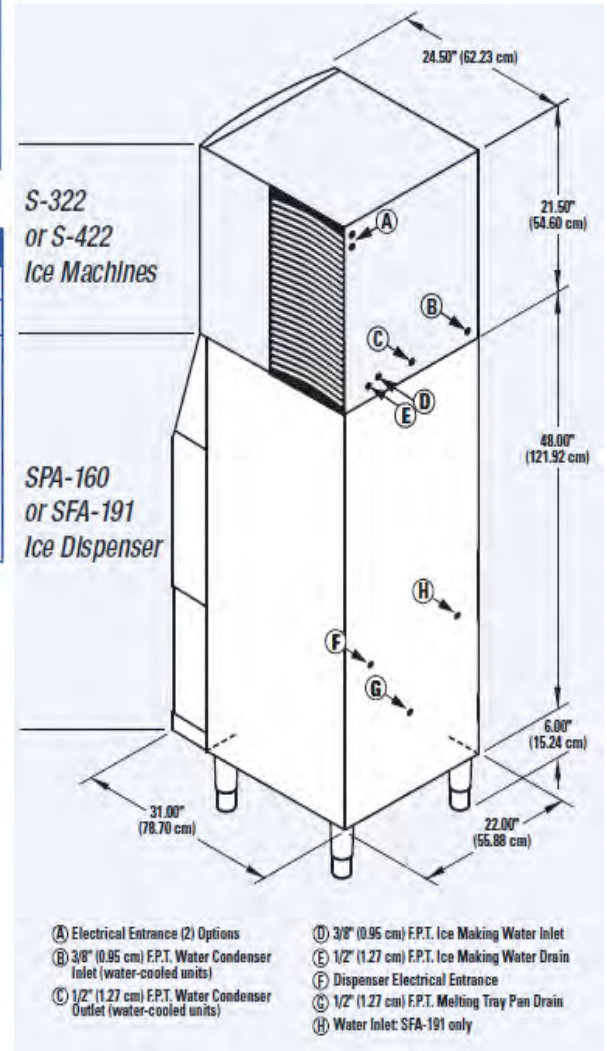
24-HOUR PRODUCTION †							lbs. kgs.
AIR-COOLED UNIT			WATER-COOLED UNIT				
air temp	water temp			air temp	water temp		
F	50°	70°	90°	F	50°	70°	90°
°C	10°	21°	32°	°C	10°	21°	32°
70°	340	320	300	70°	330	310	280
21°	154	145	136	21°	150	141	127
80°	320	290	270	80°	320	300	280
27°	145	132	122	27°	145	136	127
90°	280	250	240	90°	310	290	270
32°	127	113	108	32°	141	132	122

†Production for dice and half dice cubes. Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

SERIES 422 (115V)

24-HOUR PRODUCTION †							lbs. kgs.
AIR-COOLED UNIT			WATER-COOLED UNIT				
air temp	water temp			air temp	water temp		
F	50°	70°	90°	F	50°	70°	90°
°C	10°	21°	32°	°C	10°	21°	32°
70°	450	420	390	70°	470	440	400
21°	204	191	177	21°	213	200	181
80°	430	400	370	80°	460	430	390
27°	195	181	168	27°	209	195	177
90°	410	380	350	90°	450	420	380
32°	186	173	159	32°	204	191	172

†Production for dice and half dice cubes. Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.



Note: Dispenser will accept single 22" wide ice machine

Dispenser Electrics : 115/60/1 and 230/50/1

Maximum Circuit Fuse Size : 15 amps

Dispenser Electrical Connections : 6' power cord, rated 125 VAC, 16-3 conductors with standard 3-prong, straight-blade, ground-type plug NEMA configuration 5-15P

Motor : 1.6 amps maximum, permanently lubricated

Service Access : Dispenser door removes easily to access components

Installation Note : Dispensers have no minimum clearance, when installing an ice machine/dispenser combination follow the requirements for the ice machine being installed.

2 Cube Sizes Available



Half Dice
3/8" x 1 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)





Manitowoc

SPA-310 SFA-291 Ice Dispensers



S-Series 450 Ice Machine
SPA-310 Ice Dispenser

- Designed for ice bucket filling in hotels, motels, and resorts
- Ice only dispense, with coin-op and room card dispensing control options
- 180 lbs (82 kgs) storage capacity. Accepts 22" (55.88 cm) or 30" (76.2) wide Manitowoc Ice Machine
- Patented rocking chute dispense mechanism reduces in-flight ice and ice spillage with quick on/off activation
- Efficient built-in agitator assures 100% dispensing. Oversized drain pan collects larger quantity of ice overflow.



S-Series 450 Ice Machine
SPA-291 Ice & Water Dispenser

- Designed for " large " container ice filling. Accepts up to 10.5" (26.67 cm) high container
- Built-in water valve

Warranty

5-year parts and 5-year labour coverage on ice machine evaporator
5-year parts and 3-year labour coverage on ice machine compressor
3-year parts and labour coverage on all other ice machine and dispenser components

Manitowoc Ice Dispensers

SERIES 300 (115V)

24-HOUR PRODUCTION †								lbs. kgs.
AIR-COOLED UNIT				WATER-COOLED UNIT				
air temp	water temp			air temp	water temp			
°F	50°	70°	90°	°F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	
70°	325	295	270	70°	310	285	260	
21°	147	134	122	21°	143	129	118	
80°	305	275	250	80°	305	280	255	
27°	138	125	113	27°	138	137	116	
90°	285	255	235	90°	295	270	250	
32°	129	116	107	32°	134	122	113	

†Production for Dice and Half Dice cubes. Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

SERIES 450 (115V)

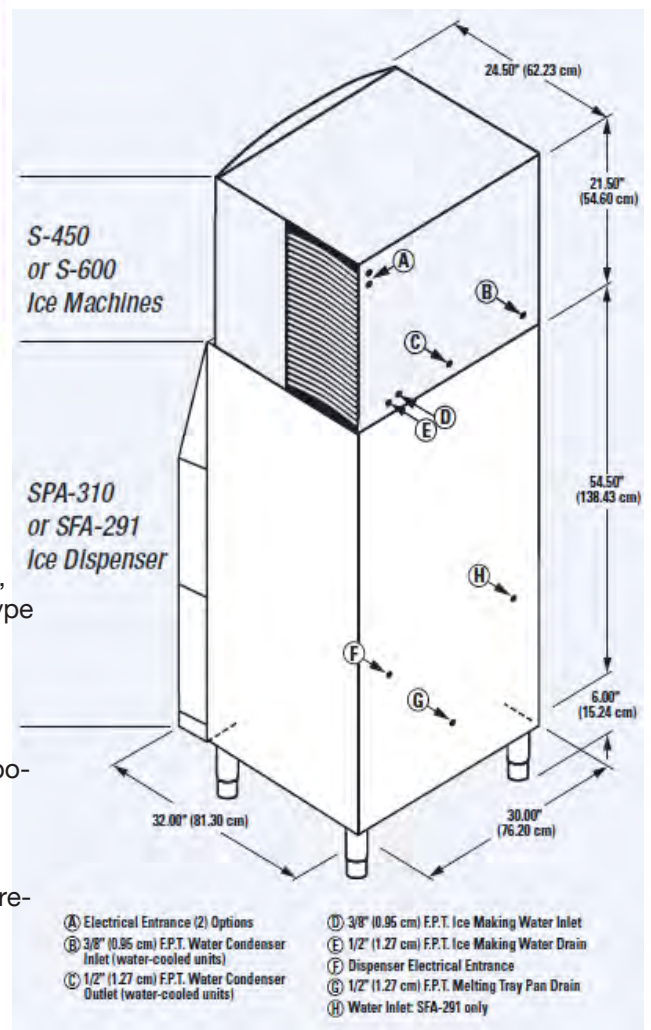
24-HOUR PRODUCTION †								lbs. kgs.
AIR-COOLED UNIT				WATER-COOLED UNIT				
air temp	water temp			air temp	water temp			
°F	50°	70°	90°	°F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	
70°	450	420	390	70°	470	440	400	
21°	204	191	177	21°	213	200	181	
80°	430	400	370	80°	460	430	390	
27°	195	181	168	27°	209	195	177	
90°	410	380	350	90°	450	420	380	
32°	186	173	159	32°	204	191	172	

†Production for Dice and Half Dice cubes. Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.

SERIES 600 (208-230V)

24-HOUR PRODUCTION †								lbs. kgs.
AIR-COOLED UNIT			WATER-COOLED UNIT			REMOTE AIR-COOLED UNIT		
air temp	water temp		air temp	water temp		air temp	water temp	
°F	50°	70°	90°	°F	50°	70°	90°	
°C	10°	21°	32°	°C	10°	21°	32°	
70°	650	600	560	70°	650	630	590	-20° to 70°
21°	295	272	254	21°	295	286	268	-29° to 21°
80°	640	580	550	80°	640	620	580	90°
27°	290	263	249	27°	290	281	263	32°
90°	590	540	510	90°	630	610	580	100°
32°	268	245	231	32°	286	277	263	38°

†Production for Dice and Half Dice cubes. Data is published for 60 Hz machines. 50 Hz machines produce approximately 7% less ice.



Dispenser Electrics : 115/60/1 and 230/50/1

Maximum Circuit Fuse Size : 15 amps

Dispenser Electrical Connections : 6' power cord, rated 125 VAC, 16-3 conductors with standard 3-prong, straight-blade, ground-type plug NEMA configuration 5-15P

Motor : 1.6 amps maximum, permanently lubricated

Service Access : Dispenser door removes easily to access components

Installation Note : Dispensers have no minimum clearance, when installing an ice machine/dispenser combination follow the requirements for the ice machine being installed.



Manitowoc

Ice Storage Bins

Ice Storage

B-Style

Model	Weight (lbs.)	Weight (kgs.)	Height (in.)	Front Width (in.)	Depth (in.)
B-170	150	68	25.00	29.50	30.00
B-320	210	95	38.00	34.00	22.00
B-400	290	132	38.00	34.00	30.00
B-420	310	141	50.00	34.00	22.00
B-570	430	195	50.00	34.00	30.00
B-970	710	323	50.00	34.00	48.00

.75" (1.90 cm) Bin drain

C-Style

Model	Weight (lbs.)	Weight (kgs.)	Height (in.)	Front Width (in.)	Depth (in.)
C-730	560	254	46.00	31.50	42.00

.75" (1.90 cm) Bin drain

Manitowoc Ice Storage Bins

B-STYLE																					
Bin Model	Capacity Lbs. Kgs.	Fits S-Series Ice Cube Machine Indicated												Dimensions							
		300	325	422	450	500	600	850	1000	1200	1400	1470C	1800	1870C	2170C	Height	Width	Depth			
B-170	750 339	•	•	•	•	•									26"	63.51 cm	30"	76.20 cm	29.50"	74.93 cm	
B-200	210 95	•	•												38"	96.52 cm	22"	55.88 cm	34"	86.36 cm	
B-400	330 132	•	•	•	•	•	•	•	•	•					38"	96.52 cm	30"	76.20 cm	34"	86.36 cm	
B-420	210 95	•	•												30"	76.20 cm	22"	55.88 cm	34"	86.36 cm	
B-570	430 195	•	•	•	•	•	•	•	•	•					50"	127 cm	30"	76.20 cm	34"	86.36 cm	
B-900	710 323	1				1	1	2	2	2	2	•	•	•	4	•	•	•	•	•	•

Soft durometer trim around opening helps silence bin door closing. Convenient stay-open design keeps bin door out of the way while scooping ice. Internal scoop holder stays above ice line for easy access and better sanitation. DuraTech™ stainless finish exterior is durable, corrosion resistant and attractive.

- 1 K-00360 adaptor required
- 2 K-00370 adaptor required
- 3 K-00365 adaptor required
- 4 K-00365 adaptor required

One set of legs included. Adjustable from 6.00" to 7.75" (15.24 to 19.65 cm). Included with bin. Storage capacity is based on 80% of total volume x 30 lb/ft³ average density of ice.



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C-STYLE																		
Bin Model	Capacity Lbs. Kgs.	Fits Ice Machine Series Indicated										Dimensions						
		S222 S422	S300 S450 S600	S600 S850 S1000	S1400 S1600 S1800	S1470C S1870C S2170C	SF400 SF600 SF900	SN450 SN650 SN950	SF1200 SF2000	SN1250 SN2050	Height	Width	Depth					
C-730S	560 254	6	5	5		7					5	5	48"	116.84 cm	47"	109.69 cm	21.50"	54.61 cm

DuraTech™ stainless finish exterior is durable, corrosion-resistant and attractive. Bin door, although rectangular, is gray ABS to match S-Series ice machine trim color. C-Style bin does not include scoop holder, bin door design, or rounded corner enhancements included with S-Style or B-Style design. Bin leg is built design, adjustable from 6.00" to 7.75" (15.24 cm to 19.685 cm) and painted black. Bin liner is one-piece (seamless) "rotocast" polyethylene. Liner won't rust, dent, chip, crack or discolor.

- 6 C-730 includes K-00372 adaptor to mount 30" ice machine.
 - 7 K-00317 adaptor required.
 - 8 K-00365 adaptor required.
- Gray painted 6.00" (15.24 cm) built leg included, adjustable from 6.00" to 7.75" (15.24 to 19.685 cm). Storage capacity is based on 80% of total volume x 30 lb/ft³ average density of ice.



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B-STYLE LARGE CAPACITY																				
Bin Model	Capacity Lbs. Kgs.	Fits S-Series Ice Cube Machine Indicated												Dimensions						
		450	500	600	850	1000	1200	1400	1470C	1800	1870C	2170C	3300	Height	Width	Depth				
B-750	745 338	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B-1100	1,114 505	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B-1400	1,416 642	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Manitowoc B-Style, large capacity ice storage bins are equipped with an ice gate for increased employee safety, easier ice removal, and reduced spillage. Stainless steel exterior is durable, corrosion resistant and attractive.

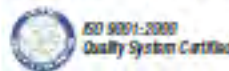
Choose a B-750 small footprint, large capacity ice storage bin or a 48" wide B-1100 with 1,114 lbs. of ice storage capacity or the 60" wide model B-1400 with 1,416 lbs. of ice storage capacity. (B-1100; specify for use with 1-30" wide or 1-48" wide ice machine and B-1400 specify for use with 1-30" wide, 2-30" wide or 1-48" wide ice machine at time of purchase).

Bin Leg Options
4" (10.16 cm), 6" (15.24 cm) and 12" (30.48 cm) adjustable legs in painted and stainless steel and 2.5" (6.35 cm), and 7.625" (19.37 cm) casters available for most models. Contact factory for model number and order information.

Warranty
Provides comprehensive, 3-year parts-and-labor coverage. For details, see Ice Storage Bin Warranty Statement. B-750, B-1100 and B-1400 provide a limited lifetime warranty on base, bin liner, and poly snout.

ICE MACHINE DEFLECTORS REQUIRED	
S-Series 450, 500, 600, 850, 1000, 1200	K-002547
S-Series 1400, 1600, 1800	K-002548
1470C, 1870C, 2170C	K-002383 for side by side ice machines K-002382 for one ice machine
3070C, 3300	K-002381

Stainless steel 6.00" (15.24 cm) legs included, adjustable from 6.00" to 7.50" (15.24 to 19.05 cm). Storage capacity is based on 80% of total volume x 30 lb/ft³ average density of ice.



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Ice Storage Bins

F-Style Large Capacity Ice Storage Bins

Manitowoc F-Style large capacity ice storage bins are equipped with a sliding ice grate for increased employee safety, easier ice removal, and reduced spillage. Choose a bin width from 30", 48", or 60" with relative ice storage capacities of 680 lbs, 1320 lbs, or up to 1660 lbs.

Sliding Ice Grate

- Controls ice flow into snout for easy removal with either scoop or shovel
- Returns easily to full down position

Durable Polyethylene Lift Door

- Ball catch hinge-holds bin door open when scooping ice
- Eliminates sharp corners and gaskets
- Provides outstanding durability
- Offers maximum access for fast, easy ice removal

Quality Construction

- Heavy-duty welded construction
- Non-CFC foamed-in place insulation
- Impact-resistant sliding windows for easy bin inspection

-

Warranty

3-year parts and labour coverage
on bin and accessories
2-year parts and labour on carts

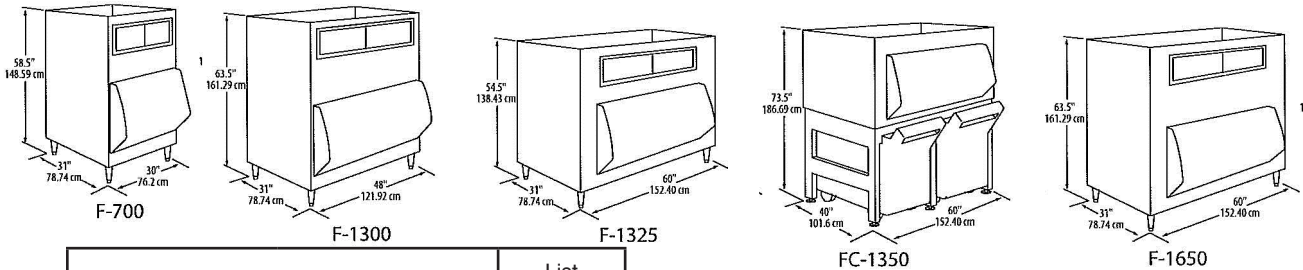


Ice Storage Bins

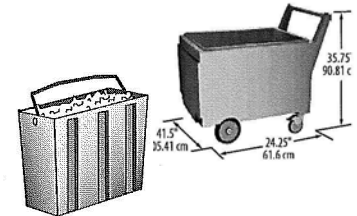
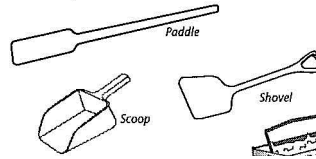


Manitowoc

F-Style Large Capacity Ice Storage Bins



Ice Machine Accessories		List Price
K-00412	Paddle 46.5"	140.00
K-00413	82 oz Scoop	28.00
K-00414	Shovel 36"	140.00
K-00416	Totes 25 lb cap	878.00



Bin	Capacity		List Price	# Ice Makers	Fits S - Series Ice Cube Machine Indicated									
	Lbs	Kgs			300	450	500	600	850 1000 1200	680C 800C 1000C 1200C	1470C 1870C 2170C	1400 1600 1800	Q-1800 stack able	RF-0300 RF-0650 RF-1200	S-3070C S-3300
F-700	680	308	4035.00	1	K-303000 Single Head Adapter (included with bin)						n/a	n/a	K-302500	n/a
F-1300	1320	599	5088.00	1	K-483048 Single Head Adapter (included with bin)						n/a	n/a	K-482500	Adapter not required
F-1325	1325	601	5545.00	1	K-603048 Single Head Adapter (included with bin)						n/a	n/a	K-602500	K-604800
				2*	K-603030 Side by Side 30" Head Adapter						n/a	n/a	n/a	n/a
F-1650	1660	753	5925.00	1	K-603048 Single Head Adapter (included with bin)						n/a	n/a	K-602500	K-604800
				2*	K-603030 Side by Side 30" Head Adapter						n/a	n/a	n/a	n/a
FC-1350	1350	612	15782.00	1	K-613048 Single Head Adapter (included with bin)						n/a	n/a	K-612500	K-614800
				2*	K-613030 Side by Side 30" Head Adapter						n/a	n/a	n/a	n/a

* Only for use with water-cooled and remote ice machines. Check ice machine clearance requirements

Ice Machine Adapters	List Price
K-303000	411.00
K-302500	701.00
K-483048	751.00
K-482500	654.00
K-603048	871.00
K-602500	871.00
K-604800	984.00

Ice Machine Deflectors Required	
S-Series 450,500, 600,850,1000,1200	K-00347
S-Series 1400, 1600,1800	K-00349
1470c ,1870c , 2170c	K-00383 for side by side ice machines K-00382 for one machine
3070c ,3300	K-00391



Vertical Discharge Remote Condenser

For S-Series Ice Cube Machines

Remote Series



JC-0895
Remote Condenser

Remote, air-cooled condenser system improves efficiency and ice production, conserving energy.

Manitowoc remote condenser systems effectively dissipate heat at a convenient location, indoors or outdoors, away from the ice machine. This maximizes ice-making capability and minimizes air conditioning loads by lowering the ambient air temperature at the ice machine.

- Vertical discharge remote condenser is available for S-Series 500, 600, 850, 1000, 1400 and 1800 ice machines. Refer to ice machine specification sheet for equipment dimensions, production capacities, electrical requirements, and ice storage bin compatibility.
- Condenser operation range from -20°F (-29°C) to 120°F (49°C). Can be installed with up to 15" (38.1 cm) of bottom clearance.
- Remote system consists of a remote condenser and interconnecting refrigerant

lines. All components are pre-charged with environmentally responsible refrigerant and have quick-connect fittings for convenient installation. Order ice cube machine, ice storage bin and line set separately.

- Warranty 3-year parts and labor. See warranty statement for complete details.

Single S-Series Ice Machine	Remote Condenser
S-500	JC-0495
S-600, 850 or 1000	JC-0895
S-1400 or 1800	JC-1395

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<http://www.diamondicesystems.com>

Manitowoc Remote Condenser

Installation Information and Dimensions

Maximum Location Distance—combined vertical and horizontal distances from ice machine to condenser must comply with guidelines.

Maximum Line Length: 100' (30 m)*

Maximum Vertical Rise: 35' (10.5 m) above ice machine.

Maximum Vertical Drop: 15' (4.5 m) below ice machine.

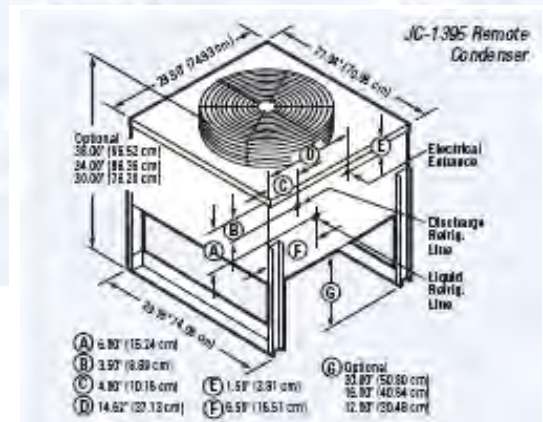
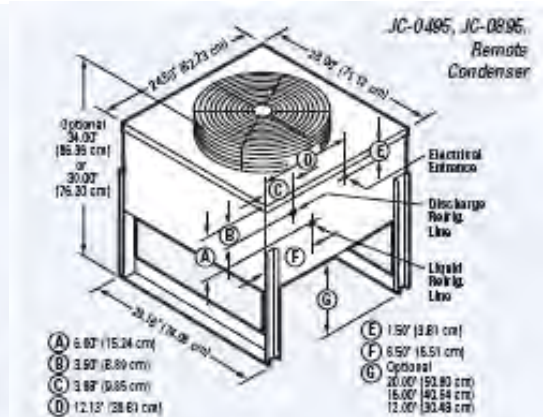
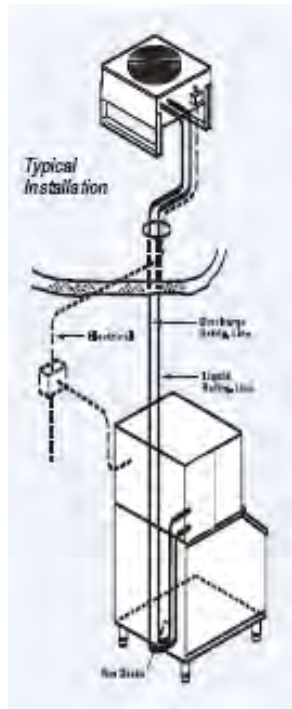
To calculate other acceptable horizontal and vertical combinations, refer to remote condenser installation instructions.

*Remote condenser has refrigerant charge for up to 50' (15 m) line length. Over 50' (15 m) requires additional refrigerant charge at time of installation for Series 1400, and 1800 ice machines.

Remote S-Series Ice Machine

S-Model	Electrical Service*	Minimum Circuit Ampacity	Maximum Fuse size
500	115/60/1	1.3	20
600	208-230/60/1	1.3	25
650	208-230/60/1	1.3	20
1000	208-230/60/1	1.3	30
1400	208-230/60/1	1.3	30
1800	208-230/60/1	1.3	40

*230/50/1 available. Consult factory. HACR circuit breakers can be used in place of fuses.



Electric

Electrical power to the remote condenser is however, if necessary, a separate electrical intended to be supplied from the ice machine; power source can be used.

S-Series Remote Condenser

Condenser S-Model	Matching Ice Machine	CONDENSER		Weight	
		Electrical Service*	Ampereage	lbs.	kgs.
JC-0495	500	115/60/1	2.3	76	34
JC-0895	600, 650, 1000	208-230/60/1	1.3	85	39
JC-1395	1400, 1800	208-230/60/1	1.3	96	44

*230/50/1 available. Consult factory. HACR circuit breakers can be used in place of fuses.

Standard Interconnecting Refrigerant Lines

Model	Line Length		Weight	
	ft.	cm.	lbs.	kgs.
R(*)-20-R-404A	20	609	11	5
R(*)-35-R-404A	35	1,067	17	8
R(*)-50-R-404A	50	1,524	24	11

R() prefix for Series 600, 600, 650 and 1000. R(*) prefix for Series 1400 and 1800. Data subject to change.





Ice/Beverage Series 600C Remote Ice Cube Machine

With Patented CVD Technology®



An Ice Machine Designed Specifically for Beverage Dispensers

Ice/Beverage Series IB-600C ice machine - 115V
 Servend SV-175 beverage dispenser
 An "NSF Listed" Ice/Beverage Dispenser Combination



CVD Condensing Unit - 208-230V

- Narrow, small footprint enhances cleanability; allows for improved sanitation procedures for the ice storage area and beverage valves. Will not obstruct sight lines. Also allows for convenient manual loading of ice in dispenser to satisfy peak ice usage
- Can be installed or retrofitted to virtually any commercial beverage dispenser
- Only 14" (35.56 cm) deep, 22" (55.88 cm) wide, and 24" (60.96 cm) high
- Up to 635 lbs. (288 kgs.) daily ice production
- CEE Tier 1 energy and water efficiency rating
- Quiet operation eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
- Stainless steel exterior with fit and finish of an appliance enhances any self-serve environment
- Patented built-in cleaning and sanitizing technology
- Ice machine is lighter in weight. 115 volt simplifies installation and maintenance
- CVD technology improves reliability and extends life of the compressor
- Ice/Beverage ice machines do not have stack-on capability
- Ice/Beverage QuietQube® series remote system consists of an ice machine head section, a CVD remote condensing unit, interconnecting refrigerant lines and a dispenser adapter. All ordered separately. Ice/Beverage QuietQube ice cube machine with CVD condensing unit is designed as a Manitowoc system and not for use with any other ice machine or remote condenser brand
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine components



America's #1 Selling Ice Machine
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Manitowoc Ice/Beverage IB-600C Remote Series

REMOTE AIR-COOLED ICE MACHINE

Model	Cube size	Ice production 24 hours		Power*	
		lbs.	kgs.	kWh/100 lbs.	kWh/100 lbs.
IB-0622DC	dice	570	259	6.5 /ph	6.5 /ph
IB-0624YC	half-dice	570	259	6.5 /ph	6.5 /ph

Water usage/100 lbs./45.4 kgs. of ice • Potable Water: 26.4 gallons, 100 liters

Ice machine for use with ice dispenser, CVD condensing unit and dispenser adapter. All ordered separately.
 *kWh per 100 lbs. is total power of ice machine and condensing unit. Ice machine is 1 ph only.
 Condensing unit is 1 ph or 3 ph.

 Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810

Ice Machine Electric

115/60/1 standard. (208-230/60/1 and 230/50/1 also available, consult factory.) 115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P plug configuration. 208-230/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord only, no plug is supplied.

Total amps: 1.1

Max. fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

12,400 (average) 19,500 (peak)

Compressor:

Nominal rating: 1.5 HP

Operating Limits:

• Ambient Temperature Range:

-20° to 130°F (-29° to 54°C)

• Water Temperature Range:

33° to 90°F (0.6° to 32.2°C)

• Water Pressure Ice Maker Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)


Refrigerant R-404A


Note: IB models are designed for use with an Ice/Beverage dispenser. Adapter required to mount ice machine to dispenser. Ordered separately. For attachment to ice storage bin, contact factory.

24-HOUR PRODUCTION † (lbs., kgs.)			
REMOTE AIR-COOLED UNIT			
air temp	water temp		
°F	50°	70°	90°
°C	10°	21°	32°
-20° to 70°	635	575	540
-29° to 21°	288	261	245
90°	625	570	530
92°	284	259	241
100°	585	525	490
39°	266	238	223

† Production for Dice and Half Dice cubes.

2 Cube Sizes Available

 Half Dice
 $\frac{3}{8}'' \times \frac{1}{2}'' \times \frac{1}{8}''$
 (.95 x 2.86 x 2.22 cm)

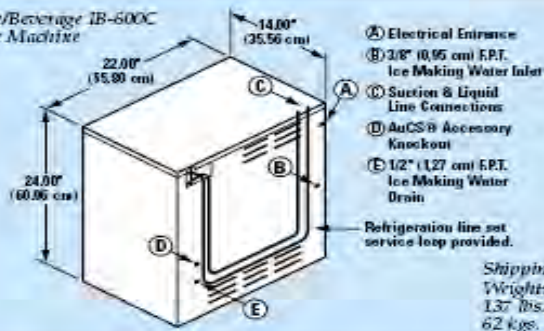
 Dice
 $\frac{1}{2}'' \times \frac{1}{4}'' \times \frac{1}{8}''$
 (2.22 x 2.22 x 2.22 cm)

AuCS® Accessory

 AuCS®
 Automatic
 Cleaning System



Ice/Beverage IB-600C Ice Machine



CVD 0675 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (30.5 m).*

Maximum Vertical Rise*—35' (10.7 m) above ice machine.

Maximum Vertical Drop—15' (4.5 m) below ice machine.

*A rise over 20' (6 m) requires S-Trap Kit K-00172 - ordered separately.



Condensing Unit Electric

208-230/60/1 standard. 208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard, IEC335-1, requirements for "tropical rating," the most severe duty rating an ice machine can obtain, (consult factory). HACR-type circuit breakers can be used in place of fuses.

Note: QuietCube ice machine is 115/60/1 and wired independent of CVD condensing unit.

Min. circuit ampacity: 9.6 1ph, 7.3 3ph

Max. fuse size: 15 amps 1ph, 15 amps 3ph

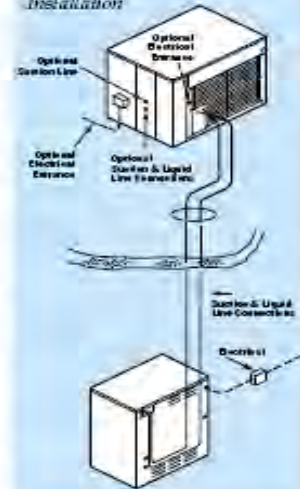
HACR-type circuit breakers can be used in place of fuses.

Standard Interconnecting Tubing

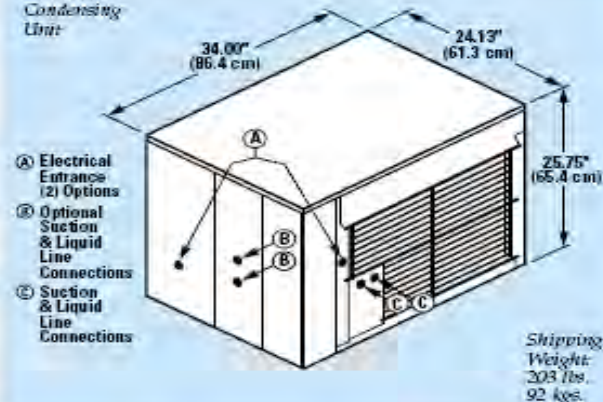
Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-21	20	6	10	5
RC-31	30	9	15	7
RC-51	50	15	25	12



Typical Installation



CVD-0675 Condensing Unit



THE RIGHT CLIMATE FOR LEADERSHIP

Consult your local Manitowoc Representative:

Manitowoc Ice, Inc.
 2110 South 26th Street, P.O. Box 1720 • Manitowoc, WI 54221-1720, USA
 Ph: 920-682-0161 • Fax: 920-683-7589
www.manitowocice.com

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Continuing product improvement may result in change of specifications without notice.





Ice/Beverage Series 800C Remote Ice Cube Machine

With Patented CVD Technology®



Ice/Beverage Series IB-800C ice machine
 Servend SV-175 beverage dispenser
 An "NSF Listed" Ice/Beverage Dispenser Combination



CVD Condensing Unit - 208-230V

- Narrow, small footprint enhances cleanability; allows for improved sanitation procedures for the ice storage area and beverage valves. Will not obstruct sight lines. Also allows for convenient manual loading of ice in dispenser to satisfy peak ice usage
- Can be installed or retrofitted to virtually any commercial beverage dispenser
- Only 14" (35.56 cm) deep, 22" (55.88 cm) wide, and 26.5" (67.03 cm) high
- Up to 795 lbs. (361 kgs.) daily ice production
- CEE Tier 1 energy and water efficiency rating
- Quiet operation eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
- Stainless steel exterior with fit and finish of an appliance enhances any self-serve environment
- Patented built-in cleaning and sanitizing technology
- Ice machine is lighter in weight. 115 volt simplifies installation and maintenance
- CVD technology improves reliability and extends life of the compressor
- Ice/Beverage ice machines do not have stack-on capability
- Ice/Beverage QuietQube® series remote system consists of an ice machine head section, a CVD remote condensing unit, interconnecting refrigerant lines and a dispenser adapter. All ordered separately. Ice/Beverage QuietQube ice cube machine with CVD condensing unit is designed as a Manitowoc system and not for use with any other ice machine or remote condenser brand
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine components



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Manitowoc Ice/Beverage IB-800C Remote Series

REMOTE AIR-COOLED ICE MACHINE

Model	Cube size	Ice production 24 hours		Power*	
		lbs.	kgs.	kWh/100 lbs.	
IB-08220C	dice	690	309	6.6 1ph	6.8 3ph
IB-08240C	half-dice	690	309	6.6 1ph	6.8 3ph

Water usage/100 lbs./45.4 kgs. of ice = Potable Water: 26.4 gallons, 100 liters

Ice machine for use with low dispersion, CVD condensing unit and dispenser adapter. All colored separately. kWh per 100 lbs. is total power of ice machine and condensing unit. Ice machine is 1 ph only. Condensing unit is 1 ph or 3 ph.

 Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810

Ice Machine Electric

115/60/1 standard. (208-230/60/1 and 230/50/1 also available, consult factory.)

Total amps: 1.1

Max. fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

Operating Limits:

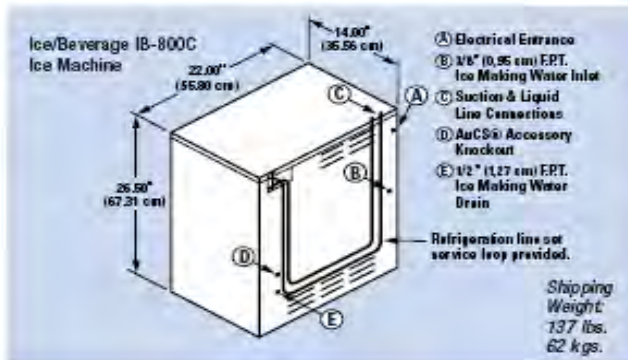
- Ambient Temperature Range: 35° to 110°F (1.6° to 43.4°C)
- Water Temperature Range: 33° to 90°F (0.6° to 32.2°C)
- Water Pressure Ice Maker Water In: Min. 20 psi (137.9 kPa) Max. 80 psi (551.1 kPa)
- Refrigerant: R-404A



Note: IB models are designed for use with an Ice/Beverage dispenser. Adapter required. Ordered separately. For attachment to ice storage bin, contact factory.

24-HOUR PRODUCTION †				ICE SIZE
REMOTE AIR-COOLED UNIT				
air temp	water temp			
°F	50°	70°	90°	
°C	10°	21°	32°	
-20° to 70°	760	690	640	
-29° to 21°	345	314	291	
90°	750	680	640	
32°	341	309	291	
100°	700	650	610	
38°	318	295	277	

† Production for Dice and Half Dice sizes.



CVD 0875 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

- Maximum Line Length—100' (30.5 m)*
- Maximum Vertical Rise—35' (10.7 m) above ice machine.
- Maximum Vertical Drop—15' (4.5 m) below ice machine.
- *A rise over 20' (6 m) requires S-Trap Kit K-00172 - ordered separately.



Condensing Unit Electric

208-230/60/1 standard. 208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard, IEC335-1, requirements for "tropical rating," the most severe duty rating an ice machine can obtain. (consult factory). HACR-type circuit breakers can be used in place of fuses. Note: QuietCube ice machine is wired independent of CVD condensing unit.

Min. circuit ampacity: 11.7 1ph
9.2 3ph

Max. fuse size: 20 amps 1ph
15 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

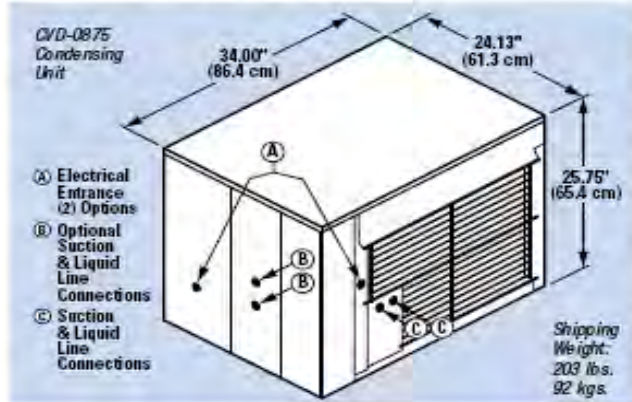
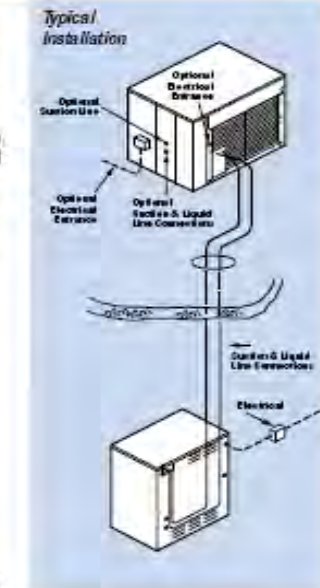
BTU Per Hour:
12,400 (average) 19,500 (peak)

Compressor:
Nominal rating: 1-1/2 HP

Operating Limits:
• Ambient Temperature Range:
-20° to 130°F (-29° to 54°C)

Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-21	20	6	10	5
RC-31	30	9	15	7
RC-51	50	15	25	12



MANITOWOC ICE, INC.
2111 South 23rd Street, P.O. Box 1720
Milwaukee, WI 53221-1720, USA
PH: 414-622-1700 • FAX: 414-622-7800
2008 10 online at www.manitowocice.com





Ice/Beverage Series 1000C Remote Ice Cube Machine

With Patented CVD Technology®



Ice/Beverage Series IB-1000C ice machine
Servend SV-175 beverage dispenser
An "NSF Listed" Ice/Beverage Dispenser Combination



CVD Condensing Unit - 208-230V

- Narrow, small footprint enhances cleanability; allows for improved sanitation procedures for the ice storage area and beverage valves. Will not obstruct sight lines. Also allows for convenient manual loading of ice in dispenser to satisfy peak ice usage
- Can be installed or retrofitted to virtually any commercial beverage
- Only 14" (35.56 cm) deep, 22" (55.88 cm) wide, and 26.5" (67.03 cm) high
- Up to 1000 lbs. (454 kgs.) daily ice production
- CEE Tier 1 energy and water efficiency rating
- Quiet operation eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
- Stainless steel exterior with fit and finish of an appliance enhances any self-serve environment
- Patented built-in cleaning and sanitizing technology
- Ice machine is lighter in weight. 115 volt simplifies installation and maintenance
- CVD technology improves reliability and extends life of the compressor
- Ice/Beverage ice machines do not have stack-on capability
- Ice/Beverage QuietQube® series remote system consists of an ice machine head section, a CVD remote condensing unit, interconnecting refrigerant lines and a dispenser adapter. All ordered separately. Ice/Beverage QuietQube ice cube machine with CVD condensing unit is designed as a Manitowoc system and not for use with any other ice machine or remote condenser brand
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine components



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Manitowoc Ice/Beverage IB-1000C Remote Series

REMOTE AIR-COOLED ICE MACHINE

Model	Cube size	Ice production 24 hours		Power*	
		lbs.	kgs.	KWh/100 lbs.	
IB-10220C	dice	900	409	6.3 1ph	6.2 3ph
IB-1024YC	half-dice	900	409	6.3 1ph	6.2 3ph

Water usage/100 lbs. 45.4 kgs. of ice = Potable Water: 20.4 gallons, 77 liters

*For machines for use with ice dispenser, CVD condensing unit and dispenser adapter. All contents separately.
 *KWh per 100 lbs. is total power of ice machine and condensing unit. Ice machine is 1 phase.
 Condensing unit is 1 ph or 3 ph.



Certified in accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 510

Ice Machine Electric

115/60/1 standard. (208-230/60/1 and 230/50/1 also available)
 115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P plug configuration. 208-230/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord only, no plug is supplied.

Total amps: 1.1

Max. fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

Operating Limits:

- Ambient Temperature Range: 40° to 110°F (4.4° to 43.3°C)
- Water Temperature Range: 40° to 90°F (4.4° to 32.2°C)
- Water Pressure Ice Maker Water In: Min. 20 psi (137.9 kPa) Max. 80 psi (551.1 kPa)
- Refrigerant: R-404A



24-HOUR PRODUCTION + lbs., kgs.		
REMOTE AIR-COOLED UNIT		
air temp	water temp	
°F	50°	70°
°C	10°	21°
-20° to 70°	980	910
-29° to 21°	445	413
90°	960	900
32°	436	409
100°	920	860
38°	418	390

*Attachment for Dice and Half Dice cubes.



AuCS® Accessory

AuCS® Automatic Cleaning System

2 Cube Sizes Available



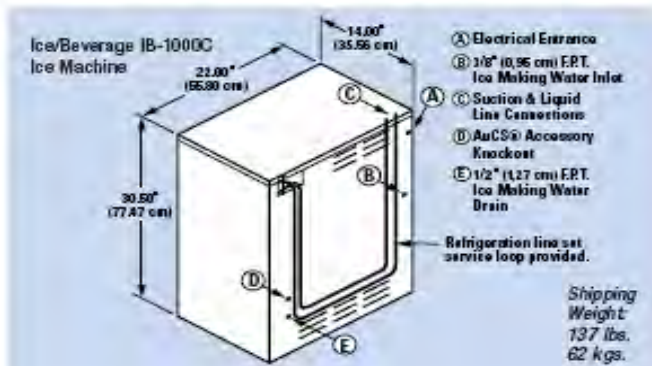
Half Dice
 3/4" x 1 1/4" x 7/8"
 (95 x 2.88 x 2.22 cm)



Dice
 7/8" x 7/8" x 7/8"
 (2.22 x 2.22 x 2.22 cm)



Note: IB models are designed for use with an Ice/Beverage dispenser. Adapter required. Ordered separately. For attachment to ice storage bin, contact factory.



CVD 1075 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (3,000 cm).*

Maximum Vertical Rise—35' (1,050 cm) above ice machine.

Maximum Vertical Drop—15' (450 cm) below ice machine.

*A rise over 20' (600 cm) requires S-Trap Kit K-00166 - ordered separately.



Condensing Unit Electric

208-230/60/1 standard.

208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard IEC335-1, requirements for "typical rating," the most severe duty rating an ice machine can obtain. (consult factory). HACR-type circuit breakers can be used in place of fuses. Note: QuietCube ice machine is wired independent of CVD condensing unit.

Min. circuit ampacity: 15.6 1ph
 10.3 3ph

Max. fuse size: 25 amps 1ph
 20 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

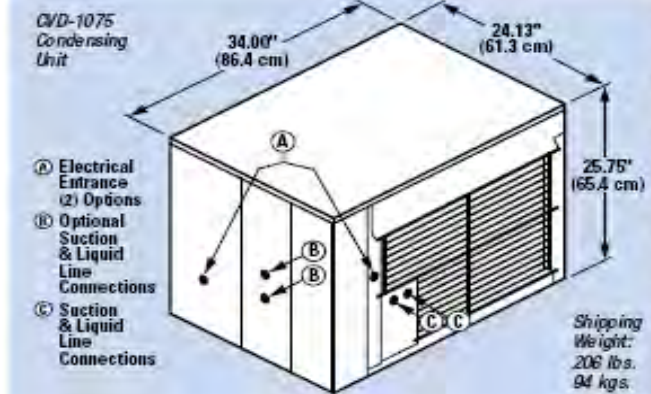
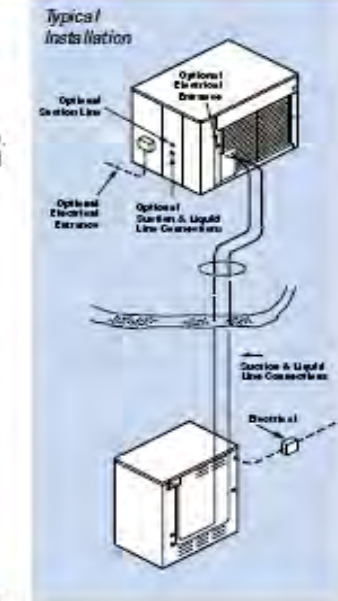
BTU Per Hour: 16,000 (average) 24,700 (peak)

Compressor: Nominal rating: 1-3/4 HP

Operating Limits:
 • Ambient Temperature Range: -20° to 130°F (-29° to 54°C)

Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-20	20	6	12	5
RC-30	30	9	20	9
RC-50	50	15	28	13



MANITOWOC INC. INC.
 2710 South 28th Street, P.O. Box 1720
 Manitowoc, WI 54221-1720, USA
 Tel: 920-682-0161 Fax: 920-683-7866
 Visit us online at www.manitowoc.com





QuiteQube S1000C Remote Ice Cube Machine

With Patented CVD Technology®



Series 1000C Ice Cube Machine - 115V



CVD Condensing Unit - 230V



- Quiet Qube Series Remote Systems consists of a remote condensing unit, ice machine head section, ice deflector and ice storage unit. All ordered separately.
- 30" (76.2 cm) wide, and 26.5" (67.03 cm) high
- Up to 970 lbs. (440 kgs.) daily ice production
- CEE Tier 1 energy and water efficiency rating
- Quiet operation eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
- Stainless steel exterior with fit and finish of an appliance enhances any self-serve environment
- Patented built-in cleaning and sanitizing technology
- Ice machine is lighter in weight. 115 volt simplifies installation and maintenance
- CVD technology improves reliability and extends life of the compressor
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine components

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Manitowoc QuietQube® Series-1000C Remote

REMOTE AIR-COOLED ICE MACHINE

Model	Cube size	Ice production 24 hours		Power*	
		lbs.	kgs.	kWh/100 lbs.	
SD-1072C	dice	850	386	5.5 1/2h	5.3 3/2h
SY-1074C	half-dice	850	386	5.5 1/2h	5.3 3/2h

Water usage/100 lbs./45.4 kgs. of ice • Potable Water: 18 gallons, 68 liters

*1/2 hp for unit with refrigerant direct ice separator and CVD condensing unit. All values represent typical values for 100 lbs. of ice production for machines with condensing unit located in 1 ft. only. Condensing unit is 1 ft. (30.5 cm).



Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810

Ice Machine Electric

115/60/1 standard. (230/50/1 also available, consult factory)

Total Amps: 2.5

Max. fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

Operating Limits:

- Ambient Temperature Range: 40° to 110°F (4.4° to 43.3°C)
- Water Temperature Range: 40° to 90°F (4.4° to 32.2°C)
- Water Pressure Ice Maker Water In: Min. 20 psi (137.9 kPa) Max. 60 psi (551.1 kPa)



24-HOUR PRODUCTION † lbs. kgs.

REMOTE AIR-COOLED UNIT

air temp	water temp		
	50°	70°	90°
1°F	10°	21°	32°
-20° to 70°	970	900	570
-29° to 21°	440	408	255
50°	920	850	760
32°	417	388	254
102°	840	770	710
38°	381	349	219

†Production for 24 hours per day.

AuCS®SI Accessory



Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

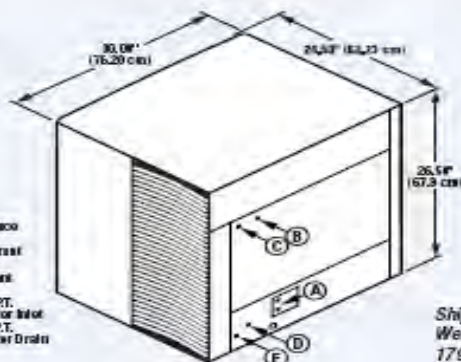
2 Cube Sizes Available



Half Dice
3/4" x 1 1/4" x 3/4"
1.95 x 2.88 x 2.22 cm

Dice
1/2" x 3/4" x 3/4"
1.27 x 2.22 x 2.22 cm

1000C Ice Machine



- Ⓐ Electrical Entrance (2) Options
- Ⓑ Suction Refrigerant Shut-off Valve
- Ⓒ Liquid Refrigerant Shut-off Valve
- Ⓓ 1/8" (0.36 cm) F.P.T. Ice Making Water Inlet
- Ⓔ 1/2" (1.27 cm) F.P.T. Ice Making Water Drain

CVD 1085 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

- Maximum Line Length—100' (30.5 m).*
- Maximum Vertical Rise—35' (10.7 m) above ice machine.
- Maximum Vertical Drop—15' (4.5 m) below ice machine.



*A rise over 20' (6 m) requires S-Trap Kit K-DC166 - ordered separately.

Condensing Unit Electric

208-230/60/1 standard. 208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard, IEC335-1, requirements for "tropical rating," the most severe duty rating an ice machine can obtain. (consult factory). HACR-type circuit breakers can be used in place of fuses. **Note:** QuietQube ice machine is wired independent of CVD condensing unit.

Min. circuit ampacity: 12.5 1/2h
9.4 3/2h

Max. fuse size: 20 amps 1/2h
15 amps 3/2h

HACR-type circuit breakers can be used in place of fuses.

BTU Per Hour:
16,000 (average) 22,000 (peak)

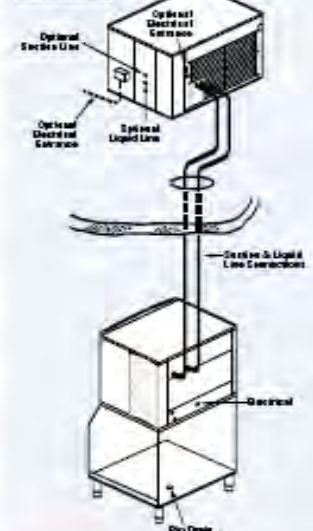
Compressor:
Nominal rating: 1-3/4 HP

Operating Limits:
• Ambient Temperature Range: -20° to 130°F (-29° to 54°C)

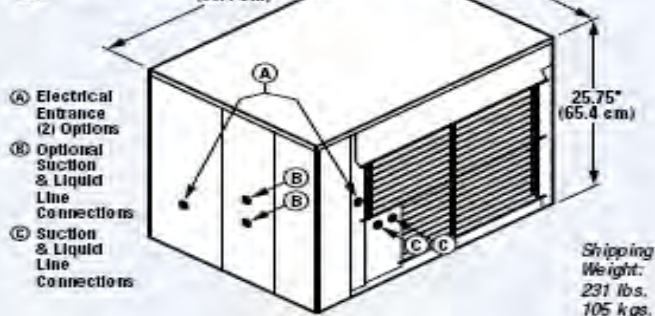
Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-21	20	6	12	5
RC-31	30	9	20	9
RC-51	50	15	28	13

Typical Installation



CVD-1085 Condensing Unit



- Ⓐ Electrical Entrance (2) Options
- Ⓑ Optional Suction & Liquid Line Connections
- Ⓒ Suction & Liquid Line Connections



MANITOWOC ICE, INC.
2111 South 20th Street, P.O. Box 1120
Manitowoc, WI 54221-1700, USA
Tel: 920-682-0161 • Fax: 920-682-7588
Visit us online at www.manitowocice.com



QuiteQube S1200C Remote Ice Cube Machine

With Patented CVD Technology®



Series 1000C Ice Cube Machine - 115V

- Quiet Qube Series Remote Systems consists of a remote condensing unit, ice machine head section, ice deflector and ice storage unit. All ordered separately.
- 30" (76.2 cm) wide, and 29.5" (74.9 cm) high
- Up to 1140 lbs. (517 kgs.) daily ice production
- CEE Tier 1 energy and water efficiency rating
- Quiet operation eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
- Stainless steel exterior with fit and finish of an appliance enhances any self-serve environment
- Patented built-in cleaning and sanitizing technology
- Ice machine is lighter in weight. 115 volt simplifies installation and maintenance
- CVD technology improves reliability and extends life of the compressor
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3-year parts-and-labor coverage on all other ice machine components



CVD Condensing Unit - 230V



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Manitowoc QuietCube® Series-1200C Remote

REMOTE AIR-COOLED ICE MACHINE

Model	Cube size	Ice production 24 hours		Power* KWh/100 lbs.
		lbs.	kgs.	
SD-1272C	dice	1,000	454	5.6
SY-1274C	half-dice	1,000	454	5.6

Water usage/100 lbs./45.4 kgs. of ice • Potable Water: 18 gallons, 68 liters

Ice machine for use with ice storage bin, ice dispenser and CVD condensing unit all ordered separately.
*KWh per 100 lbs. is total power of ice machine and condensing unit. Ice machine is 1 pt. only.
Condensing Unit is 1 pt. or 3 pt.

 Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810

Ice Machine Electric

115/60/1 standard, (230/50/1 also available, consult factory)

Total Amps: 2.5

Max. fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

Operating Limits:

- Ambient Temperature Range: 35° to 130°F (1.7° to 54.4°C)
- Water Temperature Range: 35° to 90°F (1.7° to 32.2°C)
- Water Pressure Ice Maker Water In: Min. 20 psi (137.9 kPa) Max. 80 psi (551.1 kPa)



air temp	24-HOUR PRODUCTION † lbs. kgs.		
	REMOTE AIR-COOLED UNIT		
	water temp		
°F	50°	70°	90°
°C	10°	21°	32°
-20° to 70°	1,140	1,030	950
-29° to 21°	516	468	431
90°	1,070	1,000	910
32°	496	454	413
100°	1,010	960	900
38°	459	436	409

† Production for 50° and 90° F air-cubes.

AuCS®/SI Accessory

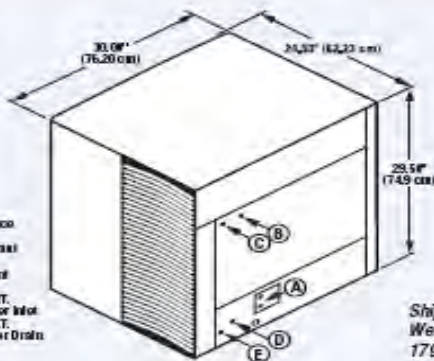


Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

2 Cube Sizes Available



1200C Ice Machine



- Ⓐ Electrical Entrance (2 Options)
- Ⓑ Suction Refrigerant Shut-off Valve
- Ⓒ Liquid Refrigerant Shut-off Valve
- Ⓓ 1/2" (1.27 cm) E.P.T. Ice Making Water Inlet
- Ⓔ 1/2" (1.27 cm) E.P.T. Ice Making Water Drain

CVD 1285 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (30.5 m).*

Maximum Vertical Rise*—35' (10.7 m) above ice machine

Maximum Vertical Drop—15' (4.5 m) below ice machine.

*A rise over 20' (6 m) requires S-Trap Kit K-C0166 - ordered separately.



Condensing Unit Electric

208-230/60/1 standard.

208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard, IEC335-1, requirements for "tropical rating," the most severe duty rating an ice machine can obtain, (consult factory). HACR-type circuit breakers can be used in place of fuses. Note: QuietCube ice machine is wired independent of CVD condensing unit.

Min. circuit ampacity: 14.7 1ph
10.6 3ph

Max. fuse size: 25 amps 1ph
20 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

BTU Per Hour: 19,000 (average) 28,000 (peak)

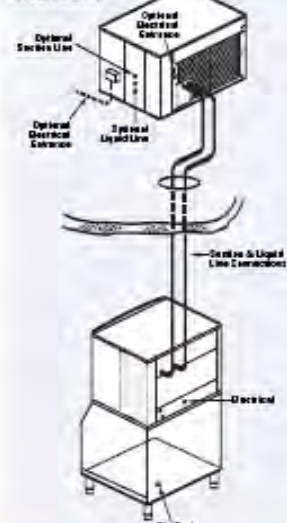
Compressor: Nominal rating: 2 HP

Operating Limits:
• Ambient Temperature Range: -20° to 130°F (-29° to 54°C)

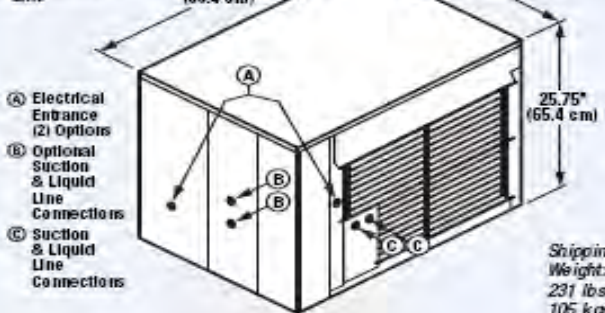
Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-20	20	6	12	5
RC-30	30	9	20	9
RC-50	50	15	28	13

Typical Installation



CVD-1285 Condensing Unit



- Ⓐ Electrical Entrance (2 Options)
- Ⓑ Optional Suction & Liquid Line Connections
- Ⓒ Suction & Liquid Line Connections



MANITOWOC ICE, INC.
3110 South 25th Street, P.O. Box 1720
Manitowoc, WI 54221-1720, USA
(920) 685-0161 • Fax: 920-684-7690
WEB: www.manitowocice.com





Q-Model Series 400 Undercounter Flake Ice Machine



Q-Model Series 400
Undercounter Flake Ice Machine



- Up to 395 lbs. (179 kgs.) daily ice production.
- Only 26" (66.04 cm) wide cabinet.
- High efficiency bronze evaporator.
- Split collar evaporator support with shaft coupling ensures longer water seal and bearing life.
- Evaporator drain valve makes unit easier to clean; improves sanitation; and requires less maintenance.
- Patented cleaning technology.
- Q-Model styling displays a stainless steel exterior with the fit and finish of an appliance.
- Warranty
2-year parts and labor coverage on all components. Additional 3-year (5-year total) parts coverage on ice machine compressor.

America's #1 Selling Ice Machine

Ice Cube & Flake Machines • Ice Storage Bins • Ice Dispensers



<http://www.diamondicesystems.com>

Manitowoc Series 400 Undercounter Flake Ice Machine

Space-Savings Designs



Height	38.50"	97.8 cm	Height includes adjustable bin legs: 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm).
Width	26.00"	66.04 cm	
Depth	26.50"	67.31 cm	
Bin Storage	60 lbs.	27.2 kgs.	

Model	Ice shape	Ice production 24 hours Based on Air/Water Temp.		Power kWh/100 lbs. @ 90°/70°F		
		70°Air/50°F Water	90°Air/70°F Water			
QF-0406A	flake	395 lbs.	179 kgs.	300 lbs.	136 kgs.	5.32
Water usage/100 lbs./45.4 kgs. of ice						
Potable Water: 12 gallons, 45.4 liters						

A following model number indicates "Air" condensing unit.
Test conditions are 90°F/32°C air, 70°F/21°C water, and 30 ± 3 psig water inlet pressure.

Ice Machine Electric

115/60/1. (230/50/1 also available.) 115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P-plug configuration. 230/50/1 ice machines are factory pre-wired with a 6' (180 cm) power cord only, no plug is supplied.

Total Amps: Air-cooled: 8.0 amps.

Maximum Fuse Size: Air-cooled: 15 amps.

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

4,000 (average) 4,000 (peak)

Compressor:

Nominal rating: 1/3 HP

Refrigerant: R-404A

Operating Limits:

- Ambient Temperature Range: 45°-110°F (7.2°-43.3°C)
- Range: 60°-100°F (16°-38°C)
- Water Temperature Range: 45°-90°F (7.2°-32.2°C)
- Recommended Range: 55°-80°F (13°-27°C)
- Water Pressure Ice Maker Water In: Min. 20psi (137.9kPA) Max. 80psi (551.1kPA)

Bronze Evaporator

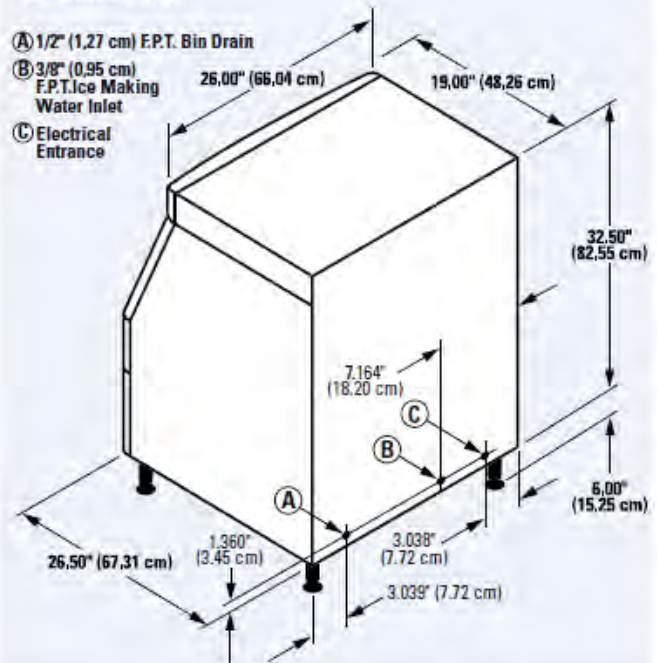
Heavy-duty, precision-machined, bronze evaporator offers superior heat-transfer capabilities for greater efficiency.

Front Access



Initiate ice, off and clean operations with simple upfront selector switch. No need to remove front panel.

QF Series 400



Installation Note - The QF Series 400 Undercounter Flake ice machine may be built into a cabinet. Access to the rear of the ice machine may be necessary for service procedures. Install with provisions that allow removal of the ice machine without disassembling the cabinet.

Ice Shape

Flake ice is small hard bits of ice ideally suited for presentation applications.



Air Flow Front View



Air in left, air out right, no side vents.

Air Filter



Slides out from left side front without tools, easy to clean, reusable filter protects condenser from lint, grease and dust.



Manitowoc[®]

RF0244 • RF0266 Flake Ice Machines



Model RF0244A
Flake Ice Machine



Model RF0266A
Flake Ice Machine



- Up to 182 lbs. (83 kgs.) daily flake ice production.
- Up to 60 lbs. (27 kgs.) ice storage capacity.
- High load capacity bearings for enhanced reliability.
- Heavy duty stainless steel cabinet resists corrosion.
- Easy access door, slides up & out of the way.

Warranty

- 3-year Parts
- 2-year Labor
- Compressor parts for 5 years and labor for 2 years.

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Manitowoc RF0244 • RF0266 Flake Ice Machines

Model	Ice Shape	Ice Production 24 Hrs.		Power kWh/ 100 lbs. 90°/70°F	Potable Water Usage (100 lbs./ 45.4 kgs. of Ice)	Bin Storage Capacity
		70° Air / 50°F Water	90° Air / 70°F Water			
		RF0244A	Flake				182 lbs. 83 kgs.	150 lbs. 68 kgs.	7.86	12 Gal. 45.4 L	40 lbs. 18 kgs.
RF0266A	Flake	182 lbs. 83 kgs.	150 lbs. 68 kgs.	7.86	12 Gal. 45.4 L	60 lbs. 27 kgs.

*A1 full-size model number indicates "Air" cooled unit

Space-Savings Designs RF0244 RF0266



Height includes adjustable bin legs 4.50" to 6.00", (11.43 cm to 15.24 cm) set at 6.00" (15.24 cm).

	RF0244	RF0266
Height	33.17"	37.50"
	84.24"	95.24"
Width	19.69"	19.69"
	50.00 cm	50.00 cm
Depth	25.98"	25.98"
	66.00 cm	66.00 cm
Bin	40lbs.	60 lbs.
Storage	18 kgs.	27 kgs.

Ice Machine Electric

*115/60/1. (230/50/1 also available.)

115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P plug configuration.

*230/50/1 ice machines are factory pre-wired with a 6' (180 cm) power cord with either: no plug or prewired with Schuko or Blade "G Type" Plugs.

Total Amps: Air-cooled: 7.5 amps.

Maximum fuse size: Air-cooled: 15 amps.

HACR-type circuit breakers can be used in place of fuses.

Ice Shape

Flake ice is small hard bits of ice ideally suited for presentation applications.



Specifications

BTU Per Hour:
2,400 (average)

Compressor:

Nominal rating: 1/4 HP

Refrigerant: R-404A

Operating Limits:

• **Ambient Temperature Range:**

50°-110°F (10°-43°C)

• **Water Temperature Range:**

37°-90°F (3°-32°C)

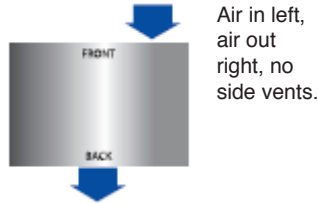
• **Water Pressure Ice Maker**

Water In:

Min. 14 psi (96.5 kPa)

Max. 80 psi (551.6 kPa)

Air Flow Overhead View



Standard Equipment

RF0244A / RF0266A

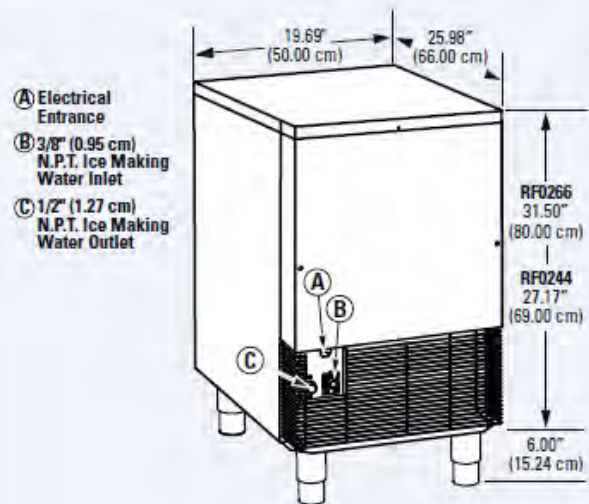
Ice Scoop, 6" Bin Legs, Alternate

Low Profile Legs Standard Legs

Adjustable from 4-1/2" to 6"

Low Profile Non-Adjustable 1/4"

RF0244 / RF0266



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Installation Note - Minimum installation clearance:
Top/sides: 8" (20.32 cm), back: 5" (12.70 cm).



Manitowoc

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



Manitowoc[®]

RF0300 Flake Ice Machine



Model RF0300A
Flake Ice Machine
on B-570 Bin



- Up to 311 lbs. (141 kgs.) daily flake ice production.
- High load capacity bearings for enhanced reliability.
- Heavy duty stainless steel cabinet resists corrosion.

Warranty

- 3-year Parts
- 2-year Labor
- Compressor parts for 5 years and labor for 2 years.



ISO 9001:2000
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DIAMOND
Ice Systems Ltd.

<http://www.diamondicesystems.com>

Manitowoc RF0300 Flake Ice Machine

Model	Ice Shape	Ice Production 24 Hrs.		Power kWh/ 100 lbs. 90°/70°F	Potable Water Usage (100 lbs./ 45.4 kgs. of Ice)
		70° Air / 50°F Water	90° Air / 70°F Water		
		RF0300A	Flake			311 lbs. 141 kgs.	259 lbs. 117 kgs.	6.48	12 Gal. 45.4 L

Ice Machine Electric

115/60/1 standard. (230/50/1 also available.)

Total Amps: 10 amps.

Maximum fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

3,500 (average)

Compressor:

Nominal rating: 1 HP

Refrigerant: R-404A

Operating Limits:

• **Ambient Temperature Range:**

50°-110°F (10°-43°C)

• **Water Temperature Range:**

37°-90°F (3°-32°C)

• **Water Pressure Ice Maker Water In:**

Min. 14 psi (96.5 kPa)

Max. 80 psi (551.6 kPa)

Accessories

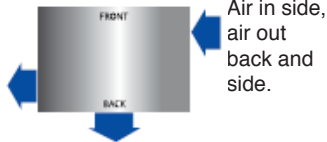
K-00405 48" B-Style Bin Adapter

Standard Equipment

K-00404 30" B-Style Bin Adapter*

*adapter not for use with Large Capacity Bins

Air Flow Overhead View



Space-Savings Designs

RF0300 B-570

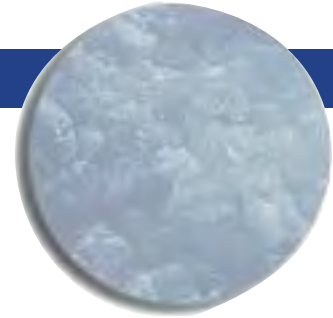


Height includes adjustable bin legs 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm).

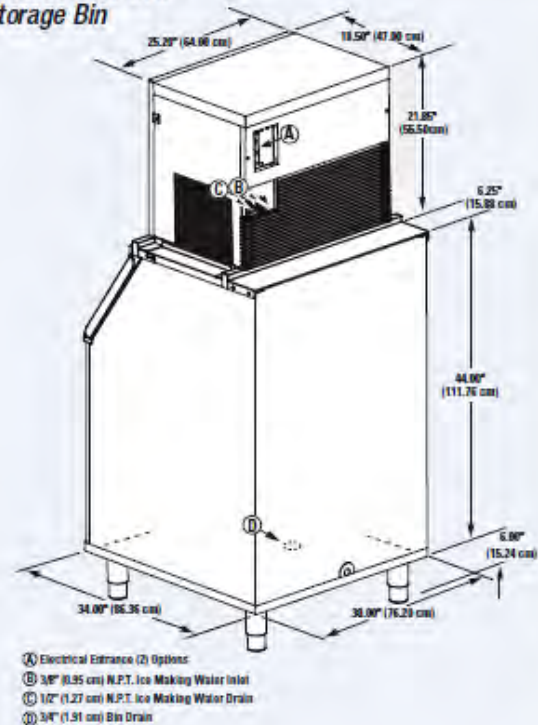
Height	71.85
	182.50 cm
Width	30.00"
	76.20 cm
Depth	34.00"
	86.36 cm
Bin	430 lbs.
Storage	195 kgs.

Ice Shape

Flake ice is small hard bits of ice ideally suited for presentation applications.



RF0300 on B-570 Storage Bin



Installation Note - Minimum installation clearance:
Top/sides: 8" (20.32 cm), back: 5" (12.70 cm).





Manitowoc[®]

RF0388 • RF0399 Flake Ice Machines



Model RF0388A
Flake Ice Machine

Model RF0399A
Flake Ice Machine



- Up to 332 lbs. (151 kgs.) daily flake ice production.
- Up to 120 lbs. (54 kgs.) ice storage capacity.
- High load capacity bearings for enhanced reliability.
- Heavy duty stainless steel cabinet resists corrosion.
- Easy access door, slides up & out of the way.

Warranty

- 3-year Parts
- 2-year Labor
- Compressor parts for 5 years and labor for 2 years.



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<http://www.diamondicesystems.com>

Manitowoc RF0388 • RF0399 Flake Ice Machines

Model	Ice Shape	Ice Production 24 Hrs.		Power kWh/ 100 lbs. 90°/70°F	Potable Water Usage (100 lbs./ 45.4 kgs. of Ice)	Bin Storage Capacity
		70° Air/ 50°F Water	90° Air/ 70°F Water			
		RF0388A	Flake				332 lbs. 151 kgs.	270 lbs. 122 kgs.	6.41	12 Gal. 45.4 L	90 lbs. 41 kgs.
RF0399A	Flake	332 lbs. 151 kgs.	270 lbs. 122 kgs.	6.41	12 Gal. 45.4 L	120 lbs. 54 kgs.

*"A" following model number indicates "Air" condensing unit.
Test conditions are 90°F/32°C air, 70°F/21°C water, and 30 ± 3 psig water inlet pressure.

Ice Machine Electric

*115/60/1. (230/50/1 also available.)
115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P plug configuration.
*230/50/1 ice machines are factory pre-wired with a 6' (180 cm) power cord with either: no plug or prewired with Schuko or Blade "G Type" Plugs.
Total Amps: Air-cooled: 10 amps.
Maximum fuse size: Air-cooled: 15 amps
HACR-type circuit breakers can be used in place of fuses.

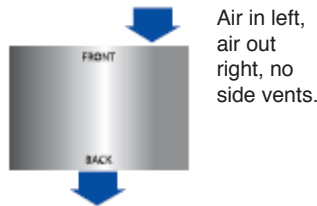
Specifications

- BTU Per Hour:** 3,500 (average)
- Compressor:** Nominal rating: 1/2 HP
- Refrigerant:** R-404A
- Operating Limits:**
 - Ambient Temperature Range:** 50°-110°F (10°-43°C)
 - Water Temperature Range:** 37°-90°F (3°-32°C)
 - Water Pressure Ice Maker Water In:** Min. 14 psi (96.5 kPa) Max. 80 psi (551.6 kPa)

Standard Equipment

RF0388 / RF0399
Ice Scoop, 6" Bin Legs, Alternate Low Profile Legs
Standard Legs Adjustable from 4-1/2" to 6" Low Profile Non-Adjustable 1/4"

Air Flow Overhead View

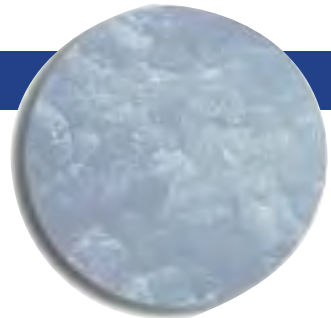


Space-Savings Designs

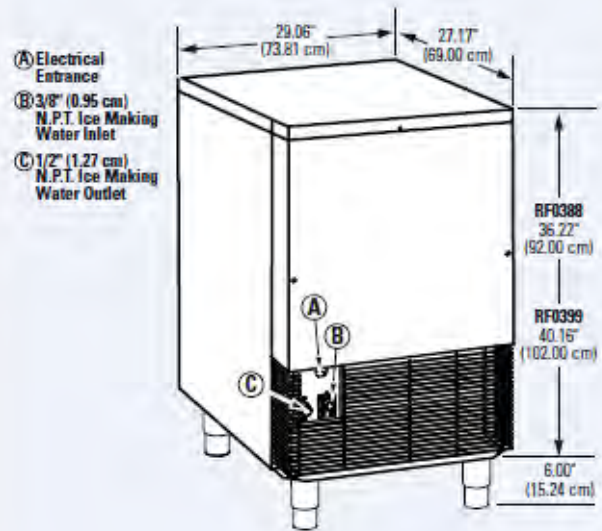
	RF0388	RF0399
Height	42.22"	46.16"
	107.24 cm	117.24 cm
Width	29.06"	29.06"
	73.81 cm	73.81 cm
Depth	27.17"	27.17"
	69.00 cm	69.00 cm
Bin Storage	90 lbs. 41 kgs.	120 lbs. 54 kgs.

Ice Shape

Flake ice is small hard bits of ice ideally suited for presentation applications.



RF0388 / RF0399



Installation Note - Minimum installation clearance:
Top/sides: 8" (20.32 cm), back: 5" (12.70 cm).



Manitowoc[®]

RF0650 Flake Ice Machine



Model RF0650A
Flake Ice Machine
on B-570 Bin

- Up to 688 lbs. (312 kgs.) daily flake ice production.
- High load capacity bearings for enhanced reliability.
- Heavy duty stainless steel cabinet resists corrosion.

Warranty

- 3-year Parts
- 2-year Labor
- Compressor parts for 5 years and labor for 2 years.



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America's #1 Selling Ice Machine

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<http://www.diamondicesystems.com>

Manitowoc RF0650 Flake Ice Machine

Model	Ice Shape	Ice Production 24 Hrs.		Power kWh/ 100 lbs./ 90°/70°F	Potable Water Usage (100 lbs./ 45.4 kgs. of ice)
		70° Air / 50°F Water	90° Air / 70°F Water		
RF0650A	Flake	688 lbs.	540 lbs.	5.06	12 Gal. 45.4 L
		312 kgs.	245 kgs.		

Ice Machine Electric

208-230/60/1 standard. (230/50/1 also available.)

Total Amps: 7.3 amps.

Maximum fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Space-Savings Designs

RF0650 B-570



Height includes adjustable bin legs 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm).

Height	77.5"
	197.00 cm
Width	30.00"
	76.20 cm
Depth	34.00"
	86.36 cm
Bin	430 lbs.
Storage	195 kgs.

Specifications

BTU Per Hour:

7,700 (average)

Compressor:

Nominal rating: 1 HP

Refrigerant: R-404A

Operating Limits:

- Ambient Temperature Range: 50°-110°F (10°-43°C)

- Water Temperature Range: 37°-90°F (3°-32°C)

- Water Pressure Ice Maker Water In: Min. 14 psi (96.5 kPa) Max. 80 psi (551.6 kPa)

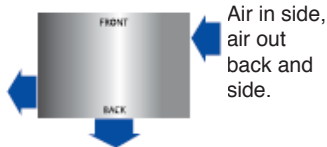
Standard Equipment

K-00404 30" B-Style Bin Adapter

Accessories

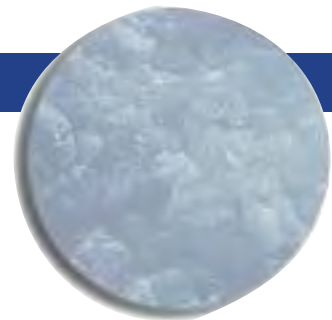
K-00405 48" B Style Bin Adapter*
*adapter not for use with Large Capacity Bins.

Air Flow Overhead View

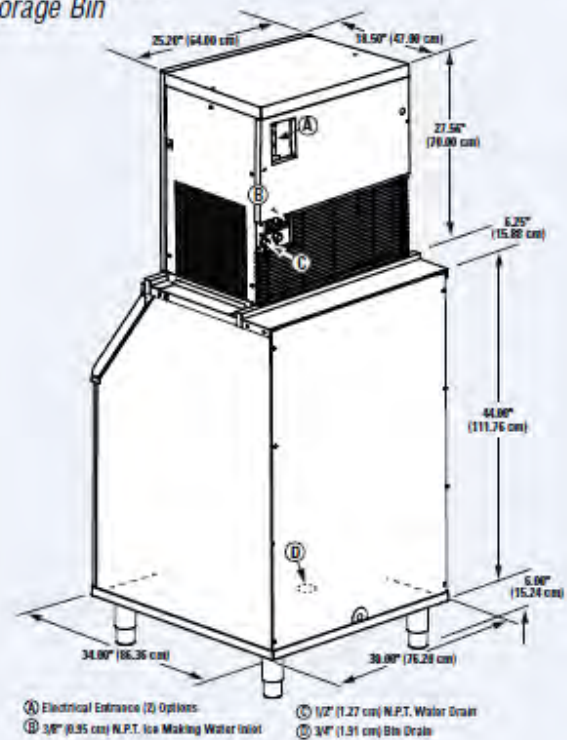


Ice Shape

Flake ice is small hard bits of ice ideally suited for presentation applications.



RF0650 on B-570 Storage Bin



Installation Note - Minimum installation clearance:
 Top/sides: 8" (20.32 cm), back: 5" (12.70 cm).



Manitowoc

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



Manitowoc[®]

RF1200 Flake Ice Machine



Model RF1200A
Flake Ice Machine
on B-570 Bin

- Up to 1,186 lbs. (538 kgs.) daily flake ice production.
- High load capacity bearings for enhanced reliability.
- Heavy duty stainless steel cabinet resists corrosion.

Warranty

- 3-year Parts
- 2-year Labor
- Compressor parts for 5 years and labor for 2 years.



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<http://www.diamondicesystems.com>

Manitowoc RF1200 Flake Ice Machine

	Model	Ice Shape	Ice Production 24 Hrs.		Power kWh/100 lbs. 90°/70°F	Water Usage (100 lbs./45.4 kgs. of Ice)	
			70° Air / 50°F Water	90° Air / 70°F Water		Potable Water	Condenser Water
WATER COOLING	RF1200A	Flake	1,196 lbs.	864 lbs.	5.63	12 Gal.	N/A
			538 kgs.	392 kgs.		45.4 L.	N/A
WATER COOLING	RF1200 W	Flake	1,204 lbs.	1,004 lbs.	4.11	12 Gal.	103 Gal.
			546 kgs.	455 kgs.		45.4 L.	390 L.

Ice Machine Electric

208-230/60/1 standard. (230/50/1 also available.)

Minimum circuit ampacity: 15 amps.

Maximum fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Space-Savings Designs

RF0650 B-570



Height	77.5"
	197.00 cm
Width	30.00"
	76.20 cm
Depth	34.00"
	86.36 cm
Bin	430 lbs.
Storage	195 kgs.

Height includes adjustable bin legs 6.00" to 7.00", (15.24 to 17.78 cm) set at 6.00" (15.24 cm).

Specifications

BTU Per Hour:

Air: 14,000 (average)

Water: 1,500 (average)

Compressor:

Nominal rating: 1.5 HP

Refrigerant: R-404A

Operating Limits:

• **Ambient Temperature Range:**
50°-110°F (10°-43°C)

• **Water Temperature Range:**
37°-90°F (3°-32°C)

• **Water Pressure Ice Maker Water In:**

Min. 14 psi (96.5 kPa)

Max. 80 psi (551.6 kPa)

• **Condenser Inlet Water In:**
(Water-cooled only)

Min 20 psi (137.9 kPa)

Max 150 psi (1034.2 kPa)

Water Condenser not for sea water applications.

Standard Equipment

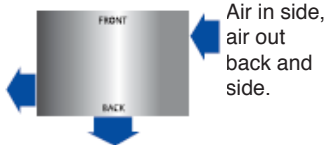
K-00404 30" B-Style Bin Adapter

Accessories

K-00405 48" B Style Bin Adapter*

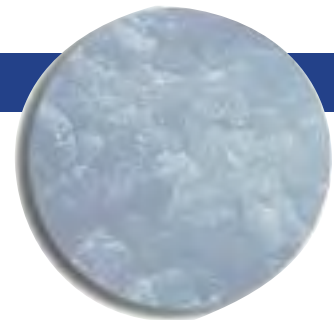
*adapter not for use with Large Capacity Bins.

Air Flow Overhead View

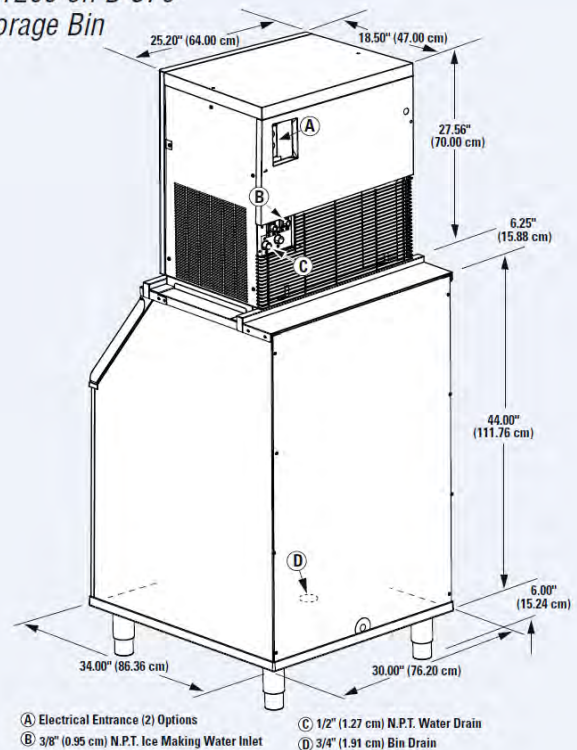


Ice Shape

Combination of small and large bits of ice for presentation and cooling applications.



RF1200 on B-570 Storage Bin



Installation Note - Minimum installation clearance:
 Top/sides: 8" (20.32 cm), back: 5" (12.70 cm).



Manitowoc

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

Quiet Qube Remote



QuietQube® S-680C Remote Ice Cube Machine



Series 680C Ice Cube Machine - 115V



Series 680C Ice Cube Machine - 115V



SD-0682C Ice Machine on a B-570 Bin

QuietQube® Series Remote System consists of a remote condensing unit, interconnecting refrigerant lines, ice machine head section, ice deflector, and ice storage unit— whether storage bin, countertop or floor-standing dispenser. All ordered separately. QuietQube ice machine with CVD condensing unit is designed as a Manitowoc system and not for use with any other ice machine or remote condenser brand.

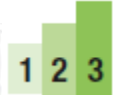
- Up to 680 lbs. (308 kgs.) daily ice production
 - CEE Tier 3 energy and water efficiency rating.
 - Only 30" (76.2 cm) wide, 21.50" (54.61 cm) high
 - Quiet operation eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
 - Patented CVD technology improves reliability and extends life of the compressor
 - Ice machine is lighter in weight and 115 volt simplifies installation and reduces electrical installation cost
 - Utility connections out the back or top of the unit maximize floor space and provide additional installation options
 - Stainless steel exterior with the fit and finish of an appliance, enhances the display in any self-serve environment
 - Patented cleaning and sanitizing technology
 - Standard installation criteria facilitates easy replacement of existing remote condenser unit
 - Warranty
- 5-year parts and 5-year labor coverage on ice machine evaporator
5-year parts and 3-year labor coverage on ice machine compressor
3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components

Manitowoc QuietQube® S-680C

REMOTE AIR-COOLED ICE MACHINE

Model	Ice Shape	Ice Production 24 hours		Power Usage kWh/100 lbs. @ 90°Air/70°F			Water Usage/100 lbs. 45.4 kgs. of ice		ENERGY STAR®
		70°Air/50°F Water	90°Air/70°F Water	1 Ph	CEE Tier	3 Ph	CEE Tier	Potable Water		CEE Tier
SD-0682C	dice	650 lbs.	575 lbs.	5.42	3	5.25	3	18.8 gal.	3
		295 kgs.	261 kgs.					71 L.	
SY-0684C	half-dice	680 lbs.	590 lbs.	5.43	3	5.25	3	18.8 gal.	3
		308 kgs.	268 kgs.					71 L.	

Ice machine for use with ice storage bin or ice dispenser and CVD condensing unit all ordered separately. *kWh per 100 lbs. is total power of ice machine and condensing unit.



*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

Ice Machine Electric

208-230/60/1 standard. (230/50/1 also available.)

Total Amps: 1.1

Max fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

Operating Limits:

• Ambient Temperature

Range: 35°-110°F (1.7°-43°C)

• Water Temperature Range:

35°-90°F (1.7°-32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

24-HOUR PRODUCTION lbs. kgs.						
air temp	HALF-DICE CUBE			DICE CUBE		
	water temp	water temp	water temp	water temp	water temp	water temp
F	50°	70°	90°	50°	70°	90°
°C	10°	21°	32°	10°	21°	32°
-20° to 70°F	680	630	590	650	600	535
-29° to 21°C	308	286	268	295	272	243
90°	640	590	550	625	575	530
32°	290	268	250	284	261	240
100°	600	550	510	590	540	495
38°	272	250	231	268	245	225

AuCS®/SI Accessory



Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

2 Cube Sizes Available



Half Dice
3/8" x 1 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

CVD-0685 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (30.5 m).*

Maximum Vertical Rise*—35' (10.7 m) above ice machine.

Maximum Vertical Drop—15' (4.5 m) below ice machine.

*A rise over 20' (6 m) requires S-Trap Kit K-00172 - ordered separately.

Condensing Unit Electric

208-230/60/1 standard.

208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard, IEC335-1, requirements for "tropical rating," the most severe duty rating an ice machine can obtain, (consult factory). HACR-type circuit breakers can be used in place of fuses.

Note: QuietQube ice machine is wired independent of CVD condensing unit.

Min. circuit ampacity: 11.0 1ph
7.5 3ph

Max. fuse size: 15 amps 1ph
15 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

BTU Per Hour:
10,300 (average) 11,700 (peak)

Compressor:

Nominal rating: 1 HP

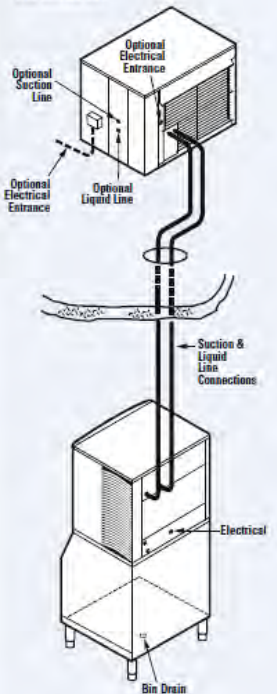
Operating Limits:

• Ambient Temperature Range:
-20° to 120°F (-29° to 49°C)

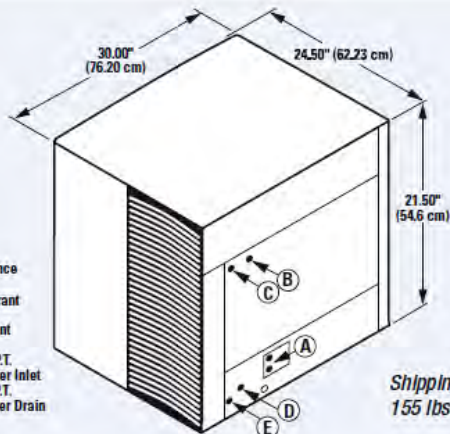
Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-21	20	6	12	5
RC-31	30	9	17	8
RC-51	50	15	27	12

Typical Installation



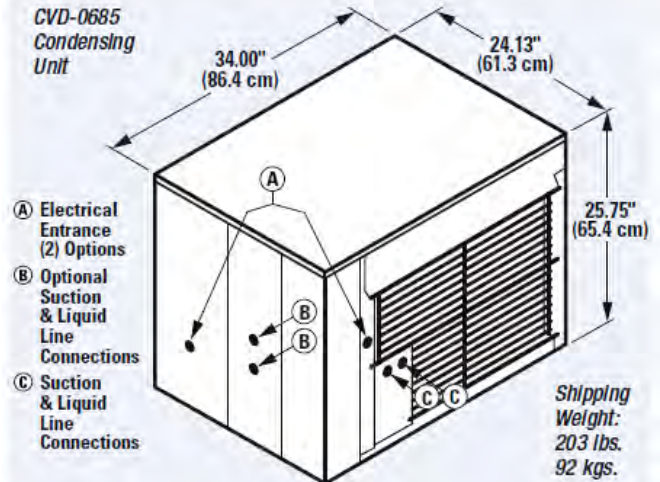
680C Ice Machine



- (A) Electrical Entrance (2) Options
- (B) Suction Refrigerant Shut-off Valve
- (C) Liquid Refrigerant Shut-off Valve
- (D) 3/8" (0.95 cm) F.P.T. Ice Making Water Inlet
- (E) 1/2" (1.27 cm) F.P.T. Ice Making Water Drain

Shipping Weight:
155 lbs. / 70 kgs.

CVD-0685 Condensing Unit



- (A) Electrical Entrance (2) Options
- (B) Optional Suction & Liquid Line Connections
- (C) Suction & Liquid Line Connections

Shipping Weight:
203 lbs.
92 kgs.



Manitowoc®

QuietQube® S-850C Remote Ice Cube Machine



SY-0874C Ice Machine - 115V



CVD Condensing Unit - 230V



QuietQube® Series Remote System consists of a remote condensing unit, interconnecting refrigerant lines, ice machine head section, ice deflector, and ice storage unit— whether storage bin, countertop or floor-standing dispenser. All ordered separately. QuietQube ice machine with CVD condensing unit is designed as a Manitowoc system and not for use with any other ice machine or remote condenser brand.

- Up to 815 lbs. (370 kgs.) daily ice production
 - Up to CEE Tier 2 energy and water efficiency rating.
 - Only 30" (76.2 cm) wide, 26.50" (67.3 cm) high
 - Quiet operation eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
 - Patented CVD technology improves reliability and extends life of the compressor
 - Ice machine is lighter in weight and 115 volt simplifies installation and reduces electrical installation cost
 - Utility connections out the back or top of the unit maximize floor space and provide additional installation options
 - Stainless steel exterior with the fit and finish of an appliance, enhances the display in any self-serve environment
 - Patented cleaning and sanitizing technology
 - Standard installation criteria facilitates easy replacement of existing remote condenser unit
 - Warranty
- 5-year parts and 5-year labor coverage on ice machine evaporator
5-year parts and 3-year labor coverage on ice machine compressor
3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components



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Manitowoc QuietQube® S-850C

REMOTE AIR-COOLED ICE MACHINE

Model	Ice Shape	Ice Production 24 Hours				Power kWh/100 lbs. @ 90°/70°F		CEE* Rating	ENERGY STAR®
		70° Air/50°F Water		90° Air/70°F Water		1 ph	3 ph		
SY-0874C	half-dice	815	370	705	320	5.5	5.5	Tier 2	★
SD-0872C	dice	665	302	600	272	6.3	6.2	Tier 1	★

Water usage/100 lbs./45.4 kgs. of Ice • Potable Water: 18 gallons, 68 liters

Ice machine for use with ice storage bin or ice dispenser and CVD condensing unit all ordered separately.

*kWh per 100 lbs. is total power of ice machine and condensing unit. Ice machine is 1 ph only. Condensing unit is 1 ph or 3 ph.

1 2 3

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

24-HOUR PRODUCTION†							lbs. kgs.		
HALF-DICE CUBE				DICE CUBE					
AIR-COOLED	air temp	water temp			air temp	water temp			
		°F	50"	70"	90"	°F	50"	70"	90"
	°C	10"	21"	32"	°C	10"	21"	32"	
	-20" to 70"	815	745	680	70"	665	625	585	
	-29" to 21"	370	338	308	21"	302	283	265	
	80"	768	725	648	80"	635	613	558	
	27"	348	329	294	27"	288	278	253	
	90"	720	705	615	90"	605	600	530	
	32"	327	320	279	32"	274	272	240	

Ice Machine Electric

208-230/60/1 standard.
(230/50/1 also available.)

Total Amps: 1.1

Max fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

AuCS@SI Accessory



Automatic Cleaning System purchased factory installed in the machine or as an option for field retrofit.

Specifications

Operating Limits:

• Ambient Temperature Range: 35°-110°F (4.4°-43°C)

• Water Temperature Range: 35°-90°F (4.4°-32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPA)

Max. 80 psi (551.1 kPA)

2 Cube Sizes Available



Half Dice

3/8" x 1 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

CVD-0885 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (30.5 m).*

Maximum Vertical Rise*—35' (10.7 m) above ice machine.

Maximum Vertical Drop—15' (4.5 m) below ice machine.

*A rise over 20' (6 m) requires S-Trap Kit K-00172 - ordered separately.

Condensing Unit Electric

208-230/60/1 standard.

208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard, IEC335-1, requirements for "tropical rating," the most severe duty rating an ice machine can obtain, (consult factory). HACR-type circuit breakers can be used in place of fuses.

Note: QuietQube ice machine is wired independent of CVD condensing unit.

Min. circuit ampacity: 11.8 1ph
9.1 3ph

Max. fuse size: 20 amps 1ph
15 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

BTU Per Hour: 13,000 (average) 16,000 (peak)

Compressor:

Nominal rating: 1-1/12 HP

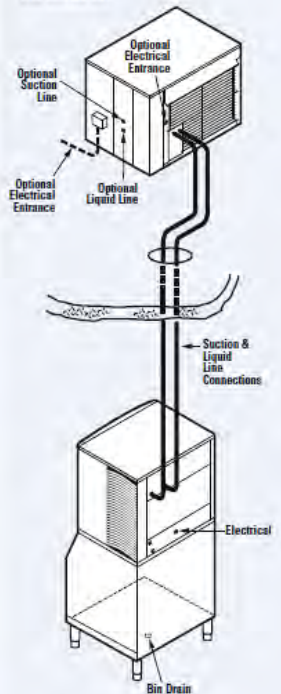
Operating Limits:

• Ambient Temperature Range: -20° to 130°F (-29° to 54°C)

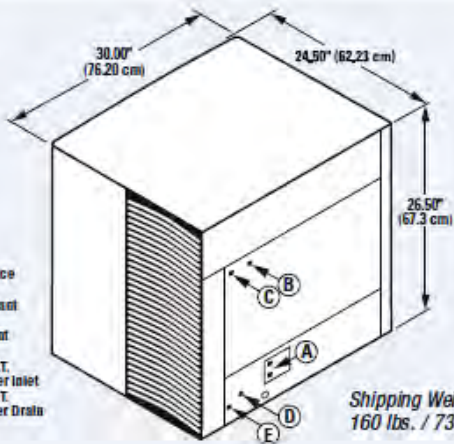
Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-21	20	6	12	5
RC-31	30	9	17	8
RC-51	50	15	27	12

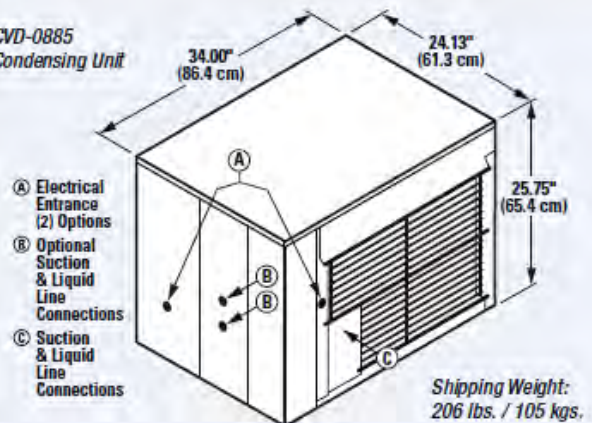
Typical Installation



850C Ice Machine



CVD-0885 Condensing Unit



British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



Manitowoc®

QuietQube® S-1470C Remote Ice Cube Machine



SD-1472C Ice Cube Machine - 115V



CVD Condensing Unit - 208V



SD-1472C Ice Machine
on a B-570 Bin



Two SD-1472C
Ice Machines
on a B-1400 Bin

QuietQube® Series Remote System consists of a remote condensing unit, interconnecting refrigerant lines, ice machine head section, ice deflector, and ice storage unit— whether storage bin, countertop or floor-standing dispenser. All ordered separately. QuietQube ice machine with CVD condensing unit is designed as a Manitowoc system and not for use with any other ice machine or remote condenser brand. To minimize the frequency of cleaning, we molded AlphaSan® into select plastic components to reduce biofilm, often called slime.

- Up to 1,400* lbs. (635 kgs.) daily ice production
 - *Production rating outside the scope of ARI Standard 810.
 - CEE Tier 3 energy and water efficiency rating
 - Only 30" (76.2 cm) wide, 25" (63.5 cm) high
 - Quiet operation eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
 - Patented CVD technology improves reliability and extends life of the compressor
 - Ice machine is lighter in weight and 115 volt simplifies installation and reduces electrical installation cost
 - Utility connections out the back or top of the unit maximize floor space and provide additional installation options
 - Stainless steel exterior with the fit and finish of an appliance, enhances the display in any self-serve environment
 - Patented cleaning and sanitizing technology
 - Standard installation criteria facilitates easy replacement of existing remote condenser unit
 - Warranty
- 5-year parts and 5-year labor coverage on ice machine evaporator
5-year parts and 3-year labor coverage on ice machine compressor
3-year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components



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Manitowoc QuietQube® S-1470C

REMOTE AIR-COOLED ICE MACHINE

Model	Ice Shape	Ice Production 24 Hours		Power kWh/ 100 lbs. @ 90°/70°				
		lbs.	kgs.	1 ph	CEE* Rating	3 ph	CEE* Rating	ENERGY STAR®
SY-1474C	half-dice	1,235	560	4.5	Tier 3	4.3	Tier 3	★
SD-1472C	dice	1,220	553	4.5	Tier 3	4.3	Tier 3	★

Water usage/100 lbs./45.4 kgs. of ice • Potable Water: 18 gallons, 68 liters

Ice machine for use with ice storage bin or ice dispenser and CVD condensing unit all ordered separately.
*kWh per 100 lbs. is total power of ice machine and condensing unit. Ice machine is 1 ph only. Condensing unit is 1 ph or 3 ph.

1 2 3

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

24-HOUR PRODUCTION†						lbs. kgs.		
HALF-DICE CUBE			DICE CUBE					
air temp	water temp		air temp	water temp				
F	50°	70°	F	50°	70°			
°C	10°	21°	°C	10°	21°			
70°	1,400	1,300	70°	1,380	1,290			
21°	635	590	21°	626	585			
90°	1,250	1,235	90°	1,225	1,220			
32°	567	560	32°	556	553			
100°	1,170	1,090	100°	1,145	1,070			
38°	531	494	38°	519	485			

†Production for Dice and Half Dice cubes.

Ice Machine Electric

115/60/1 standard.
(230/50/1 also available.)
Total Amps: 1.1
Max fuse size: 15 amps
HACR-type circuit breakers can be used in place of fuses.

Specifications

- Operating Limits:
- Ambient Temperature Range: 35°-110°F (1.7°-43.3°C)
 - Water Temperature Range: 35°-90°F (1.7°-32.2°C)
 - Water Pressure Ice Maker Water In: Min. 20 psi (137.9 kPa) Max. 80 psi (551.1 kPa)

AuCS®/SI Accessory



Automatic Cleaning System purchased as an option and installed in the field.

2 Cube Sizes Available



Half Dice
3/8" x 11/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

CVD-1485 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (30.5 m).
Maximum Vertical Rise*—35' (10.7 m) above ice machine.
Maximum Vertical Drop—15' (4.5 m) below ice machine.
*A rise over 20' (6 m) requires S-Trap Kit K-00166 - ordered separately.

Condensing Unit Electric

208-230/60/1 standard.

208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard, IEC335-1, requirements for "tropical rating," the most severe duty rating an ice machine can obtain, (consult factory).

HACR-type circuit breakers can be used

in place of fuses. Note: QuietQube ice machine is wired independent of CVD condensing unit.

Min. circuit ampacity: 20 1ph
15 3ph

Max. fuse size: 20 amps 1ph
15 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

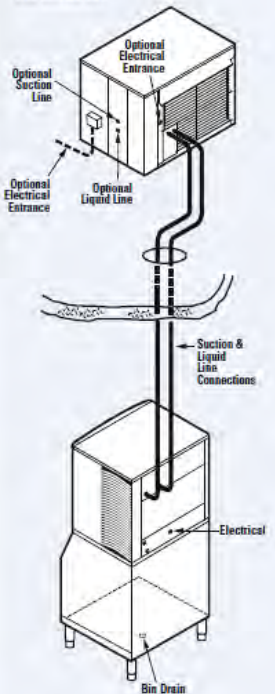
BTU Per Hour:
19,000 (average) 22,000 (peak)

Compressor:
Nominal rating: 1.75 HP

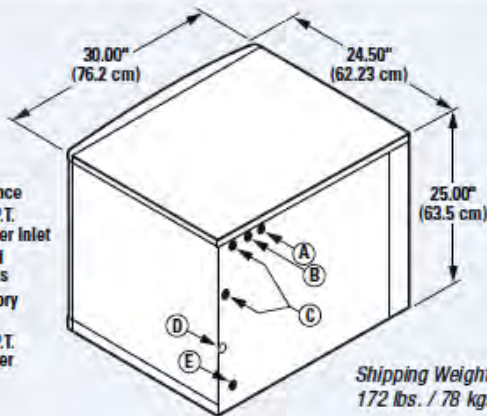
Operating Limits:
• Ambient Temperature Range:
-20° to 130°F (-29° to 54°C)

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-20	20	6	12	5
RC-30	30	9	20	9
RC-50	50	15	28	13

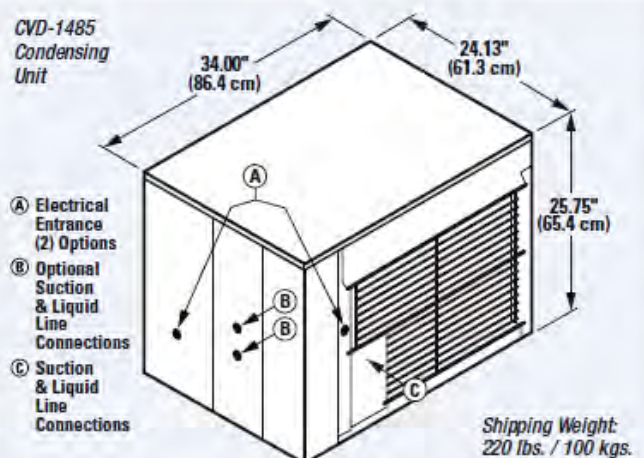
Typical Installation



1470C Ice Machine



CVD-1485 Condensing Unit



British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



Manitowoc®

QuietQube® S-1870C Remote Ice Cube Machine



SD-1872C Ice Machine - 115V



CVD Condensing Unit - 208V



Beverage Dispenser



QuietQube Series Remote System consists of a remote condensing unit, interconnecting refrigerant lines, ice machine head section along with an ice storage bin, countertop dispenser, or floor dispenser. All ordered separately. QuietQube ice machine with CVD condensing unit is designed as a Manitowoc system and cannot be used with any other ice machine or remote condenser brand.

- Up to 1,825 lbs. (826 kgs.) daily ice production
- Only 30" (76.2 cm) wide, 29/50" (74.9 cm) high
- CEE Tier 3 energy efficiency
- Quiet operation. Remotely located compressor eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
- Patented CVD® technology improves reliability and extends life of the compressor
- Ice machine is lighter in weight and 115 volt simplifies installation and reduces electrical installation cost
- Utility connections out the back or top of the unit maximize floor space and provide additional installation options
- Stainless steel exterior with the fit and finish of an appliance, enhances the display in any self-serve environment
- Patented cleaning and sanitizing technology
- Standard installation criteria facilitates easy replacement of existing remote condenser unit
- The S-1870C cannot be stacked. However, two S-1870C ice machines can be placed side by side on a 60" wide Manitowoc B-style large capacity bin. Requires ice deflector kit (ordered separately)
- Warranty
5-year parts and 5-year labor coverage on ice machine evaporator
5-year parts and 3-year labor coverage on ice machine compressor
3 year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components



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Manitowoc QuietQube® S-1870C

REMOTE AIR-COOLED ICE MACHINE

Model	Ice Shape	Ice Production 24 Hours				Power kWh/100 lbs. @ 90°/70°F		CEE* Rating	ENERGY STAR®
		70° Air/50°F Water		90° Air/70°F Water		1 ph	3 ph		
SD-1872C	dice	1,770	803	1,550	703	4.5	4.5	Tier 3	★
SY-1874C	half-dice	1,825	828	1,500	680	4.5	4.4	Tier 3	★

Water usage/100 lbs./45.4 kgs. of ice • Potable Water: 18 gallons, 68 liters

Order ice storage bin separately. "A" or "W" following model number indicates "Air" or "Water" condensing unit.

1 2 3

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

Ice Machine Electric

115/60/1 standard.

(230/50/1 also available.)

Total Amps: 1.1

Max fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

24-HOUR PRODUCTION ↑		AIR-COOLED UNIT					
air temp	water temp	HALF-DICE CUBE			DICE CUBE		
		50°	70°	90°	50°	70°	90°
F	50°	1,825	1,690	1,560	1,770	1,650	1,530
°C	10°	828	767	708	803	746	694
	70°	1,725	1,620	1,470	1,668	1,575	1,440
	21°	782	735	667	756	714	653
	80°	1,625	1,550	1,375	1,565	1,500	1,350
	27°	737	703	624	710	680	612

Specifications

BTU Per Hour:

27,000 (average) 31,000 (peak)

Compressor:

Nominal rating: 2.5 HP

Operating Limits:

• Ambient Temperature

Range:

35°-110°F (1.6°-43.4°C)

• Water Temperature Range:

35°-90°F (0.6°-32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

AuCS®/SI Accessory



Automatic Cleaning System purchased as an option and installed in the field.

2 Cube Sizes Available



Half Dice

3/8" x 1 1/8" x 7/8"

(.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"

(2.22 x 2.22 x 2.22 cm)

CVD-1885 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (30.5 m).*

Maximum Vertical Rise*—35' (10.7 m) above ice machine.

Maximum Vertical Drop—15' (4.5 m) below ice machine.

*A rise over 20' (6 m) requires S-Trap Kit K-00166 - ordered separately.

Condensing Unit Electric

208-230/60/1 standard.

208-230/60/3 and 230/50/1 also available. 50 Hz version of this model meets the international standard, IEC335-1, requirements for "tropical rating," the most severe duty rating an ice machine can obtain, (consult factory).

HACR-type circuit breakers can be used in place of fuses. **Note:** QuietQube

ice machine is 115/60/1 and wired independent of CVD condensing unit.

Min. circuit ampacity: 25 1ph
20 3ph

Max. fuse size: 40 amps 1ph
25 amps 3ph

HACR-type circuit breakers can be used in place of fuses.

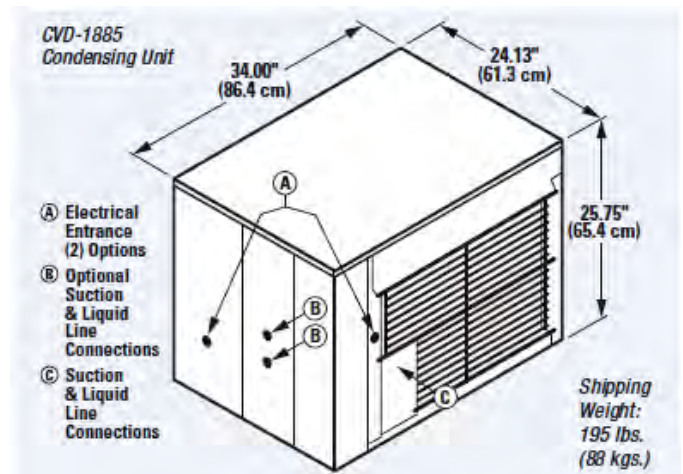
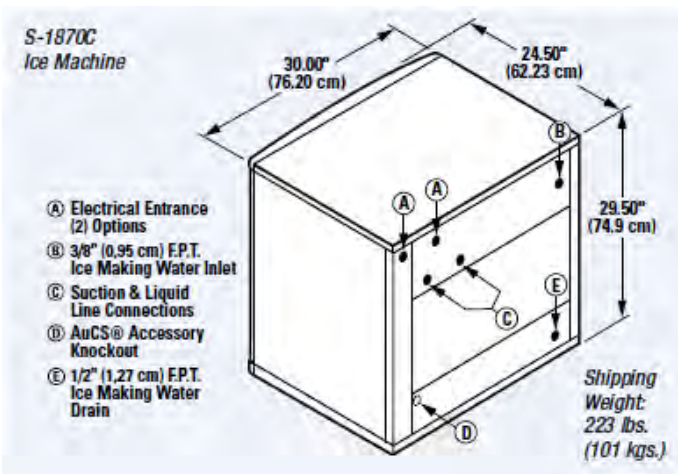
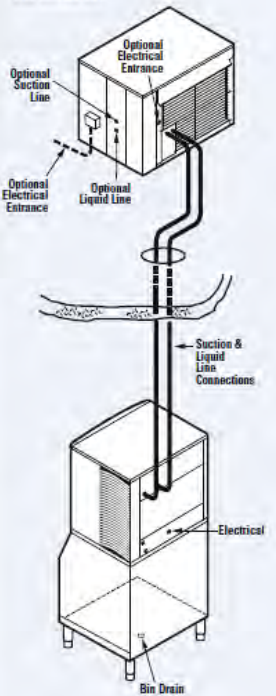
Operating Limits:

• Ambient Temperature Range:
-20° to 130°F (-29° to 54°C)

Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-20	20	6	12	5
RC-30	30	9	20	9
RC-50	50	15	28	13

Typical Installation



British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



QuietQube® S-2170C Remote Ice Cube Machine



S-2170C Ice Machine - 115V



CVD Condensing Unit - 208V



Beverage Dispenser



QuietQube Series Remote System consists of a remote condensing unit, interconnecting refrigerant lines, ice machine head section along with an ice storage bin, countertop dispenser, or floor dispenser. All ordered separately. QuietQube ice machine with CVD condensing unit is designed as a Manitowoc system and cannot be used with any other ice machine or remote condenser brand.

- Up to 1,975 lbs. (896 kgs.) daily ice production
- Only 30" (76.2 cm) wide, 29.50" (74.9 cm) high
- Up to CEE Tier 1 energy and water efficiency rating
- Quiet operation. Remotely located compressor eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
- Patented CVD® technology improves reliability and extends life of the compressor
- Ice machine is lighter in weight and 115 volt simplifies installation and reduces electrical installation cost
- Utility connections out the back or top of the unit maximize floor space and provide additional installation options
- Stainless steel exterior with the fit and finish of an appliance, enhances the display in any self-serve environment
- Patented cleaning and sanitizing technology
- Standard installation criteria facilitates easy replacement of existing remote condenser unit
- The S-2170C cannot be stacked. However, two S-2170C ice machines can be placed side by side on a 60" wide Manitowoc F-style large capacity bin. Requires ice deflector kit (ordered separately)
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3 year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components



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Manitowoc QuietQube® S-2170C

REMOTE AIR-COOLED ICE MACHINE

REMOTE COOLED	Model	Ice Shape	Ice Production 24 hours		Power Usage kWh/100 lbs. @ 90° Air/70°F				Water Usage/100 lbs. 45.4 kgs. of Ice	
			70° Air/ 50° F Water	90° Air/ 70° F Water	1 Ph	CEE Tier	3 Ph	CEE Tier	Potable Water	CEE Tier
			1925 lbs. 873 kgs.	1575 lbs. 714 kgs.	5.13	1	5.13	1	18 gal. 68 L.	3
	SD-2172C	dice								
	SY-2174C	half-dice								

Order ice storage bin separately.

1 2 3

*Consortium for Energy Efficiency (CEE) is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

Ice Machine Electric

115/60/1 standard.

Total Amps: 1.1

Max fuse size: 15 amps

HACR-type circuit breakers can be used in place of fuses.

24-HOUR PRODUCTION lbs. kgs.							
air temp	DICE CUBE			HALF-DICE CUBE			water temp
	water temp	water temp	water temp	water temp	water temp	water temp	
F	50°	70°	90°	50°	70°	90°	
°C	10°	21°	32°	10°	21°	32°	
70°F	1925	1775	1675	1975	1800	1675	
21°C	873	805	760	896	816	760	
80°F	1875	1675	1575	1925	1725	1625	
27°C	850	760	714	873	782	737	
90°F	1725	1575	1475	1825	1625	1525	
32°C	782	714	669	828	737	692	

Specifications

BTU Per Hour:

31,500 (average) 35,500 (peak)

Compressor:

Nominal rating: 3.5 HP

Operating Limits:

• Ambient Temperature

Range:

35°-110°F (1.6°-43.4°C)

• Water Temperature Range:

35°-90°F (0.6°-32.2°C)

• Water Pressure Ice Maker

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.1 kPa)

AuCS®/SI Accessory



Automatic Cleaning System purchased as an option and installed in the field.

2 Cube Sizes Available



Half Dice

3/8" x 11/8" x 7/8"

(.95 x 2.86 x 2.22 cm)



Dice

7/8" x 7/8" x 7/8"

(2.22 x 2.22 x 2.22 cm)

CVD-2085 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (30.5 m).*

Maximum Vertical Rise*—35' (10.7 m) above ice machine.

Maximum Vertical Drop—15' (4.5 m) below ice machine.

*A rise over 20' (6 m) requires S-Trap Kit K-00166 - ordered separately.

Condensing Unit Electric

208-230/60/1 standard.

208-230/60/3 also available.

HACR-type circuit breakers can be used in place of fuses. **Note:**

QuietQube

ice machine is 115/60/1 and wired independent of CVD condensing unit.

Min. circuit ampacity: 30 1ph

20 3ph

Max. fuse size: 40 amps 1ph

20 amps 3ph

Operating Limits:

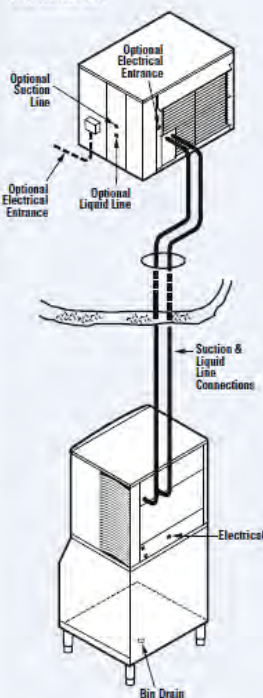
• Ambient Temperature Range:

-20° to 120°F (-29° to 49°C)

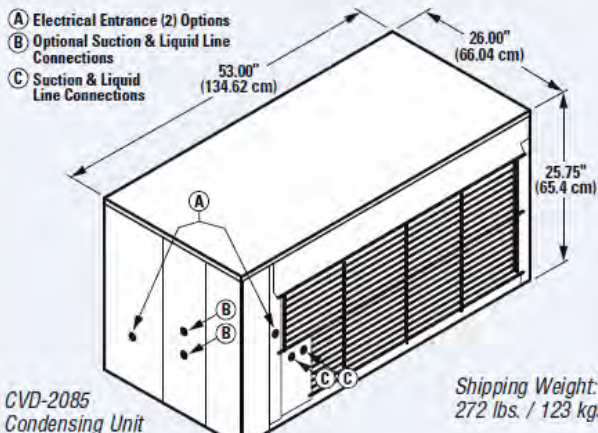
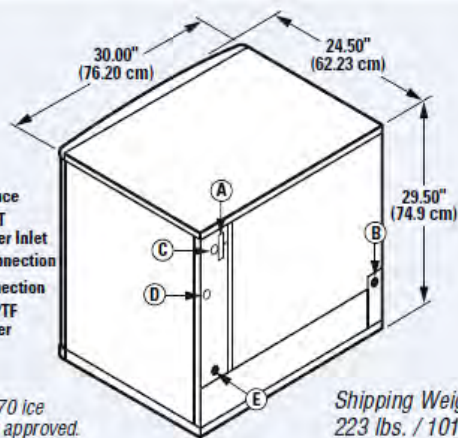
Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-23	20	6.2	19	9
RC-33	30	9.2	27	12
RC-53	50	15.2	38	17

Typical Installation



S-2170C Ice Machine





QuietQube® S-3070C Remote Ice Cube Machine



S-3070C Ice Machine - 115V



CVD Condensing Unit - 208-230/60/3



S-3070C on B-1400 bin

QuietQube Series Remote System consists of a remote condensing unit, interconnecting refrigerant lines, ice machine head section along with an ice storage bin, countertop dispenser, or floor dispenser. All ordered separately. QuietQube ice machine with CVD condensing unit is designed as a Manitowoc system and cannot be used with any other ice machine or remote condenser brand.

- Quadzilla™ Evaporator System– places four high-output individual evaporators in a compact 48" (121.92 cm) wide ice maker for up to 2,910 lbs. (1,320 kgs.) daily ice production
- Up to CEE Tier 3 energy and water efficiency rating
- Quiet operation. Remotely located compressor eliminates most noise from the refrigeration system. Promotes relaxing atmosphere
- Patented CVD® technology improves reliability and extends life of the compressor
- Utility connections out the back of the unit maximize floor space and provide additional installation options
- Stainless steel tubular frame construction - for added strength and durability
- Stainless steel exterior for superior corrosion resistance and durability
- Standard installation criteria facilitates easy replacement of existing remote condenser unit
- Not to be used in stacking configurations
- Warranty
 - 5-year parts and 5-year labor coverage on ice machine evaporator
 - 5-year parts and 3-year labor coverage on ice machine compressor
 - 3 year parts-and-labor coverage on all other ice machine, dispenser, and storage bin components



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Manitowoc QuietQube® S-3070C

REMOTE AIR-COOLED ICE MACHINE

Model	Ice Shape	Ice Production 24 hours		Power Usage kWh/100 lbs. @ 90°F Air/70°F F		Water Usage / 100 lbs. 45.4 kgs. of Ice	
		70°F Air/ 50°F Water	90°F Air/ 70°F Water	3 Ph	CEE Tier	Potable Water Usage	Potable Water CEE Tier
SD-3072C	dice	2,750 lbs.	2,250 lbs.	TBD	TBD	19.7 gal.	3
		1,247 kgs.	1,021 kgs.			75 L	
SY-3074C	half-dice	2,910 lbs.	2,420 lbs.	4.51	3	19.7 gal.	3
		1,320 kgs.	1,098 kgs.			75 L	

Order ice storage bin separately.

3 The Most Superior
2 Superior
1 Energy Efficient

***Consortium for Energy Efficiency (CEE)** is a North American nonprofit organization that promotes energy-efficient products, technologies and services; also the principal entity for the development of ice maker efficiency standards.

CVD-3085 REMOTE CONDENSING UNIT

Installation Information and Dimensions:

Maximum Line Length—100' (30.5 m).
Maximum Vertical Rise*—35' (10.7 m) above ice machine.
Maximum Vertical Drop—15' (4.5 m) below ice machine.
*A rise over 20' (6 m) requires S-Trap Kit K-00166 - ordered separately.

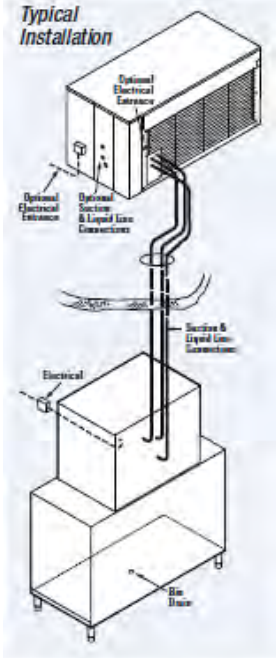
Condensing Unit Electric

208-230/60/3 standard.
HACR-type circuit breakers can be used in place of fuses. **Note:** QuietQube ice machine is 115/60/1 and wired independent of CVD condensing unit.
Min. circuit ampacity: 30 3ph
Max. fuse size: 35 amps 3ph
HACR-type circuit breakers can be used in place of fuses.

Operating Limits:
• **Ambient Temperature Range:** -20° to 120°F (-29° to 49°C)

Standard Interconnecting Tubing

Model	Line Length		Weight	
	ft.	m.	lbs.	kgs.
RC-24	20	6.2	268	122
RC-34	30	9.2	268	122
RC-54	50	15.2	268	122



Ice Machine Electric

115/60/1 standard.
Total Amps: 2.0
Max fuse size: 15 amps
HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:
40,000 (average) 46,000 (peak)
Compressor:

Nominal rating: 4.0 HP
Operating Limits:

- **Ambient Temperature Range:** 35°-110°F (1.6°-43.4°C)
- **Water Temperature Range:** 35°-90°F (0.6°-32.2°C)
- **Water Pressure Ice Maker Water In:** Min. 20 psi (137.9 kPa) Max. 80 psi (551.1 kPa)

24-HOUR PRODUCTION		AIR-COOLED UNIT					
air temp	water temp	HALF-DICE CUBE			DICE CUBE		
		50°	70°	90°	50°	70°	90°
°F	10°	21°	32°	10°	21°	32°	
°C	70°	2910	270	2510	2750	2550	2400
	21°	1320	1257	1139	1247	1157	1089
	80°	2710	2570	2310	2600	2400	2250
	27°	1229	1166	1048	1179	1089	1021
	90°	2660	2420	2160	2450	2250	2100
	32°	1207	1098	980	1111	1021	953

2 Cube Sizes Available



Half Dice
3/8" x 1 1/8" x 7/8"
(.95 x 2.86 x 2.22 cm)



Dice
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

Space-Savings Designs

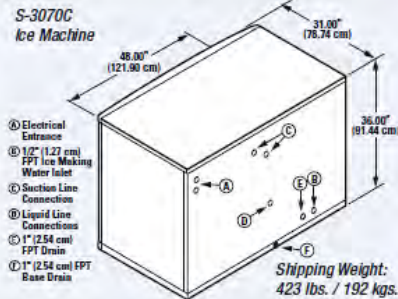
	S-3070C	S-3070C
	B-1100-00	B-1400-00

Height	91.00"	92.50"
	234.14 cm	234.95 cm
Width	48"	60.00"
	121.92 cm	152.40 cm
Depth	34.00"	34.00"
	86.30 cm	86.30 cm
Bin	1,114 lbs.	1,416 lbs
Storage	505 kgs.	642 kgs.

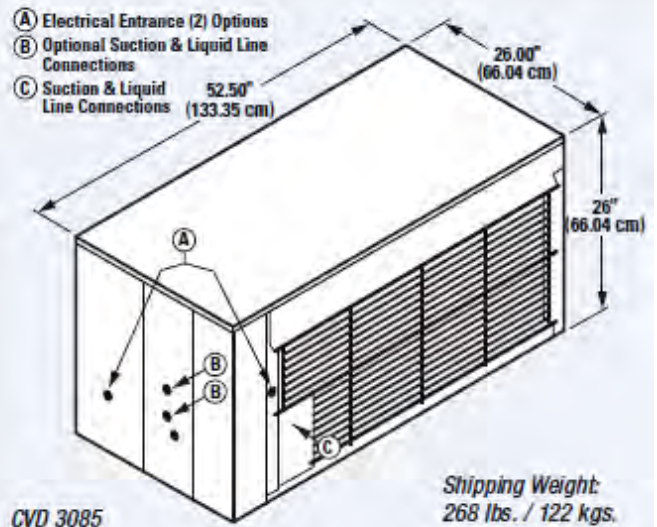
Height includes adjustable bin legs 6.00" to 8.00", (15.24 to 20.32 cm) set at 6.00" (15.24 cm). For comparison purposes multiply ARI capacity by 1.3 (30%) to arrive at approximate "Application Rating Capacity." *Depth at bin base, 42" including bin door.

Accessories

K-00391 Ice Deflectors (Set of 2)
K-00396 Bin Adapter for B-1100-00
K-00397 Bin Adapter for B-1400-00
B-1100-00 48" Bin only (without adapter)
B-1400-00 60" Bin only (without adapter)
K-00395 Bin Thermostat
Certified in Accordance with ARI Automatic Commercial Ice-Cube Machines (Batch-Type) Certification Program, which is based on ARI Standard 810
NOTE: S-3070 not for use on B-970 Bin.



Installation Note: Recommended installation clearance—Top/sides 8" (20.3 cm), back: 24" (61 cm), although 24" (61 cm) is recommended on all sides. Bin drain—located in exact center of bin.



SN-12 Countertop Nugget Ice Maker



SN-12 Countertop Nugget Ice Maker & Dispenser



SN-12



- Up to 325 lbs. (147 kgs.) daily ice production
- Only 16.25" (41.28 cm) wide by 24.00" (61.00 cm) deep by 35.00" (89.00 cm) tall without legs; legs sold separately
- Dimensions of nugget ice are approximately 3/10" x 3/10" x 1/2" (8 x 8 x 12 mm)
- SoftQube® nugget ice provides a softer, chewable texture while still providing maximum cooling effect
- Three dispense settings are standard: ice only, water only, or ice and water
- One-handed ice dispense. Simply place cup under chute and activate
- Two ice activation options: activation arm or touchless
- Dispense opening (10.50"/26.67 cm) from grate to chute maximizes clearance for tall containers

- Larger drain pan minimizes ice spillage
- Blue LED light provides dispense visibility for rooms with limited ambient light
- Water and drain connections in back or bottom of unit for flush mounting
- Manitowoc's patented cleaning technology manages the cleaning process from start to finish
- Warranty
2-year parts and labor coverage on all components. Additional 3-year (5-year total) parts coverage on ice machine compressor



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SN-12 Countertop Nugget Ice Maker & Dispenser

Space-Saving Designs **RF0388**

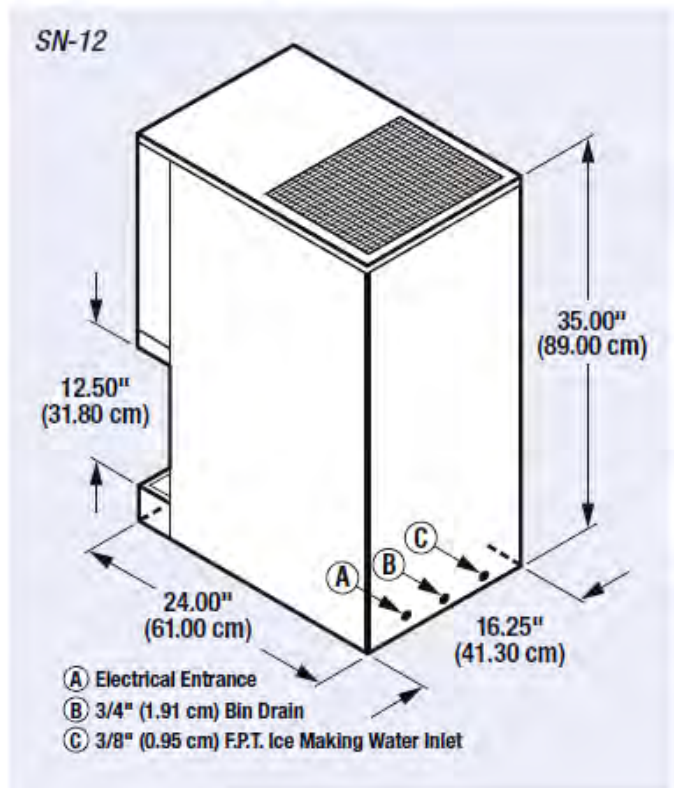


Height	35.00"
	89.00 cm
Width	16.25"
	41.30 cm
Depth	24.00"
	61.00 cm
Bin	12 lbs.
Storage	5.5 kgs.

* Height without legs.
Legs sold separately:
K-00345.

Model	Ice Shape	Ice Production 24 Hours				Power kWh/ 100 lbs. @ 90°/70°F
		70° Air/50°F Water		90° Air/70°F Water		
		lbs.	kgs.	lbs.	kgs.	
SN-12A	nugget	325	148	253	115	7.11
Water usage/100 lbs./45.4 kgs. of ice						
Potable Water: 12 gallons, 45.4 liters						

*A" following model number indicates "Air" condensing unit.
Test conditions are 90°F/32°C air, 70°F/21°C water, and 30 ± 3 psig water inlet pressure.



Installation Note -Minimum installation clearance- Top: 24" (60.96 cm); Sides: 8" (20.32 cm); Back: 5" (12.7 cm).

Ice Machine Electric

115/60/1. (230/50/1 also available.) 115/60/1 ice machines are factory pre-wired with a 6' (180 cm) power cord and NEMA 5-15P-plug configuration. 230/50/1 ice machines are factory pre-wired with a 6' (180 cm) power cord only, no plug is supplied.

Total Amps: Air-cooled: 10.3 amps.

Maximum fuse size: Air-cooled: 15 amps

HACR-type circuit breakers can be used in place of fuses.

Specifications

BTU Per Hour:

2,300 (average)

Compressor:

Nominal rating: 1/3 HP

Refrigerant: R-404A

Operating Limits:

• **Ambient Temperature**

Range:

45°-110°F (7.2°-43.3°C)

• **Water Temperature Range:**

45°-90°F (7.2°-32°C)

• **Water Pressure Ice Maker**

Water In:

Min. 20 psi (137.9 kPa)

Max. 80 psi (551.6 kPa)

Ice Shape

SoftQube® nugget ice is approximately 3/10" x 3/10" x 1/2" (8 x 8 x 12 mm) with a softer, chewable texture while still providing maximum cooling effect.



Manitowoc

Lever-activated or Touchless Dispensing*



SN-12A



SN-12AT

*Select at time of purchase.
K-00377 can be used to convert SN-12A from leveractivated to touchless sensing.

Air Flow Overhead View



Air in left, air out right, no side vents.

Front Access



Initiate ice, off, and clean operations with simple upfront selector switch. No need to remove front panel.

Arctic Pure Water Filtration



AR-10000

Over 60% of ice machine maintenance calls are water-related! Arctic Pure® water filters are designed exclusively for ice machine applications and will reduce these calls.

- Built-in scale inhibitor. Siliphos is designed into the filters to reduce scale build-up even under the hardest water conditions.
- Reduces chlorine taste and odor. All filtration and scale reduction material is NSF and/or FDA compliant and is engineered to reduce chlorine taste and odor. Ice looks and tastes better.
- Graded density carbon block filter. Provides superior dirt holding capacity and fine sediment reduction.
- Sanitary quick change housing. Design minimizes contamination of filter media during filter cartridge change-out. All filters are provided with automatic shut-off and pressure relief valves.



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Manitowoc Arctic Pure®



AR-PRE
Pre-filter, dirt and rust sediment reduction



AR-10000
1 micron particle reduction
14,000 gal. capacity
20 grams siliphos
Lbs. of ice per day 0-600



AR-20000
1 micron particle reduction
20,000 gal. capacity
40 grams siliphos
Lbs. of ice per day 601-1000



AR-40000
1 micron particle reduction
40,000 gal. capacity
80 grams siliphos
Lbs. of ice per day 1001-2,500

Ice Machine	Model			
	AR-PRE	AR-10000	AR-20000	AR-40000
QM30	◆	◆		
QM45	◆	◆		
Q-130	◆	◆		
Q-210	◆	◆		
Q-270	◆	◆		
S-300	◆	◆		
S-322	◆	◆		
S-422	◆	◆		
S-450	◆	◆		
S-500	◆	◆		
S-600	◆	◆		
S-850	◆		◆	
S-1000	◆		◆	
S-1200	◆			◆
S-1400	◆			◆
S-1600	◆			◆
S-1800	◆			◆
Q-Dual	◆			
IB-600	◆	◆		
IB-800	◆		◆	
IB-1000	◆		◆	
QF-400	◆	◆		
QC-700	◆		◆	
QF-800	◆		◆	
QF-2300	◆			◆

Specifications

Maximum operating pressure:

25–125 psi (1.7–8.6 bar)

Maximum operating temperature:

35°–100°F (1.7°–38°C)

Flow Rate: AR-10000 0.75 gpm (2.84 LPM)

AR-20000 0.75 gpm (2.84 LPM)

AR-40000 1.5 gpm (5.68 LPM)

Cartridge Housing Material:

Talc Filled Polypropylene

Primary Filter - 1 micron particle reduction.

Filter media is graded density carbon block containing Siliphos scale inhibitor, which holds dissolved minerals in suspension. (AR-10000/20 grams siliphos, AR-20000/40 grams siliphos, AR-40000/80 grams siliphos – 40 grams per cartridge).

Inlet/Outlet fittings - 3/8" John Guest

Optional Pre-Filter – An optional pre-filter is recommended for ice machine installations in areas with high particulate matter (dirty water). The pre-filter extends the filtration efficiency and working life of the primary filter cartridge where this condition exists. The Manitowoc pre-filter is a cost-efficient solution to the particulate matter (dirty water) problem because pre-filter replacements are more economical than a primary filter cartridge.

Replacement Cartridges:

Pre-FilterK-00337

Primary Filter AR-10000K-00338

AR-20000/40000K-00339

To insure maximum filtration efficiency, replace the primary filter cartridge every 6 months. A filter gauge will indicate if replacement is necessary prior to six months usage (below 20 psig).

Important notice: Read this performance sheet and compare the capabilities of this unit with your actual water treatment needs. It is recommended that you have your water supply tested to determine your actual water treatment needs before purchasing a water treatment unit.

Warning: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfections before or after the unit.

Caution: The filter must be protected from freezing. Failure to do so may result in cracking of the filter housing and water leakage.

Note: Before using the Arctic Pure on non-Manitowoc machines consult the ice machine manufacturer for water supply usage requirements.

Warranty: 3-Year parts and labor warranty on head, shroud, hardware, and mounting assembly (water filter cartridge not included).

Dimensions

Model	Dimensions						Mtg. Holes		Weight	
	Height		Width		Depth		Center to Center		lbs.	kgs.
	Inches	cm	Inches	cm	Inches	cm	Inches	cm		
AR-Pre	17.09	43.41	6.72	17.10	4.00	10.16	1.50	3.81	4	1.81
AR-10000	17.09	43.41	5.72	14.50	4.00	10.16	1.50	3.81	5	1.81
AR-20000	21.34	54.2	5.72	14.50	4.00	10.16	1.50	3.81	5	2.27
AR-40000	21.23	54.1	15.88	40	5.00	12.7	Top	29.2	12	5.44
							Bottom				9.75	24.8



AR-PRE	Nominal particulate reductions Class IV.
AR-10000 AR-20000 AR-40000	Chlorine reduction taste and odor reduction Class I.

Visit www.nsf.org for listed product claims.

British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay

Automatic Cleaning System



Manitowoc[®]

AuCS[®] Automatic Cleaning System



AuCS – SI (Internal Mounting)



AuCS – SO (External Mounting)

An efficient, dependable, and affordable accessory that schedules and performs routine ice machine cleaning automatically. The innovative AuCS[®] accessory virtually eliminates the need to have a service technician perform manual cleaning procedures on the water distribution system of your Manitowoc ice machine.

It is a known fact that regularly scheduled preventative maintenance (cleaning) reduces the total operating cost of any ice machine. With AuCS, you simply select the cleaning frequency (2, 4, or 12 weeks); AuCS does the rest...automatically. AuCS is also affordable, as the entire system costs less than the expense of 3 manual cleanings. AuCS-SI and AuCS-SO are designed for use with only Manitowoc S-Series ice machines.

Cleaning or Sanitizing: The AuCS accessory can dispense either cleaner or sanitizer. It can not dispense both at the same time. Refer to the Installation Use and Care Manual supplied with the AuCS accessory to determine the type of solution needed and proper procedure for changing solutions. Use only Manitowoc ice machine cleaner or sanitizer.

- Cleaner is used to remove and control build up of lime scale or other mineral deposits.
- Sanitizer is used to control algae (slime) and other air borne bacteria (yeast).

AuCS – SI

- Internally mounted on S-Series Manitowoc ice machines.
- Electricity drawn directly from ice machine.
- Can be ordered separately or installed at the factory for no additional cost.

AuCS – SO

- Electricity drawn from ice machine directly.
- Exterior finish is stainless steel.
- Only 12" (30.48 cm) wide, 3.43" (8.7 cm) deep, 12.12" (30.78 cm) high.

Warranty

- 3-year warranty covering all parts and labor from the date of original installation.



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Manitowoc AuCS® Accessory

Compatibility: The S-Model AuCS (AuCS – SI and AuCS – SO) accessory can be used only on S-Series ice machines.

AuCS-SI Installation: The AuCS-SI mounts internally in S-Series ice machines.

S-Series ice machines can be ordered direct from the factory with the AuCS-SI installed. If the AuCS-SI is not factory installed, a trained and qualified technician must perform installation. Note: Line voltage is obtained from the ice machine. Refer to the Model/Serial Plate on the ice machine and the AuCS-SI to verify both voltages are the same.



AuCS-SO
S-300
S-322
S-422
S-1470C
S-1870C
S-2070C

AuCS-SO Installation: The AuCS-SO is mounted on the wall near the ice machine or on the bin with the included bracket and hardware. Note: Line voltage is obtained from the ice machine. Refer to the Model/Serial Plate on the ice machine and the AuCS-SO to verify both voltages are the same.

AuCS-SI
S-450
through
S-1800



Setting Run Frequency: AuCS is set to run once approximately every 2 weeks. For less frequent cleanings, set selector switch as needed:

WEEKS	CYCLES
2	1,120
4	2,240
12	6,720

Automatic Operation: Automatic cleaning initiated by the AuCS system takes approximately 30 minutes to complete. The cleaning procedure includes a 10-minute cleaning cycle followed by 6 rinse cycles.

Sequence of Operation:

Cleaning or Sanitizing Cycle

The cleaner or sanitizer is dispensed from the AuCS accessory for 10-20 seconds during the beginning of the cycle. The water pump circulates water over the evaporator for 10 minutes. After 10 minutes of cleaning, the water dump valve energizes for 45 seconds to dump the wash water down the drain.

Rinse Cycles

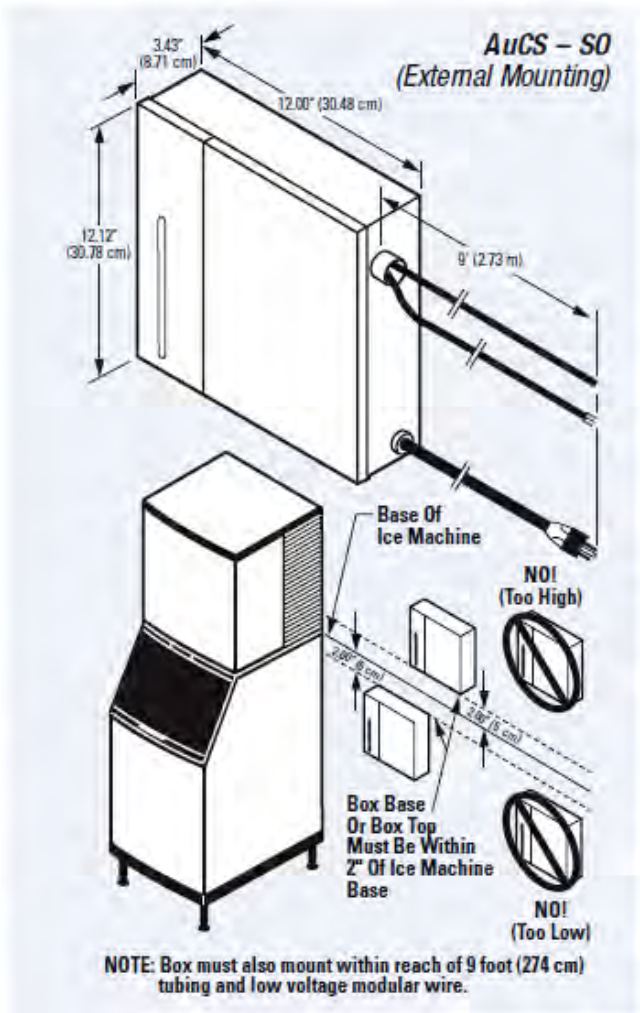
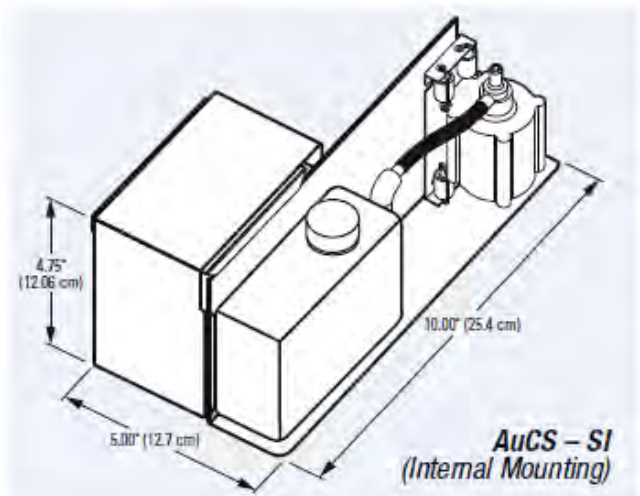
The entire rinse cycle is repeated 6 times. The water pump circulates water over the evaporator for 90 seconds. The water dump valve energizes to dump the rinse water down the drain for 45 seconds.

Electric: 115/60/1. 208-230/50/60/1 also available for both SI and SO models.

Total Amps: 0.3

Max Fuse Size: 15 amps

Replenishment: AuCS cleaning or sanitizing fluid is provided in either 16 oz. replacement bottles or 1 gallon containers for refilling.



Manitowoc



Manitowoc®

K-00146 Convenient Ice Bagger



Bag ice on premise to maximize your net profit. Ideal for all bagged-ice retailers including grocery stores, convenience stores, marinas, and campgrounds.

- Durable stainless steel construction withstands frequent use and resists corrosion.
- Large chute quickly handles high volumes of ice while minimizing spillage. Removable for easy cleaning.
- Portable bagger occupies minimal floor space and stores easily. Bagger measures 10.25" (26.03 cm) wide, 13.00" (33.02 cm) deep, 28.75" (73.02 cm) high*.

*Attachment to B-400 bin necessitates use of K-00144 (12.00" (30.48 cm) adjustable) bin legs.

- Multi-position bracket permits the bagger to be placed in the most convenient position. Left and right positions accommodate right-handed and left-handed users. Bagger can also stand by itself on rubber bumpers that protect floor from scratching.
- Bagger is easy to install and slips quickly over frame of bin door opening.
- Twist-tie closure is easy and quickly seals bag tight.

- K-00146 assembly includes bagger, 250 twist ties, and 250 ice bags, each 11" (27.94 cm) x 18.5" (46.99 cm) with a maximum fill capacity to 8 lbs. (3.6 kgs.).
- K-00068 replacement bag kit includes 4 wickets of 250 bags each and 1,000 twist ties. Manitowoc offers ice cube machines, ice cube dispensers, and ice storage bins. Production capacities range from 65 lbs. (30 kgs.) to over 1,880 lbs. (854 kgs.) of ice per day.



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Guardian® Slime Inhibitor



Manitowoc®



Slime is a leading cause of ice machine breakdowns and biological growth is a health concern.

Manitowoc's exclusive Guardian® Accessory is patented technology that releases chlorine dioxide on a controlled basis to inhibit the growth of bacteria and fungi that form slime and cause odors in the food zone of ice machines.



It is not uncommon to perform a monthly manual cleaning of an ice machine to remove slime. Professional cleaning will typically cost \$160 on average. Manitowoc's Guardian can extend slime cleaning effectiveness by up to six times the normal frequency... six months instead of one. The Guardian sachet housing is built into every S-Series ice machine.

Sachet Refill Features

- EPA registered as a slime inhibitor; FDA approved, and NSF listed to standard 12
- The sachet active ingredient is contained in a breathable sachet and packaged within a foil outer-wrap
- Ready to use formula. No mixing required.

Simply remove sachet packet from foil outer-wrap and insert into Guardian holder

- No moving parts; no mechanical parts
- Will not affect ice produced or alter taste of beverages served



Without Guardian

- Will not harm plastic or stainless steel
- Recommended change out frequency – 30-day replacement for maximum slime inhibitor effectiveness



With Guardian

Ice Machine Model (S-Series)	200 Gram Ice Sentry Sachet
300, 322, 422, 450, 500	Use 1
600, 850, 1000, 1200, 1400, 1600, 1800	Use 1 or 2*

*Although one sachet is recommended, extreme conditions may necessitate using two sachet packets.



Guardian Ice Sentry Sachet Refill - K-00206

Sachet refill size 200 gram. Sachet packet(s) requires replacement every 30 days.

Precautionary Statements

- Hazardous to humans and domestic animals. Caution: Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.
- Environmental Hazards - This product is toxic to fish and aquatic organisms.
- Storage and Disposal - Do not contaminate water, food or feed by storage or disposal. Store in a cool, dry, well-ventilated area.
- Physical or Chemical Hazards - Do not mix with acids or chlorine. Do not store at elevated temperatures. Discard used sachet in trash.
- Not for use in conjunction with rust and stain water treatments.

Initial Installation

When installing a Guardian accessory for the first time, thoroughly clean and sanitize the ice machine and bin/dispenser following Manitowoc's cleaning instructions. Note: The Guardian will not control



mineral or other water borne build-up. Mineral build-up must be removed as often as necessary to ensure trouble-free operation of the ice machine. Use Instructions - Replacing Sachet

1. Swing open front door panel of ice machine.
2. Remove and discard spent sachet packets.
3. Remove sachet from foil package and install into holder. Removing the foil packet allows the moisture in the air to activate the packet contents.
4. Close front door panel of ice machine.
5. Discard used sachet in trash.

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British Columbia

Alberta

Saskatchewan

Manitoba

Thunderbay



Servend's SV Series Ice/Beverage Dispensers

Ice / Beverage Dispenser

Optional top-mounted Manitowoc ice beverage ice machine offers enhanced cleanability and improved sanitation procedures for the ice storage area.

Accessible front bin extension allows for easier manual ice filling.

Flomatic 464 beverage valves improve drink quality and presentation. Fewer parts simplify cleaning.



SV-250 Ice/Beverage Dispenser with Manitowoc IB ice machine

Front serviceability of all major components.

Large "attention grabbing" fountain graphics.

Maximum beverage cooling, "Hard Plumbed" syrup and water lines.

Durable stainless steel construction exterior, bin and bin liner.

Patented technology Rocking Chute™ ice dispense reduces ice spillage.

Flex Manifold makes carbonated or noncarbonated flavor changes possible in minutes.

MODEL	Lbs/Ice storage	# of Valves	Width	Depth	Height
SV-150	150 lbs	6	23"	31"	35"
SV-175	175 lbs	8	25"	31"	35"
SV-200	200 lbs	8-10	30"	31"	35"
SV-250	250 lbs	8-10	30"	31"	41"



Servend's S Series Ice/Beverage Dispensers



S-150 • S-200 • S-250
Ice Dispensers



S-150 with
water valve
option



S-200



-250 with
water valve
option and
Manitowoc
S450 ice
machine

Servend's S-Series ice dispensers feature a no-hassle one-piece structural base, strengthened drive train, and modular design, all resulting in a more durable ice dispenser. Surround view™ merchandiser with attractive “ice” graphics draws customer attention.

Manual fill or top-mount with compatible ice machines.
Contact MBE for adapter kit requirements for top-mounted ice machine applications.

Options

Flomatic water valve. Side splash panels. Flomatic 424 and 464 beverage valves, available in sanitary lever, push button, portion control and autofill valve.

MODEL	Lbs/Ice storage	# of Valves	Width	Depth	Height
S-150	150 lbs	6	23 "	31 "	35 "
S-200	200 lbs	8-10	30 "	31 "	35 "
S-250	250 lbs	8-10	30 "	31 "	41 "

Single and Double Door Upright Bins

- Poly lined
- All Stainless steel Interior & Exterior
- Stainless Steel Front and Sides
- ABS Top Closures for Ice Makers Inclusive in Price on all Orders (reinforcement extra)
- Maximum capacity



VDM Coolers

Glass Door Coolers



- Electronic Temperature Control
- Electronic motors
- LED Perimeter lighting
- 2" Cyclopentane Insulation HFC free
- Low maintenance Condenser
- Energy Efficient Glass Doors with Argon Gas and low-e film
- 24 gauge pre-printed sheet
- ABS Injected Plastic Evaporator
- Front Decal
- Highly Resistant Vacuum Plastic Grill
- ABS Intergrated Pocket Handle

ACCESORIES :

- Flat Shelves, Highly Resistant to Corrosion
- Wall Separators
- Self Closing Door System



Glass Door Coolers

Model	doors	hp	# shelves	Sizes (inches) W x D x H	Weight lbs	List Price
VR-06	1	1/8	3	21 x 25.6 x 36.1	132	1450.00
VR-10	1	1/6	3	24 7/8 x 22.5 x 53.5	181	2100.00
VR-12	1	1/6	4	24 7/8x 22.5 x 62.5	185	2190.00
G3-13	1	1/6	3	29.5 x 27.5 x 59	190	2190.00
G3-19	1	1/4	5	29.5X27.5X79	254	2530.00
G3D-26	2	-	8	40X27.5X80	324	2990.00
G3D-42	2	3/4	10	59X27.5X80	529	4380.00
G3T-72	3	1/3X2	15	79X34X79	816	5940.00

Sliding Glass Door Coolers



HABCO quality and value

- Habco exclusive, bottom mounted, cassette refrigeration system exchange able in less than 5 minutes from front without opening the door allows ease of maintenance, service and upgrade.
- Maximum cold space in an energy efficient compact footprint
- Completely front breathing, the cabinet can be fully enclosed at rear, top, bottom and both sides saving valuable space.
- Exclusive lint tolerant design with four fins per inch, maximizes air-flow over the compressor and minimizes build up of dust and lint.
- Coated evaporator cooling coil eliminates the potential for corrosion and system failures.
- Exclusive automatic condensate control system is stainless and maintenance free.
- Self closing/swing doors feature easy mount door reversal system, hold open position, and spring back protection.
- High efficiency insulated safety glass doors are 30% more efficient than triple pane, and 22% lighter maximizing hardware life.



Model	Width	Height	Depth	Cu ft	# Shelves	HP	Ship Weight	List Price
SE18M	23.88" 60.64cm	78.00" 198.12cm	24.00" 60.96cm	17.2	3	1/4 .186 kw	230 lbs 104kg	3346.00

Model	Width	Height	Depth	Cu ft	# Shelves	HP	Ship Weight	List Price
SE40e	47-1/2" 120cm	72-5/8" 184cm	31" 78.7cm	40	6	1/3 .246 kw	431 lbs 191 kg	4622.00

Signature
EDITION

CUus
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Listed



ANTHONY INTERNATIONAL



Merchandising Systems

Founded in 1960, the Anthony product line has grown to include a variety of energy-efficient doors & frames, sliders, specialty shelving, custom glass, viewing windows and the very latest in lighting technology !

Gravity Flow Shelving

GFM and GFS Standard Pkgs

- Shelves
 - Adjustable Lane Dividers
 - Plastic Shelf Glides
 - Adjustable Front Product Stop
- Black or White Finish

Options :

- PVC Smooth Rollers for Cases and Cartons
- Grooved Rollers for High Tech Automatic Merchandising
- Floor Guard
- Milk Product Stop



Continental

Worktop Refrigerators

- Safe R-134a Refrigerant for Refrigerators
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingable Doors
- 5" Casters

Worktop Refrigerators						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27	1620	1/5	115	27.5x30x35	165	2843.00
SW32	1620	1/5	115	32x30x35	221	3532.00
SW36	1620	1/5	115	36x30x35	239	3871.00
SW48	1620	1/5	115	48x30x35	248	4221.00
SW60	1940	1/4	115	60x30x35	284	4707.00
SW72	1940	1/4	115	72x30x35	318	5430.00



Worktop refrigerators with 6" backsplash						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-BS	1620	1/5	115	27.5x30x35	170	2917.00
SW32-BS	1620	1/5	115	32x30x35	221	3632.00
SW36-BS	1620	1/5	115	36x30x35	239	3996.00
SW48-BS	1620	1/5	115	48x30x35	258	4347.00
SW60-BS	1940	1/4	115	60x30x35	297	4828.00
SW72-BS	1940	1/4	115	72x30x35	334	5520.00



- BTU/HR Rating @ +25 F, 90 Amb



Worktop Display refrigerators						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-GD	1620	1/5	115	27.5x30x35	180	3460.00
SW48-GD	1940	1/4	115	48x30x35	265	5509.00
SW60-GD	1940	1/4	115	60x30x35	300	6045.00
SW72-GD	2050	1/3	115	72x30x35	385	7282.00

Worktop Display refrigerators-Sliding Glass Doors						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW48-SGD	1940	1/4	115	48x30x35	265	6055.00
SW60-SGD	1940	1/4	115	60x30x35	300	6590.00
SW72-SGD	2050	1/3	115	72x30x35	385	7829.00



DIAMOND
Ice Systems Ltd.

<http://www.diamondicesystems.com>

Worktop Freezers (0F)

Continental

- Safe R-404a Refrigerant for Refrigerators
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded,Self Closing Door,Magnetic Snap in Gasket
- Heavy Duty,Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top,Aluminum End Panels,Case Back and interior
- Non -corrosive,Plasticized Fin Evaporator Coil
- Completely Enclosed,Vented and Removable Case Back
- Automatic,Engery Saving,Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingeable Doors
- 5" Casters

Worktop Freezers						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SWF27	1340	1/3	115	27.5x30x35	165	3344.00
SWF32	1340	1/3	115	32x30x35	221	4113.00
SWF36	1340	1/3	115	36x30x35	239	4374.00
SWF48	2180	1/2	115	48x30x35	248	4881.00
SWF60	2180	1/2	115	60x30x35	284	6030.00



Worktop Freezers with 6" Back Splash						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SWF27-BS	1340	1/3	115	27.5x30x35	170	3462.00
SWF32-BS	1340	1/3	115	32x30x35	221	4212.00
SWF36-BS	1340	1/3	115	36x30x35	239	4577.00
SWF48-BS	2180	1/2	115	48x30x35	258	5004.00
SWF60-BS	2180	1/2	115	60x30x35	297	6192.00



Worktop Display Freezers-Glass Doors						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-GD	1340	1/3	115	27.5x30x35	180	4363.00

- BTU/HR Rating @ - 15 F, 90 Amb

Continental

Front Breathers Worktop Refrigerators

- Safe R-134a Refrigerant for Refrigerators
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingable Doors
- 3 5/8" Casters

Front Breather Worktop Refrigerators						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-FB	1620	1/5	115	27.5x30x35	165	2900.00
SW32-FB	1620	1/5	115	32x30x35	221	3604.00
SW36-FB	1620	1/5	115	36x30x35	239	3795.00
SW48-FB	1620	1/5	115	48x30x35	248	4306.00
SW60-FB	1940	1/4	115	60x30x35	284	4803.00
SW72-FB	1940	1/4	115	72x30x35	318	5540.00



Front Breather Worktop Refrigerators with 6" Backsplash						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-BS-FB	1620	1/5	115	27.5x30x35	170	2974.00
SW32-BS-FB	1620	1/5	115	32x30x35	221	3703.00
SW36-BS-FB	1620	1/5	115	36x30x35	239	3996.00
SW48-BS-FB	1620	1/5	115	48x30x35	258	4436.00
SW60-BS-FB	1940	1/4	115	60x30x35	297	4929.00
SW72-BS-FB	1940	1/4	115	72x30x35	334	5632.00



- BTU/HR Rating @ +25 F, 90 Amb

Front Breather Worktop Display refrigerators						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-GD-FB	1620	1/5	115	27.5x30x35	180	3531.00
SW48-GD-FB	1620	1/5	115	48x30x35	265	5620.00
SW60-GD-FB	1940	1/4	115	60x30x35	300	6165.00
SW72-GD-FB	1940	1/4	115	72x30x35	385	7391.00

Front Breathers are a Unique field assembled, bottom mounted ventilation system designed to allow cabinets to be flush against a wall or built into a counter to conserve space.



Front Breathers Worktop Freezers (0 F)

Continental

- Safe R-404a Refrigerant for Refrigerators
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non -corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingable Doors
- 3 5/8" Casters
- Auto electric defrost

Front Breather Worktop Freezer						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SWF27-FB	1000	1/4	115	27.5x30x35	165	3411.00
SWF32-FB	1340	1/3	115	32x30x35	221	4194.00
SWF36-FB	1340	1/3	115	36x30x35	239	4385.00
SWF48-FB	1340	1/3	115	48x30x35	248	4978.00
SWF60-FB	1340	1/3	115	60x30x35	284	6151.00



Front Breather Worktop Freezer with 6" Backsplash						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-BS-FB	1620	1/4	115	27.5x30x35	170	3532.00
SW32-BS-FB	1620	1/3	115	32x30x35	221	4293.00
SW36-BS-FB	1620	1/3	115	36x30x35	239	4587.00
SW48-BS-FB	1620	1/3	115	48x30x35	258	5107.00
SW60-BS-FB	1940	1/3	115	60x30x35	297	6318.00



Front Breather Worktop Display Freezer						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-GD-FB	1340	1/3	115	27.5x30x35	180	4452.00

- BTU/HR Rating @ -15 F, 90 Amb

Front Breathers are a Unique field assembled, bottom mounted ventilation system designed to allow cabinets to be flush against a wall or built into a counter to conserve space.

Continental

Undercounter Refrigerators And Freezers

- Safe R-134a Refrigerant for Refrigerators,R-404a for Freezers
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded,Self Closing Door,Magnetic Snap in Gasket
- Heavy Duty,Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top,Aluminum End Panels,Case Back and interior
- Non -corrosive,Plasticized Fin Evaporator Coil
- Completely Enclosed,Vented and Removable Case Back
- Automatic,Engery Saving,Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingeable Doors
- 3 5/8" Casters



- BTU/HR Rating @ +25 F, 90 Amb

Undercounter Refrigerators						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
UC27	1620	1/5	115	27.5x30x35	165	2900.00
UC32	1620	1/5	115	32x30x35	221	3604.00
UC36	1620	1/5	115	36x30x35	239	3795.00
UC48	1620	1/5	115	48x30x35	248	4306.00
UC60	1940	1/4	115	60x30x35	284	4803.00
UC72	1940	1/4	115	72x30x35	318	5540.00

- BTU/HR Rating @ -15 F, 90 Amb

Undercounter Freezers						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
UCF27	1620	1/4	115	27.5x30x35	165	3411.00
UCF32	1620	1/3	115	32x30x35	221	4194.00
UCF36	1620	1/3	115	36x30x35	239	4385.00
UCF48	1620	1/3	115	48x30x35	248	4978.00
UCF60	1940	1/3	115	60x30x35	284	6151.00



Undercounter Refrigerators and Freezers Bases Continental

- Front Breathing Ventilation System
- Safe R-134a Refrigerant
- Easily Serviceable, Front Slide-out Condensing Unit
- High density non-CFC Polyurethane Foamed in place Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non -corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingeable Doors
- 3 5/8" Swivel Casters



- BTU/HR Rating @ +25 F, 90 Amb

Front Breathing Undercounter Refrigerated Bases						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CURB42	1000	1/4	115	42X35X32	335	4717.00
CURB67	1340	1/3	115	67X35X32	470	5768.00
CURB92	2180	1/2	115	92X35X32	580	7475.00
CURB117	3800	1/2	115	117X35X32	705	10305.00

- BTU/HR Rating @ -15 F, 90 Amb Sizes may not be exact

Front Breathing Undercounter Freezer Bases						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CUFB42	1000	1/4	115	42x35x41	335	6847.00
CUFB67	1340	1/3	115	67x35x41	470	7478.00
CUFB92	2180	1/2	115	92x35x41	580	10655.00

Sizes may not be exact

Continental Sandwich Units-Standard Tops 12" Cutting Board

- Unique Airflow Distribution Allows Pan Product to Maintain 33 - 41 F is listed with NSF to be in Compliance with Standard for Preparation Units
- Deep Nylon Cutting Board
- Safe R-134a Refrigerant
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingable Doors
- 5" Casters



- BTU/HR Rating @ +25 F, 90 Amb

Sandwich Units-12" Cutting Boards Refrigerators							
Model & # Pans	Capacity Btu/hr	# STD Size Pans	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-8	1620	8	1/5	115	27.5x30x43	180	3247.00
SW32-8	1620	8	1/5	115	32x30x43	236	3863.00
SW36-8	1620	8	1/5	115	36x30x43	254	4426.00
SW36-10	1620	10	1/5	115	36x30x43	254	4453.00
SW48-8	1620	8	1/5	115	48x30x43	267	4479.00
SW48-10	1620	10	1/5	115	48x30x43	268	4898.00
SW48-12	1620	12	1/4	115	48X30X43	270	4935.00
SW60-8	1940	8	1/4	115	60X30X43	309	5103.00
SW60-12	1940	12	1/4	115	60X30X43	311	5214.00
SW60-16	1940	16	1/4	115	60X30X43	315	5261.00
SW72-12	1940	12	1/4	115	72X30X43	385	5976.00
SW72-18	1940	18	1/4	115	72X30X43	389	5999.00

Sandwich Units-Standard Tops 12" Cutting Board **Continental**

Front Breathing

- Unique Airflow Distribution Allows Pan Product to Maintain 33 - 41 F is listed with NSF to be in Compliance with Standard for Preparation Units
- Deep Nylon Cutting Board
- Safe R-134a Refrigerant
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded,Self Closing Door,Magnetic Snap in Gasket
- Heavy Duty,Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top,Aluminum End Panels,Case Back and interior
- Non -corrosive,Plasticized Fin Evaporator Coil
- Completely Enclosed,Vented and Removable Case Back
- Automatic,Engery Saving,Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingeable Doors
- 3 5/8" Casters



- BTU/HR Rating @ +25 F, 90 Amb

Front Breathers Sandwich Units-12" Cutting Boards Refrigerators							
Model & # Pans	Capacity Btu/hr	# STD Size Pans	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-8-FB	1620	8	1/5	115	27.5x30x43	180	3311.00
SW32-8-FB	1620	8	1/5	115	32x30x43	236	3940.00
SW36-8-FB	1620	8	1/5	115	36x30x43	254	4514.00
SW36-10-FB	1620	10	1/5	115	36x30x43	254	4542.00
SW48-8-FB	1620	8	1/5	115	48x30x43	267	4571.00
SW48-10-FB	1620	10	1/5	115	48x30x43	268	4996.00
SW48-12-FB	1620	12	1/4	115	48X30X43	270	5035.00
SW60-8-FB	1940	8	1/4	115	60X30X43	309	5205.00
SW60-12-FB	1940	12	1/4	115	60X30X43	311	5318.00
SW60-16-FB	1940	16	1/4	115	60X30X43	315	5367.00
SW72-12-FB	1940	12	1/4	115	72X30X43	385	6097.00
SW72-18-FB	1940	18	1/4	115	72X30X43	389	6118.00

Front Breathers are a Unique field assembled, bottom mounted ventilation system designed to allow cabinets to be flush against a wall or built into a counter to conserve space.

Continental Sandwich Units-Standard Tops 10" Cutting Board

- Unique Airflow Distribution Allows Pan Product to Maintain 33 - 41 F is listed with NSF to be in Compliance with Standard for Preparation Units
- Deep Nylon Cutting Board
- Safe R-134a Refrigerant
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non -corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingable Doors
- 5" Casters



- BTU/HR Rating @ +25 F, 90 Amb

Sandwich Units-10" Cutting Boards Refrigerators							
Model & # Pans	Capacity Btu/hr	# STD Size Pans	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-12M	1620	12	1/5	115	27.5x34x43	188	3865.00
SW32-12M	1620	12	1/5	115	32x34x43	236	4472.00
SW36-12M	1620	12	1/5	115	36x34x43	254	5082.00
SW36-15M	1620	15	1/5	115	36x34x43	254	5109.00
SW48-12M	1620	12	1/5	115	48x34x43	282	5527.00
SW48-18M	1620	18	1/5	115	48x34x43	285	5639.00
SW48-12M	1620	12	1/4	115	48X34X43	319	5869.00
SW60-18M	1940	18	1/4	115	60X34X43	322	5926.00
SW60-24M	1940	24	1/4	115	60X34X43	330	6201.00
SW60-18M	1940	18	1/4	115	60X34X43	398	6810.00
SW72-27M	1940	27	1/4	115	72X34X43	414	7176.00
SW72-30M	1940	30	1/4	115	72X34X43	420	7219.00

Sandwich Units-Standard Tops 10" Cutting Board Continental

Front Breathing

- Unique Airflow Distribution Allows Pan Product to Maintain 33 - 41 F is listed with NSF to be in Compliance with Standard for Preparation Units
- Deep Nylon Cutting Board
- Safe R-134a Refrigerant
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingable Doors
- 3 5/8" Casters



- BTU/HR Rating @ +25 F, 90 Amb

Front Breathers Sandwich Units-10" Cutting Boards Refrigerators							
Model & # Pans	Capacity Btu/hr	# STD Size Pans	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-12M-FB	1620	12	1/5	115	27.5x34x41	188	3942.00
SW32-12M-FB	1620	12	1/5	115	32x34x41	236	4561.00
SW36-12M-FB	1620	12	1/5	115	36x34x41	254	5183.00
SW36-15M-FB	1620	15	1/5	115	36x34x41	254	5211.00
SW48-12M-FB	1620	12	1/5	115	48x34x41	282	5639.00
SW48-18M-FB	1620	18	1/5	115	48x34x41	285	5750.00
SW48-12M-FB	1620	12	1/4	115	48X34X41	319	5987.00
SW60-18M-FB	1940	18	1/4	115	60X34X41	322	6046.00
SW60-24M-FB	1940	24	1/4	115	60X34X41	330	6323.00
SW60-18M-FB	1940	18	1/4	115	60X34X41	398	6946.00
SW72-27M-FB	1940	27	1/4	115	72X34X41	414	7319.00
SW72-30M-FB	1940	30	1/4	115	72X34X41	420	7363.00

Front Breathers are a Unique field assembled, bottom mounted ventilation system designed to allow cabinets to be flush against a wall or built into a counter to conserve space.

Continental Sandwich Units-Standard Tops 19" Cutting Tops

- Unique Airflow Distribution Allows Pan Product to Maintain 33 - 41 F is listed with NSF to be in Compliance with Standard for Preparation Units
- Deep Nylon Cutting Board
- Safe R-134a Refrigerant
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded,Self Closing Door,Magnetic Snap in Gasket
- Heavy Duty,Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top,Aluminum End Panels,Case Back and interior
- Non -corrosive,Plasticized Fin Evaporator Coil
- Completely Enclosed,Vented and Removable Case Back
- Automatic,Engery Saving,Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingeable Doors
- 5" Casters



- BTU/HR Rating @ +25 F, 90 Amb

Sandwich Units-19" Cutting Boards Refrigerators							
Model & # Pans	Capacity Btu/hr	# STD Size Pans	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-8C	1620	8	1/5	115	27.5x30x43	180	3627.00
SW32-8C	1620	8	1/5	115	32x30x43	236	4221.00
SW36-8C	1620	8	1/5	115	36x30x43	254	4784.00
SW36-10C	1620	10	1/5	115	36x30x43	254	4811.00
SW48-8C	1620	8	1/5	115	48x30x43	267	5237.00
SW48-10C	1620	10	1/5	115	48x30x43	268	5272.00
SW48-12C	1620	12	1/4	115	48X30X43	270	5315.00
SW60-8C	1940	8	1/4	115	60X30X43	309	5789.00
SW60-12C	1940	12	1/4	115	60X30X43	311	5861.00
SW60-16C	1940	16	1/4	115	60X30X43	315	5917.00
SW72-12C	1940	12	1/4	115	72X30X43	385	6552.00
SW72-18C	1940	18	1/4	115	72X30X43	389	6637.00



Sandwich Units-Standard Top 19" Cutting Top

Front Breathing

Continental

- Unique Airflow Distribution Allows Pan Product to Maintain 33 - 41 F is listed with NSF to be in Compliance with Standard for Preparation Units
- Deep Nylon Cutting Board
- Safe R-134a Refrigerant
- Easily Serviceable Back Mounted Compressor
- 2" Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non -corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingable Doors
- 3 5/8" Casters



- BTU/HR Rating @ +25 F, 90 Amb

Front Breathers Sandwich Units-12" Cutting Boards Refrigerators							
Model & # Pans	Capacity Btu/hr	# STD Size Pans	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
SW27-8C-FB	1620	8	1/5	115	27.5x30x43	180	3698.00
SW32-8C-FB	1620	8	1/5	115	32x30x43	236	4304.00
SW36-8C-FB	1620	8	1/5	115	36x30x43	254	4879.00
SW36-10C-FB	1620	10	1/5	115	36x30x43	254	4906.00
SW48-8C-FB	1620	8	1/5	115	48x30x43	267	5344.00
SW48-10C-FB	1620	10	1/5	115	48x30x43	268	5376.00
SW48-12C-FB	1620	12	1/4	115	48X30X43	270	5420.00
SW60-8C-FB	1940	8	1/4	115	60X30X43	309	5907.00
SW60-12C-FB	1940	12	1/4	115	60X30X43	311	5978.00
SW60-16C-FB	1940	16	1/4	115	60X30X43	315	6036.00
SW72-12C-FB	1940	12	1/4	115	72X30X43	385	6681.00
SW72-18C-FB	1940	18	1/4	115	72X30X43	389	6768.00

Front Breathers are a Unique field assembled, bottom mounted ventilation system designed to allow cabinets to be flush against a wall or built into a counter to conserve space.

Continental

Refrigerated Bases

- Safe R-134a Refrigerant for Refrigerators, R-134a for Freezers
- Easily Serviceable Back Mounted Compressor
- Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingable Doors
- 5" Swivel Casters



- BTU/HR Rating @ +25 F, 90 Amb

Refrigerated Bases						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CRB42	1600	1/4	115	42X35X35	335	4717.00
CRB67	2300	1/4	115	67X35X35	470	5768.00
CRB92	3100	1/2	115	92X35X35	580	7475.00
CRB117	3800	1/2	115	117X35X35	705	10305.00

Sizes may not be exact



- BTU/HR Rating @ +25 F, 90 Amb

Refrigerated Bases with 6" Backsplash						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CRB42-BS	1600	1/4	115	42x35x41	345	4792.00
CRB67-BS	2300	1/3	115	67x35x41	485	5947.00
CRB92-BS	3100	1/2	115	92x35x41	595	8711.00
CRB117-BS	3800	1/2	115	117x35x41	715	10637.00

Sizes may not be exact



Freezer Bases

Continental

- Safe R-404a Refrigerant for Refrigerators,R-134a for Freezers
- Easily Serviceable Back Mounted Compressor
- Non-CFC Polyurethane Foam Insulation
- Spring Loaded,Self Closing Door,Magnetic Snap in Gasket
- Heavy Duty,Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Stainless Steel Front and Top,Aluminum End Panels,Case Back and interior
- Non -corrosive,Plasticized Fin Evaporator Coil
- Completely Enclosed,Vented and Removable Case Back
- Automatic,Energy Saving,Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingeable Doors
- 5" Swivel Casters
- Auto Electric Defrost



- BTU/HR Rating @ -15 F, 90 Amb

Refrigerated Bases						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CFB42	1000	1/4	115	42X35X35	335	6847.00
CFB67	1340	1/3	115	67X35X35	470	7478.00
CFB92	2180	1/2	115	92X35X35	580	10655.00

Sizes may not be exact

- BTU/HR Rating @ -15 F, 90 Amb



Refrigerated Bases with 6" Backsplash						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CFB42-BS	1000	1/4	115	42x35x41	345	7183.00
CFB67-BS	1340	1/3	115	67x35x41	485	7917.00
CFB92-BS	2180	1/2	115	92x35x41	595	10803.00

Sizes may not be exact

Continental

Refrigerated Base Sandwich Units

- Unique Airflow Distribution Allows Pan Product to Maintain 33 - 41 F is listed with NSF to be in Compliance with Standard for Preparation Units
 - Deep Nylon Cutting Board
 - Safe R-134a Refrigerant
 - Easily Serviceable Back Mounted Compressor
 - 2" Non-CFC Polyurethane Foam Insulation
 - Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
 - Heavy Duty, Epoxy-coated Steel Shelves
 - Interior Hanging Thermometer
 - Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
 - Non-corrosive, Plasticized Fin Evaporator Coil
 - Completely Enclosed, Vented and Removable Case Back
 - Automatic, Energy Saving, Non-electric Condensate Disposal
 - 10 Ft Cord and Plug attached
 - Field Rehingable Doors
 - 5" Casters
- BTU/HR Rating @ +25 F, 90 Amb



Refrigerated Base Sandwich Unit 12" Cutting Board							
Model	Capacity Btu/hr	# STD Size Pans	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CRB42-6	1600	6	1/4	115	42X35X42	350	5332.00
CRB67-8	2300	8	1/3	115	67X35X42	495	6462.00
CRB67-10	2300	10	1/3	115	67X35X42	496	6619.00
CRB67-12	2300	12	1/3	115	67X35X42	498	6776.00
CRB92-8	3100	8	1/2	115	92X35X42	610	8246.00
CRB92-10	3100	10	1/2	115	92X35X42	611	8414.00
CRB92-12	3100	12	1/2	115	92X35X42	613	8589.00
CRB92-18	3100	18	1/2	115	92X35X42	616	9039.00

Sizes may not be exact

Refrigerated Base Mighty Tops 10" Cutting Board							
Model	Capacity Btu/hr	# STD Size Pans	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CRB42-9M	1600	9	1/4	115	42X35X42	355	5537.00
CRB67-12M	2300	12	1/3	115	67X35X42	505	6845.00
CRB67-18M	2300	18	1/3	115	67X35X42	508	7316.00
CRB67-12M	2300	12	1/2	115	67X35X42	620	8763.00
CRB92-18M	3100	18	1/2	115	92X35X42	623	9111.00
CRB92-24M	3100	24	1/2	115	92X35X42	631	9499.00
CRB92-27M	3100	27	1/2	115	92X35X42	634	9791.00
CRB92-30M	3100	30	1/2	115	92X35X42	640	10104.00

Sizes may not be exact



Griddle Stands

Continental

- Anti-Sweat Drawer Heaters
- Safe R-134a Refrigerant for refrigeration, R404A for freezers
- Easily Serviceable
- High density Non-CFC Polyurethane Foam Insulation
- One Piece Magnetic Snap in Gasket
- Easy glide drawers
- Capillary Dial Thermometer
- Reinforced Stainless Steel Finished Work Top with Drip Guard, Marine Edge
- Non-corrosive, Plasticized Fin Evaporator Coil
- Easily accessible front slide out condensing unit
- Automatic, Energy Saving, Non-electric Condensate Disposal system
- 5" casters welded on support plate



Refrigerated Griddle Stands						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
DL1G-SS	1725	1/5	115	51X35X26	427	8701.00
DL2G-SS	1940	1/4	115	76X35X26	507	10229.00
DL3G-SS	2560	1/3	115	102X35X26	587	12719.00

Sizes may not be exact

Refrigerated Griddle Stands - Remote						
Model	Capacity Btu/hr		Voltage	Dimensions WxDxH inch	Ship Weight	List Price
DL1G-SS-R	1725		115	38X35X26	427	8245.00
DL2G-SS-R	1940		115	63X35X26	507	9746.00
DL3G-SS-R	2560		115	89X35X26	587	12199.00

Freezer Griddle Stands						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
DL1GF-SS	1250	1/4	115	51X35X26	439	11320.00
DL2GF-SS	1590	1/3	115	76X35X26	531	12506.00

Freezer Griddle Stands - Remote						
Model	Capacity Btu/hr		Voltage	Dimensions WxDxH inch	Ship Weight	List Price
DL1GF-SS-R	1250		115	38X35X26	439	10824.00
DL2GF-SS-R	1590		115	63X35X26	531	11951.00

Sizes may not be exact

Continental

Pizza Prep Tables Cold Wall

- Exclusive Recessed Pan Rail with Specialized Wrapped Coldwall Allows Pan Product to Maintain 33 - 41 F is listed with NSF to be in Compliance with Standard for Preparation Units
- Top Rail Shut -off Switch w/Seperate Temperature Controls for Rail and Base
- Deep Nylon Cutting Board 19" extra wide
- Safe R-134a Refrigerant
- Easily Serviceable
- High Density Non-CFC Polyurethane Foam Insulation
- Spring Loaded,Self Closing Door,Magnetic Snap in Gasket
- Heavy Duty,Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Heavy #300 Stainless Steel Front and Top,Aluminum End Panels,Case Back and interior
- Non -corrosive,Plasticized Fin Evaporator Coil
- Completely Enclosed,Vented and Removable Case Back
- Automatic,Engery Saving,Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingeable Doors
- 5" Swivel Casters



- BTU/HR Rating @ -10 F, 90 Amb

Pizza Preperation Tables - Cold Wall						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CPT42	1480	1/4	115	42x35x44	355	6688.00
CPT67	1880	1/3	115	67x35x44	495	8790.00
CPT92	2100	1/3	115	92x35x44	605	11780.00
CPT117	2900	1/2	115	117x35x44	725	15880.00

Sizes may not be exact



Pizza Prep Tables Forced Air

Continental

- Unique Forced Air Design Allows Pan Product to Maintain NSF7 Compliance for Prep Tables without Drying, Icing or Discoloring Food in the Raised Rail
- Designed to Perform at 100 F Ambient
- 19" Deep Nylon Cutting Board, full length
- Safe R-134a Refrigerant
- Easily Serviceable
- High Density Non-CFC Polyurethane Foam Insulation
- Spring Loaded, Self Closing Door, Magnetic Snap in Gasket
- Heavy Duty, Epoxy-coated Steel Shelves
- Interior Hanging Thermometer
- Cabinet Consists of Heavy #300 Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 10 Ft Cord and Plug attached
- Field Rehingeable Doors
- 5" Swivel Casters



- BTU/HR Rating @ +25 F, 90 Amb

Pizza Preparation Tables - Forced Air						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
CPA43	2610	1/3	115	43x36x40	355	5810.00
CPA60	3100	1/3	115	60x36x40	425	7412.00
CPA68	4220	1/2	115	68x36x40	495	8272.00
CPA93	5260	3/4	115	93x36x40	605	10992.00

Sizes may not be exact

Continental

Milk Coolers Cold Wall

- Cold Wall, Performance Rated
 - Safe R-404a Refrigerant
 - Easily Serviceable
 - 2" High Density Non-CFC Polyurethane Foam Insulation
 - Snap in lid and door Gasket
 - Heavy Duty Stainless Steel Lid and Door Hinges and Latches
 - Exterior Mounted Thermometer
 - Reinforced Stainless Steel Floor, top, lid and Door
 - Non corrosive, Heavy Duty Epoxy coated wire floor racks
 - Completely Enclosed, Vented and Removable Case Back
 - Automatic, Energy Saving, Non-electric Condensate Disposal
 - Easily Serviceable Rear Mounted Compressor
 - 5" Swivel Type, Heavy Duty Casters (Front Locking)
- BTU/HR Rating @ +10 F, 90 Amb



Single Access Cold Wall						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
MC3-SCW	1280	1/5	115	34X33X41	335	4083.00
MC4-SCW	1725	1/4	115	49X33X41	470	4362.00
MC5-SCW	1930	1/3	115	58X33X41	580	4718.00

Sizes may not be exact

Single Access Cold Wall - Stainless						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
MC3-SS-SCW	1280	1/4	115	34X33X41	345	4315.00
MC4-SS-SCW	1725	1/3	115	49X33X41	485	4656.00
MC5-SS-SCW	1930	1/3	115	58X33X41	595	5589.00

Sizes may not be exact

Dual Access Cold Wall						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
MC3-DCW	1280	1/4	115	34X33X41	335	4288.00
MC4-DCW	1725	1/3	115	49X33X41	470	4744.00
MC5-DCW	1930	1/3	115	58X33X41	580	5189.00

Sizes may not be exact

Dual Access Cold Wall - Stainless						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
MC3-SS-DCW	1280	1/4	115	34X33X41	345	4962.00
MC4-SS-DCW	1725	1/3	115	49X33X41	485	5582.00
MC5-SS-DCW	1930	1/3	115	58X33X41	595	6274.00

Sizes may not be exact



Milk Coolers Forced Air

Continental

- Unique Air Flow Curtain and Performance Rated,R134a System Designed to Keep Milk Cold During Serving
- Easily Serviceable
- 2" High Density Non-CFC Polyurethane Foam Insulation
- One Piece Magnetic Snap in Gasket
- Heavy Duty Stainless Steel Lid and Door Hinges and Latches
- Exterior Mounted Thermometer
- Reinforced Stainless Steel Floor,top,lid and Door
- Non -corrosive,Heavy Duty Epoxy coated wire floor racks
- 5" Swivel Type,Heavy Duty Casters (Front Locking)



- BTU/HR Rating @ +25 F, 90 Amb

Single Access Forced Air						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
MC3-S	2080	1/4	115	34X33X41	335	4304.00
MC4-S	2620	1/3	115	49X33X41	470	4666.00
MC5-S	2870	1/3	115	58X33X41	580	4919.00

Sizes may not be exact

Single Access Forced Air - Stainless						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
MC3-SS-S	2080	1/4	115	34X33X41	345	4794.00
MC4-SS-S	2620	1/3	115	49X33X41	485	5352.00
MC5-SS-S	2870	1/3	115	58X33X41	595	5730.00

Sizes may not be exact

Dual Access Forced Air						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
MC3-D	2080	1/4	115	34X33X41	335	5845.00
MC4-D	2620	1/3	115	49X33X41	470	6636.00
MC5-D	2870	1/3	115	58X33X41	580	6927.00

Sizes may not be exact

Dual Access Forced Air - Stainless						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH inch	Ship Weight	List Price
MC3-SS-D	2080	1/4	115	34X33X41	345	6573.00
MC4-SS-D	2620	1/3	115	49X33X41	485	6961.00
MC5-SS-D	2870	1/3	115	58X33X41	595	7447.00

Sizes may not be exact

Continental

Keg Coolers

- Environmentally Safe, R134a System
- Easily Serviceable
- Long Lasting, Wear Resistant Black Painted Steel Exterior with 304 Stainless Steel Counter Top
- Continuously Cooled 3" Diameter Beer Columns with Stainless Faucet, CO2 Pressure Relief Distributor and Keg Line Tubing
- Easily Removable Stainless Drip Tray and Front Mounted Cleanout Hose
- Cylinder Keyed Security Lock and Magnetic Snap-in Gasket on Each Door
- Non corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Automatic, Energy Saving, Non-electric Condensate Disposal
- Field Rehingable Doors
- 5" Casters only on KC24 Models



- BTU/HR Rating @ +25 F, 90 Amb

Keg Coolers- Black Painted Exterior								
Keg Capacity								
Model	Capacity Btu/hr	HP	Voltage	Barrel	Stght Wall	Dimensions WxDxH	Ship Weight	List Price
KC24	1620	1/5	115	1	1	24x31x39	210	2908.00
KC50	1800	1/3	115	0	2	50x27x37	355	4740.00
KC59	2020	1/3	115	2	3	59x27x37	385	4746.00
KC69	2250	1/3	115	3	3	69x27x37	415	4970.00
KC79	2500	1/3	115	4	4	79x27x37	455	6023.00
KC90	2670	1/3	115	4	5	90x27x37	505	6240.00

Sizes may not be exact

Keg Coolers - Stainless Steel Exterior								
Keg Capacity								
Model	Capacity Btu/hr	HP	Voltage	Barrel	Stght Wall	Dimensions WxDxH	Ship Weight	List Price
KC24-SS	1620	1/5	115	1	1	24x31x39	240	3665.00
KC50-SS	1800	1/3	115	0	2	50x27x37	385	5898.00
KC59-SS	2020	1/3	115	2	3	59x27x37	415	5966.00
KC69-SS	2250	1/3	115	3	3	69x27x37	445	6396.00
KC79-SS	2500	1/3	115	4	4	79x27x37	485	7602.00
KC90-SS	2670	1/3	115	4	5	90x27x37	535	7698.00

Sizes may not be exact

Back Bar Coolers

Continental

- Environmentally Safe, R134a System
- Easily Serviceable
- Long Lasting, Wear Resistant Black Painted Steel Exterior with 304 Stainless Steel Counter Top
- Easily Removable Front, Rear and Side Venting Louvered Grills
- Cylinder Keyed Security Lock and Magnetic Snap-in Gasket on Each Door
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Full Length Extra Large Coils
- Field Re-hingeable Doors
- 5" Casters only on BBC24 Models
- Front Breathing (except BBC24 and BBC24-SS)



- BTU/HR Rating @ +25 F, 90 Amb

Back Bar Coolers- Black Painted Steel Exterior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBC24	1620	1/5	115	24x31x39	210	2762.00
BBC50	1800	1/3	115	50x27x37	355	4519.00
BBC59	2020	1/3	115	59x27x37	385	4521.00
BBC69	2250	1/3	115	69x27x37	415	4686.00
BBC79	2500	1/3	115	79x27x37	455	5070.00
BBC90	2670	1/3	115	90x27x37	505	5439.00

Sizes may not be exact

Back Bar Coolers- Stainless Steel Exterior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBC24-SS	1620	1/5	115	24x31x39	240	3479.00
BBC50-SS	1800	1/3	115	50x27x37	385	5347.00
BBC59-SS	2020	1/3	115	59x27x37	415	5568.00
BBC69-SS	2250	1/3	115	69x27x37	445	5716.00
BBC79-SS	2500	1/3	115	79x27x37	485	6540.00
BBC90-SS	2670	1/3	115	90x27x37	535	6954.00

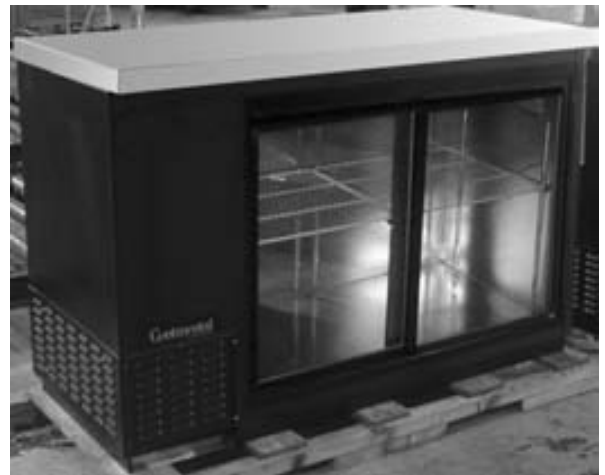
Continental

Display Back Bar Coolers

- Environmentally Safe, R134a System
- Easily Serviceable
- Long Lasting, Wear Resistant Black Painted Steel Exterior with 304 Stainless Steel Counter Top
- Easily Removable Front, Rear and Side Venting Louvered Grills
- Cylinder Keyed Security Lock and Magnetic Snap-in Gasket on Each Door
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Full Length Extra Large Coils
- Field Rehingable Doors
- Front Breathing

Back Bar Display Coolers- Black Painted Exterior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBC24-GD	1620	1/5	115	24x31x39	210	3260.00
BBC50-GD	1800	1/3	115	50x27x37	355	5595.00
BBC59-GD	2020	1/3	115	59x27x37	385	5716.00
BBC69-GD	2250	1/3	115	69x27x37	415	5893.00
BBC79-GD	2500	1/3	115	79x27x37	455	6735.00
BBC90-GD	2670	1/3	115	90x27x37	505	6774.00

Back Bar Display Coolers-Painted Exterior Sliding Glass Doors						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBC50-SGD	1800	1/3	115	50x27x37	365	6151.00
BBC59-SGD	2020	1/3	115	59x27x37	395	6270.00
BBC69-SGD	2250	1/3	115	69x27x37	425	6519.00



Back Bar Display Coolers- Stainless Steel Exterior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBC24-SS-GD	1620	1/5	115	24x31x39	250	3946.00
BBC50-SS-GD	1800	1/3	115	50x27x37	395	6672.00
BBC59-SS-GD	2020	1/3	115	59x27x37	425	6733.00
BBC69-SS-GD	2250	1/3	115	69x27x37	455	6916.00
BBC79-SS-GD	2500	1/3	115	79x27x37	495	7806.00
BBC90-SS-GD	2670	1/3	115	90x27x37	545	7829.00

• BTU/HR Rating @ +25 F, 90 Amb

Back Bar Coolers- Stainless Steel Exterior Sliding Glass Doors						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBC50-SS-SGD	1800	1/3	115	50x27x37	395	7228.00
BBC59-SS-SGD	2020	1/3	115	59x27x37	425	7290.00
BBC69-SS-SGD	2250	1/3	115	69x27x37	455	7475.00

Sizes may not be exact



Undercounter Back Bar Coolers

Continental

- Environmentally Safe, R134a System
- Easily Serviceable
- Long Lasting, Wear Resistant Black Painted Steel Exterior with 304 Stainless Steel Counter Top
- Easily Removable Front, Rear and Side Venting Louvered Grills
- Cylinder Keyed Security Lock and Magnetic Snap-in Gasket on Each Door
- Completely Enclosed, Vented and Removable Case Back
- Full Length Extra Large Coils
- Field Rehingeable Doors
- Front Breathing



- BTU/HR Rating @ +25 F, 90 Amb

Undercounter Back Bar- Black Painted Exterior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBUC50	1800	1/3	115	50x27x35	365	4519.00
BBUC59	2025	1/3	115	59x27x35	395	4521.00
BBUC69	2250	1/3	115	69x27x35	425	4686.00
BBUC79	2500	1/3	115	79x27x35	465	5070.00
BBUC90	2500	1/3	115	90x27x35	515	5439.00

Sizes may not be exact

Undercounter Back Bar- Stainless Steel Exterior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBUC50-SS	1800	1/3	115	50x27x35	365	5347.00
BBUC59-SS	2025	1/3	115	59x27x35	395	5568.00
BBUC69-SS	2250	1/3	115	69x27x35	425	5716.00
BBUC79-SS	2500	1/3	115	79x27x35	465	6540.00
BBUC90-SS	2500	1/3	115	90x27x35	515	6954.00

Continental

Undercounter Back Bar Display Coolers

- Environmentally Safe, R134a System
- Easily Serviceable
- Long Lasting, Wear Resistant Black Painted Steel Exterior with 304 Stainless Steel Counter Top
- Easily Removable Front, Rear and Side Venting Louvered Grills
- Cylinder Keyed Security Lock and Magnetic Snap-in Gasket on Each Door
- Non-corrosive, Plasticized Fin Evaporator Coil
- Completely Enclosed, Vented and Removable Case Back
- Full Length Extra Large Coils
- Field Rehingable Doors
- Front Breathing

- BTU/HR Rating @ +25 F, 90 Amb



Undercounter Back Bar Display- Black Painted Exterior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBUC50-GD	1800	1/3	115	50x27x35	365	5595.00
BBUC59-GD	2025	1/3	115	59x27x35	395	5716.00
BBUC69-GD	2250	1/3	115	69x27x35	425	5893.00
BBUC79-GD	2500	1/3	115	79x27x35	465	6735.00
BBUC90-GD	2500	1/3	115	90x27x35	515	6774.00

Undercounter Back Bar Display- Black Painted Exterior Sliding Glass Doors						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBUC50-SGD	1800	1/3	115	50x27x35	365	6151.00
BBUC59-SGD	2025	1/3	115	59x27x35	395	6270.00
BBUC69-SGD	2250	1/3	115	69x27x35	425	6519.00

Undercounter Back Bar Display Coolers- Stainless Steel Exterior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBUC50-SS-GD	1800	1/3	115	50x27x35	365	6672.00
BBUC59-SS-GD	2025	1/3	115	59x27x35	395	6733.00
BBUC69-SS-GD	2250	1/3	115	69x27x35	425	6916.00
BBUC79-SS-GD	2500	1/3	115	79x27x35	465	7806.00
BBUC90-SS-GD	2500	1/3	115	90x27x35	515	7829.00

Sizes may not be exact

Undercounter Back Bar Display- Stainless Steel Exterior Sliding Glass Doors						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
BBUC50-SS-SGD	1800	1/3	115	50x27x35	365	7228.00
BBUC59-SS-SGD	2025	1/3	115	59x27x35	395	7290.00
BBUC69-SS-SGD	2250	1/3	115	69x27x35	425	7475.00



Bottle Coolers

Continental

- Environmentally Safe, R134a System
- Easily Serviceable
- Long Lasting, Wear Resistant Black Painted Steel Exterior with all Stainless Steel Counter Top and Slide Lids for Life Time Durability
- Epoxy Coated, Heavy Duty, Adjustable Steel Wire Storage Bin Dividers Maximize Storage Space
- Heavy Duty Bottle Cap Opener with Extra Capacity, Removable Cap Catcher
- Cylinder Keyed Security Lock and Magnetic Snap-in Gasket on Each Door
- Automatic, Energy Saving, Non-electric Condensate Disposal



Sizes may not be exact

Bottle Coolers- Black Painted Exterior (38 - 41 F)								
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	# of Cases 12 oz Bottles	# of Cases 12 oz cans	Ship Weight	List Price
CBC24	1800	1/5	115	24X27X34	4.5	7.5	205	2843.00
CBC37	1800	1/5	115	37x27x34	12	18.5	215	3062.00
CBC50	1910	1/3	115	50x27x34	18	27	265	3173.00
CBC64	2050	1/3	115	64x27x34	25	37	315	3538.00
CBC95	3100	1/2	115	95x27x34	40	59	435	4884.00

Bottle Coolers - Stainless Steel Exterior (38 - 41 F)								
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	# of Cases 12 oz Bottles	# of Cases 12 oz cans	Ship Weight	List Price
CBC24-SS	1800	1/5	115	24X27X34	4.5	7.5	235	3441.00
CBC37-SS	1800	1/5	115	37x27x34	12	18.5	255	3700.00
CBC50-SS	1910	1/3	115	50x27x34	18	27	300	3914.00
CBC64-SS	2050	1/3	115	64x27x34	25	37	350	4243.00
CBC95-SS	3100	1/2	115	95x27x34	40	59	475	5694.00

Continental

Glass And Plate Chillers

- Enviromentally Safe,R404a System
- Easily Serviceable
- Long Lasting,Wear Resistant Black Painted Steel Exterior with all Stainless Steel Counter Top and Slide Lids for Life Time Durability
- Epoxy Coated,Heavy Duty,Adjustable Steel Wire Storage Bin Dividers Maximize Storage Space
- Cylinder Keyed Security Lock and Magnetic Snap-in Gasket on Each Door
- Automatic,Engery Saving,Non-electric Condensate Disposal
- Cabinet will Maintain 0 F and Below for Fast Frosting of Wet or Dry Glasses



Glass and Plate Chillers- Black Painted Exterior								
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	# of 5" Mugs	# of 10" Steins	Ship Weight	List Price
CGC24	1800	1/4	115	24X27X34	95	90	215	3610.00
CGC37	1800	1/3	115	37x27x34	180	170	225	3996.00
CGC50	1350	1/3	115	50x27x34	265	250	285	4265.00

Glass and Plate Chillers- Stainless Steel Exterior								
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	# of 5" Mugs	# of 10" Steins	Ship Weight	List Price
CGC24-SS	1800	1/4	115	24X27X34	95	90	245	4294.00
CGC37-SS	1800	1/3	115	37x27x34	180	170	265	4772.00
CGC50-SS	1350	1/3	115	50x27x34	265	250	320	5179.00

Sizes may not be exact

Reach-In Self Contained Coolers

Continental

- Safe R-134a Refrigerant for Refrigerators
- 3" Non-CFC Polyurethane Foam Insulation
- Self Closing Door, Magnetic Snap in Gasket
- Cylinder Lock in Each Door
- Heavy Duty, Epoxy-coated Steel Shelves
- External Dial Thermometer
- Chrome Plated Flow Line Handles
- Cam Action Lift-Off Hinges
- Automatic, Energy Saving, electric Condensate Disposal
- 5" Casters

Standard Models- Stainless Front, Aluminum Ends & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1R	1940	1/4	115	26x36x82	310	4756.00
2R	2560	1/3	115	52x36x82	520	6291.00
3R	4010	1/2	115	78x36x82	725	8482.00

Stainless Exterior, Aluminum Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1R-SA	1940	1/4	115	26x36x82	350	5658.00
2R-SA	2560	1/3	115	52x36x82	560	7069.00
3R-SA	4010	1/2	115	78x36x82	765	9522.00

Stainless Exterior & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1R-SS	1940	1/4	115	26x36x82	370	6749.00
2R-SS	2560	1/3	115	52x36x82	600	8893.00
3R-SS	4010	1/2	115	78x36x82	840	12199.00

Sizes may not be exact



Continental

Pass-Thru Self Contained Coolers

- Safe R-134a Refrigerant for Refrigerators
- 3" Non-CFC Polyurethane Foam Insulation
- Self Closing Door, Magnetic Snap in Gasket
- Cylinder Lock in Each Door
- Heavy Duty, Epoxy-coated Steel Shelves
- External Dial Thermometer
- Chrome Plated Flow Line Handles
- Cam Action Lift-Off Hinges
- Automatic, Energy Saving, Electric Condensate Disposal
- 5" Casters

Standard Models- Stainless Front, Aluminum Ends & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1R-PT	1940	1/4	115	26x39x82	310	7429.00
2R-PT	2560	1/3	115	52x39x82	520	9576.00
3R-PT	4010	1/2	115	78x39x82	725	12838.00

Stainless Exterior, Aluminum Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1R-SA-PT	1940	1/4	115	26x39x82	350	8089.00
2R-SA-PT	2560	1/3	115	52x39x82	560	10249.00
3R-SA-PT	4010	1/2	115	78x39x82	765	13551.00

Stainless Exterior & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1R-SS-PT	1940	1/4	115	26x39x82	370	9201.00
2R-SS-PT	2560	1/3	115	52x39x82	600	12127.00
3R-SS-PT	4010	1/2	115	78x39x82	840	16406.00



Sizes may not be exact

Reach-In Self Contained Freezers

Continental

- Safe R-404a Refrigerant for Refrigerators
- 3" Non-CFC Polyurethane Foam Insulation
- Self Closing Door,Magnetic Snap in Gasket
- Cylinder Lock in Each Door
- Heavy Duty,Epoxy-coated Steel Shelves
- External Dial Thermometer
- Chrome Plated Flow Line Handles
- Cam Action Lift-Off Hinges
- Automatic,Energy Saving,Electric Condensate Evaporator
- 5" Casters
- Auto Electric Defrost

Standard Models- Stainless Front,Aluminum Ends & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F	1590	1/3	115	26x36x82	325	5918.00
2F	2470	1/2	115	52x36x82	555	8040.00
3F	3575	3/4	115-208-230	78x36x82	790	10949.00



Stainless Exterior,Aluminum Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F-SA	1590	1/3	115	26x36x82	365	6618.00
2F-SA	2470	1/2	115	52x36x82	595	9061.00
3F-SA	3575	3/4	115-208-230	78x36x82	830	11735.00

Stainless Exterior & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F-SS	1590	1/3	115	26x36x82	370	7700.00
2F-SS	2470	1/2	115	52x36x82	600	10972.00
3F-SS	3575	3/4	115-208-230	78x36x82	840	14740.00



Sizes may not be exact

Continental

Pass-Thru Self Contained Freezers

- Safe R-404a Refrigerant for Refrigerators
- 3" Non-CFC Polyurethane Foam Insulation
- Self Closing Door, Magnetic Snap in Gasket
- Cylinder Lock in Each Door
- Heavy Duty, Epoxy-coated Steel Shelves
- External Dial Thermometer
- Chrome Plated Flow Line Handles
- Cam Action Lift-Off Hinges
- Automatic, Energy Saving, Electric Condensate Evaporator
- 5" Casters
- Auto Electric Defrost

Standard Models- Stainless Front Alum Ends & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F-PT	1590	1/3	115	26x36x82	325	8439.00
2F-PT	2470	1/2	115	52x36x82	555	11541.00
3F-PT	3575	3/4	115-208-230	78x36x82	790	15608.00

Stainless Exterior, Aluminum Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F-SA-PT	1590	1/3	115	26x39x86	355	9023.00
2F-SA-PT	2470	3/4	115-208-230	52x39x86	665	12232.00
3F-SA-PT	3575	1	115-208-230	78x39x86	885	16192.00

Stainless Exterior & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F-SS-PT	1590	1/3	115	26x39x82	415	9879.00
2F-SS-PT	2470	3/4	115-208-230	52x39x86	745	14414.00
3F-SS-PT	3575	1	115-208-230	78x39x86	1000	19218.00



Sizes may not be exact

Reach-In Self Contained Low Temp Freezers

Continental

- Safe R-404a Refrigerant for Refrigerators
- 3" Non-CFC Polyurethane Foam Insulation
- Self Closing Door, Magnetic Snap in Gasket
- Cylinder Lock in Each Door
- Heavy Duty, Epoxy-coated Steel Shelves
- External Dial Thermometer
- Chrome Plated Flow Line Handles
- Cam Action Lift-Off Hinges
- Automatic, Energy Saving, Electric Condensate Evaporator
- 5" Casters
- Auto Electric Defrost

Standard Models- Stainless Front, Aluminum Ends & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F-LT	2050	3/4	115-208-230	26x36x86	425	8352.00
2F-LT	2600	1	115-208-230	52x36x86	580	12060.00
3F-LT	6300	1 1/2	115-208-230	78x36x86	825	18199.00

Stainless Exterior, Aluminum Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F-LT-SA	2050	3/4	115-208-230	26x36x86	475	9370.00
2F-LT-SA	2600	1	115-208-230	52x36x86	620	12630.00
3F-LT-SA	6300	1 1/2	115-208-230	78x36x86	865	18766.00



Stainless Exterior & Interior						
Model	Capacity Btu/hr	HP	Voltage	Dimensions WxDxH	Ship Weight	List Price
1F-LT-SS	2050	3/4	115-280-230	26x36x86	495	10203.00
2F-LT-SS	2600	1	115-208-230	52x36x86	660	13143.00
3F-LT-SS	6300	1 1/2	115-208-230	78x36x86	940	19856.00

Sizes may not be exact

Continental

Reach-In Self Contained Dual Temp Freezers

- Safe R-134a Refrigerant for Freezers
- 3" Non-CFC Polyurethane Foam Insulation
- Self Closing Door, Magnetic Snap in Gasket
- Cylinder Lock in Each Door
- Heavy Duty, Epoxy-coated Steel Shelves
- External Dial Thermometer
- Cabinet Consists of Stainless Steel Front and Top, Aluminum End Panels, Case Back and interior
- Non -corrosive, Plasticized Fin Evaporator Coil
- Chrome Plated Flow Line Handles
- Cam Action Lift-Off Hinges
- Automatic, Energy Saving, Non-electric Condensate Disposal
- 5" Casters

Standard Models- Stainless Front Ends & Interior					Full Doors	Half Door
Model	Capacity Btu/hr	Voltage	Dimensions WxDxH	Ship Weight	List Price	List Price
1RF	1725/1250	115	26x36x82	420	N/A	9233.00
2RF	1940/1590	115	52x36x82	580	11355.00	12103.00
3RRF	2560/1590	115	78x36x82	825	13120.00	13666.00
3RFF	1940/2470	115	78x36x82	825	16098.00	16645.00

Stainless Exterior, Aluminum Interior					Full Door	Half Door
Model	Capacity Btu/hr	Voltage	Dimensions WxDxH	Ship Weight	List Price	List Price
1RF-SA	1725/1250	115	26x36x82	460	N/A	9911.00
2RF-SA	1940/1590	115	52x36x82	620	12272.00	12792.00
3RRF-SA	2560/1590	115	78x36x82	865	13822.00	14230.00
3RFF-SA	1940/2470	115	78X36X82	865	16828.00	17384.00

Stainless Exterior & Interior					Full Door	Half Door
Model	Capacity Btu/hr	Voltage	Dimensions WxDxH	Ship Weight	List Price	List Price
1RF-SS	1725/1250	115	26x36x82	500	N/A	10897.00
2RF-SS	1940/1590	115	52x36x82	665	14272.00	14794.00
3RRF-SS	2560/1590	115	78x36x82	935	16717.00	17273.00
3RFF-SS	1940/2470	115	78X36X82	935	19729.00	20277.00



Sizes may not be exact



Cleanliness, appearance and optimum utilization of space for equipment are all important requirements for walk-in coolers. Imperial Manufacturing will custom fit its insulated structures to your space, and because we use the most energy efficient CFC and HCFC Free Class 1 urethane foam insulation available today. Our wall thicknesses are minimized, leaving more space for other equipment.

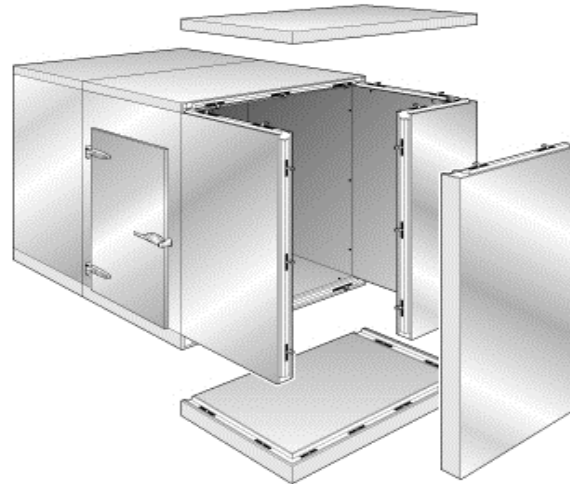
Features

Coolers

- 4" high density urethane
- stucco white galvalume interior/exterior
- Cam-lock ceiling, mounted caps
- 2" flush mount thermometer
- vapor proof light
- optional floor

Freezer

- 4" high density urethane
- stucco white galvalume interior/exterior
- Cam-lock ceiling, mounted caps
- 2" flush mount thermometer
- vapor proof light
- optional floor
- heated air vent
- 500 lbs/sq ft cam-lock floor panels
- 4" HDU floor w / 1/2" plywood underlayment
- 16 ga. smooth galv wear surface



**Call for price
and delivery**

- Enhance beverage appearance and taste
- Ice Machine operates efficiently-requires minimal maintenance
- Add years to equipment

- Increase beverage sales and profit
- Less expense due to downtime and service
- Reduce the cause of 70% of service related problems

- IsoNet delivers maximum protection against scale and corrosion
- Reduce Chlorine and off-taste and odor
- Remove dirt and sediment particales that can clog solenoids and damage pumps

- Systems have a 3 year warranty against defects in material and workmanship



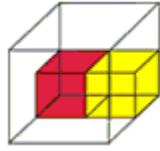
Systems

MODEL	Inlet & Outlet	Gallons	Width	Depth	Height	List
FX-11	1/2 "	15,000	7 "	5 1/8 "	14.5 "	296.00
FX-12	1/2 "	30,000	7 "	5 1/8 "	24.5"	388.00
FXS-22	1/2 "	30,000	11 5/16	5 3/4	24 5/8	650.00

Replacement Filters

MODEL	List Price
CT010	30.00
CT020	54.00
CT0S10	52.00
CT0S20	94.00





Shelves and Posts

Performance Features :

- Pro-form-antimicrobial/epoxy finish/light green appearance
- All welded construction with additional wire trussing
- Wire allows air to circulate
- Minimal dirt accumulation
- No tools to assemble
- Adjustable foot levelers
- Durable finish
- 800 lb capacity per shelf
- Optional accessories
- National Sanitation Foundation Approved



Assembling Wire Shelving Units is as Easy as 1-2-3

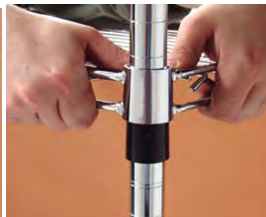
- 1.Snap plastic sleeve around post
- 2.Slide shelf over sleeve for secure locking
- 3.Two S-Hooks are used to connect add-on wire shelf to starter units.

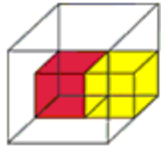
Epoxy Shelves

Width/Length (in)	Wt./Lbs (lbs)	Part #	List Price
14 x 30	7	QS1430P	25.32
14 x 36	8	QS1436P	29.46
14 x 42	10	QS1442P	32.94
14 x 48	11	QS1448P	36.74
14 x 60	14	QS1460P	41.72
14 x 72	17	QS1472P	52.96
18 x 24	7	QS1824P	24.60
18 x 30	8	QS1830P	28.84
18 x 36	10	QS1836P	33.56
18 x 42	11	QS1842P	37.66
18 x 48	14	QS1848P	44.46
18 x 54	15	QS1854P	50.26
18 x 60	17	QS1860P	54.72
18 x 72	20	QS1872P	64.24
21 x 24	8	QS2124P	26.72
21 x 30	9	QS2130P	31.40
21 x 36	11	QS2136P	36.68
21 x 42	12	QS2142P	41.14
21 x 48	14	QS2148P	47.32
21 x 54	16	QS2154P	54.02
21 x 60	18	QS2160P	59.08
21 x 72	24	QS2172P	69.14
24 x 24	9	QS2424P	30.45
24 x 30	11	QS2430P	35.86
24 x 36	13	QS2436P	42.02
24 x 42	15	QS2442P	47.32
24 x 48	16	QS2448P	54.16
24 x 54	18	QS2454P	61.90
24x 60	21	QS2460P	70.34
24 x 72	26	QS2472P	82.60

Posts

Height (in)	Weight (lbs)	Part #	List Price
54	3	QP54P	13.06
63	4	QP63P	14.68
74	4	QP74P	16.68
86	5	QP86P	18.84





QUANTUM™ STORAGE SYSTEMS

Starter Unit and Add-on Unit



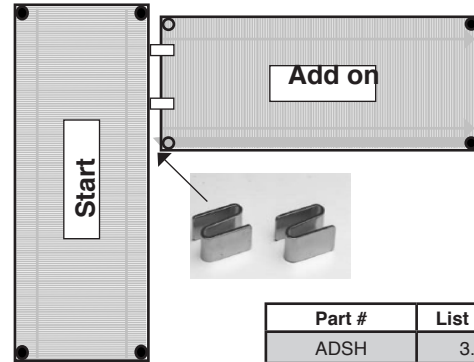
Starter Shelving with Add-on Units

Starter with 4 Shelves and 4 Posts

Add-on with 4 Shelves, 2 Posts

and 8 "S" Hooks

Add-On



Starter Unit consist of 4 Posts and 4 Shelves.

Add-on Unit consist of 2 Posts, 4 Shelves and 8 "S" Hooks.

Donut Bumper

Part #	List Price
DB	8.00



Part #	Brake	Size	Weight	Capacity	List Price
WR-00H-B	Yes	5 x 1 1/4 "	2 lb each	1200 lbs	24.88 each
WR-00H-s	No	5 x 1 1/4 "	2 lb each	1200 lbs	20.60 each

Custom Gaskets

Call for Pricing

Dart Style Gaskets



Model H-34

Fits 5/16" channel.
Traulsen reach in coolers & freezers
1/2" wide x 7/16" deep



Model H-29

Fits 3/16" channel.
Silverking coolers & freezers
7/16" wide x 7/16" deep



Model H-39

Fits 1/8" channel.
Anthony, Coldstream, Glenn Air, Hussman,
Leer, Randell glass doors.
7/16" wide x 1/4" deep



Model H-38

Fits 1/8" channel.
Traulsen, Coldstream, True Raetone,
Cornelius
1/2" wide x 3/8" deep



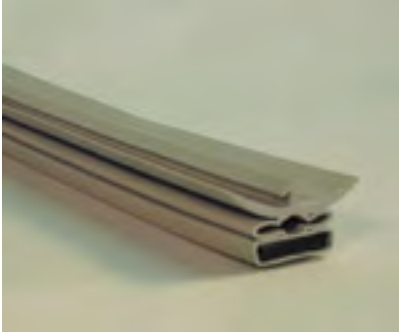
Model H-28

Fits 1/8" channel.
Beverage Air, Diamond, M.K.E.
Duke, Jordan, Kelvinator, Met, Tec,
McCall, Raetone, Star Metal, Superior, True
5/8" wide x 1/2" deep

Custom Gaskets

Dart Style Gaskets

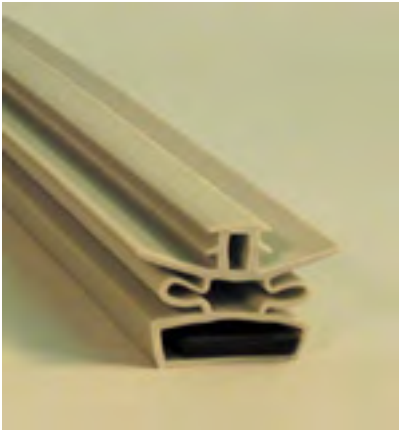
Call for Pricing



Model H-28-C

Fits 1/8" channel.

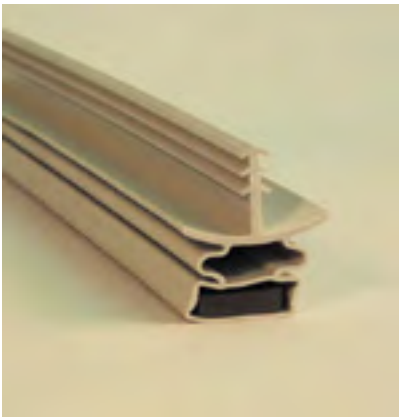
Traulsen reach in coolers & freezers,
Beverage Air, Diamond, M.K.E., Duke,
Jordan, Kelvinator, Met, Tec, McCall,
Raetone, StarMetal, Superior, True
5/8" wide x 1/2" deep



Model H-22

Fits 1/4" channel.

Coldmatic, Foster
3/4" wide x 5/8" deep



Model H-32

Fits 1/8" channel.

Kelvinator, Bally coolers & freezers
5/8" wide x 1/2" deep

Custom Gaskets

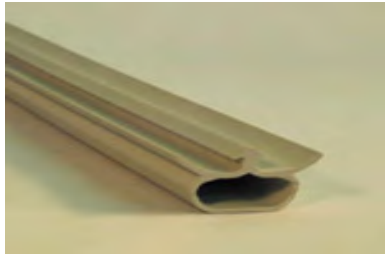
Miscellaneous Gaskets

Call for Pricing



Model C-38

Fits 1/8" channel.
Compression situations of
1/2" offset
Coldstream, Foster
5/8" wide x 5/8" deep



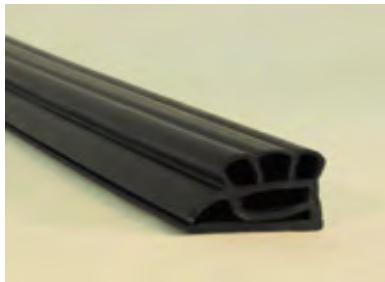
Model C-22

Fits 1/8" channel with 3/8"-1/2" offset
Foster walk in
3/4" wide x 1/2" deep



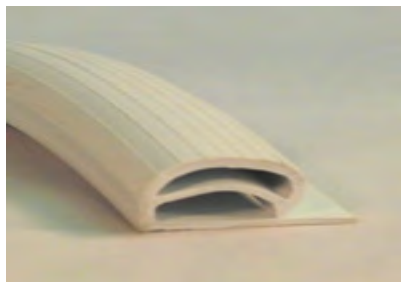
Model J-15

1-1/2" width x 1/2" depth
Closed cell neoprene for slide door jambs.
Universal application, comes with pressure
sensitive adhesive.



Model C-10

Flange type compression gasket
for 1/2" offset
Universal applications
3/4" wide x 5/8" deep



Model C-1

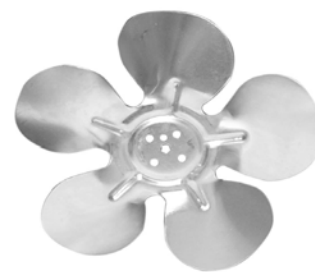
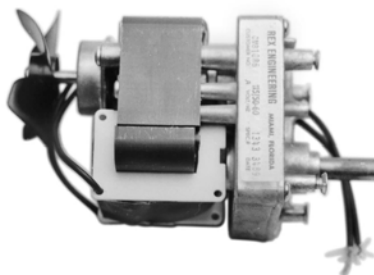
Basic compression gasket
Various applications
3/4" wide x 1/2" deep

Oem Parts

- TRUE
- BEVERAGE-AIR
- DELFIELD
- SILVER KING
- HABCO
- KELVINATOR
- UNIVERSAL NO-LIN
- KASON
- QBD
- MASTER-BUILT
- ANTHONY
- AARDCO
- DISPLAYRITE
- FOSTER
- MKE
- McCALL
- TURBO AIR
- NORLAKE
- NORBEC
- VICTORY



- JUST BECAUSE IT'S NOT ON THE LIST DOES NOT MEAN WE CAN'T GET IT.GIVE US A CALL AND WE WILL DO OUR BEST TO FIND WHAT YOU ARE LOOKING FOR



NOTES



WorkTables 18 Guage Stainless Steel With Galvanized Undershelf



Model	Sizes (inches) W x L x H	Weight	List Price
WT-2424	24x24x35	42	214.00
WT-2430	24x30x35	48	222.00
WT-2436	24x36x35	55	240.00
WT-2448	24x48x35	65	294.00
WT-2460	24x60x35	80	356.00
WT-2472	24x72x35	90	394.00
WT-2496	24x96x35	105	496.00
WT-3030	30x30x35	50	248.00
WT-3036	30x36x35	57	272.00
WT-3048	30x48x35	69	334.00
WT-3060	30x60x35	83	394.00
WT-3072	30x72x35	95	454.00
WT-3096	30x96x35	110	578.00

Stainless Steel Hand Sinks



Hand Sinks

Model	Sizes (inches) W x L x H	Weight	List Price
HSF-14 Hand sink with faucet	17 x 15.25 x 13.35	15	390.00



Stainless Steel Sinks 18 Guage

	Centre Drain 18" x 18" Bowl	Price
PS1-18	1 Compartment No Drain Board	676.00
PS1-18L/R	1 Compartment Left or Right Drain Board	888.00
PS1-18LR	1 Compartment Left & Right Drain Board	1036.00
PS2-18	2 Compartment No Drain Board	1144.00
PS2-18L/R	2 Compartment Left or Right Drain Board	1248.00
PS2-18LR	2 Compartment Left & Right Drain Board	1400.00
PS3-18	3 Compartment No Drain Board	1528.00
PS3-18L/R	3 Compartment Left or Right Drain Board	1650.00
PS3-1818LR	3 Compartment Left & Right Drain Board	1794.00



Stainless Steel Sinks 18 Guage

	Corner Drain 24" x 24" Bowl	Price
CDS1-24	1 Compartment No Drain Board	990.00
CDS1-24L/R	1 Compartment Left or Right Drain Board	1338.00
CDS1-24LR	1 Compartment Left & Right Drain Board	1598.00
CDS2-24	2 Compartment No Drain Board	1788.00
CDS2-24L/R	2 Compartment Left or Right Drain Board	2000.00
CDS2-24LR	2 Compartment Left & Right Drain Board	220600
CDS3-24	3 Compartment No Drain Board	2444.00
CDS3-24L/R	3 Compartment Left or Right Drain Board	2622.00
CDS3-24LR	3 Compartment Left & Right Drain Board	2810.00

Ice Storage and Management Systems

FOLLETT

Ice storage bins with automatic agitation to store and dispense cube ice into bags, carts, pails or totes. Exceptional labour-savings, sanitation and safety benefits. Equipped with user-friendly control panel, foot pedal actuation, lockable clear window and adjustable bag stand.

Ice Transport Systems



Ice Pro



Digi Cool

Digital Refrigeration System Analyzer

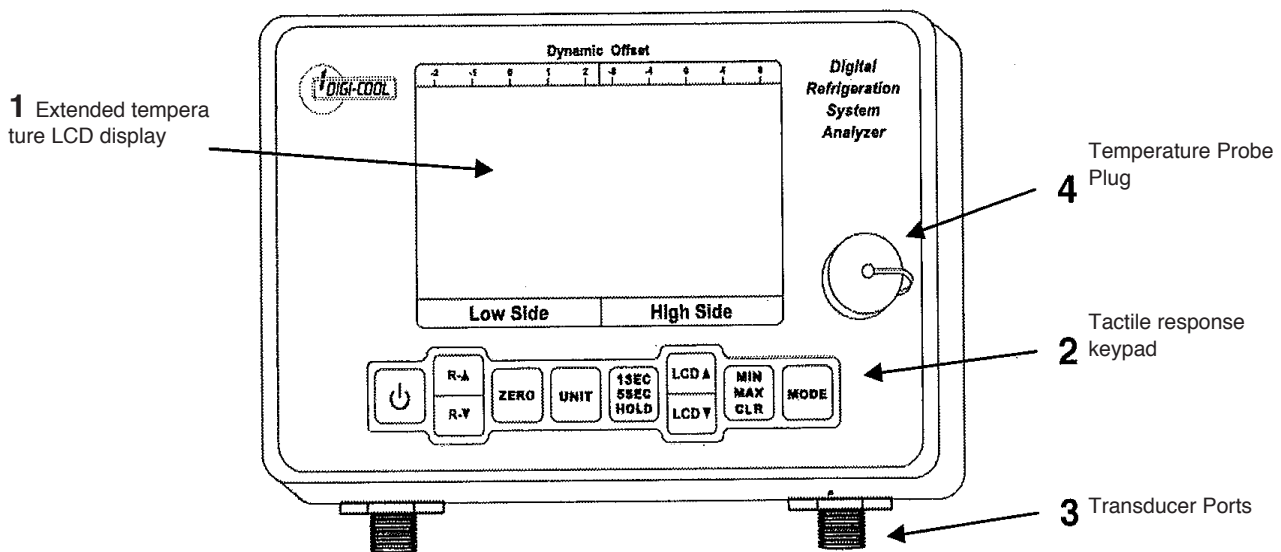
- Sleek, compact design
- Dynamic Offset bar graph clearly shows modulation of control valves
- Adjustable digital readout update rate 1 & 5 seconds or hold digits
- One-touch atmospheric pressure calibration
- Vacuum readings in Hg
- Easy to read LCD screen with large 3/8 digits
- Temperature probe for automatic superheat and subcooling readings.
- Max/min pressure monitoring for control set-up.
- Automatic power off after 15 minutes preserves battery life...low battery indicator.
- Upgradeable for new and additional refrigerants
- Water resistant and wide temperature range for indoor and outdoor use.
- Tough construction with flexible protective boot.
- Durable construction and tough case tolerates drops and impacts
- Includes profiles for 25 common refrigerants within.

Digital Refrigeration System Analyzer

Part #	List Price
DRSA-1200	1300.00

Part #	List Price
DRSA-1250	1498.00

Part #	List Price
DRSA-1600	1150.00



Yellow Jacket

Yellow Jacket gives you the edge. Well-engineered tools, hoses and gauges for your exacting standards. With so many offerings that match their developing needs, it no wonder leading HVAC/R professionals worldwide choose Yellow Jacket.



Charging Hoses



Recovery Units



Manifold Gauges



Vacuum Pumps



Instruments

APPION

Vacuum Pump

TEZ 8 Two Stage

With the TEZ 8 ,Appion brings innovative,advanced technology to the vacuum pump.Designed from the ground up,the TEZ 8 combines performance and reliability with user friendly features to save you money.

- 8 CFM
- 5 Second oil change
- Rated to 20 microns
- Only weighs 28 Lbs



Vacuum Pump

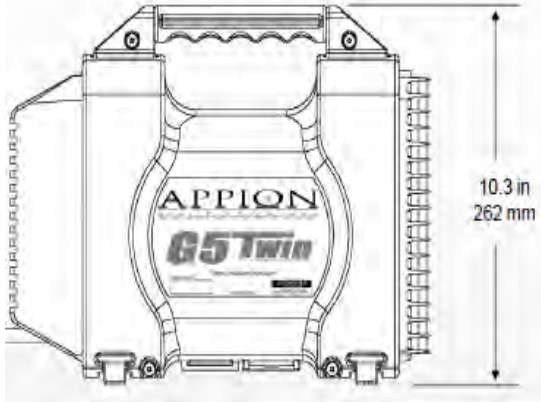
Model	volts	width	length	Weight lbs	List Price
TEZ 8	115	9.4 in	14.25 in	28	2300.00

Recovery Unit

G5 Twin Cylinder

The all new G5 Twin Refrigerant recovery machine.The G5 was designed to provide the best recovery speeds in all conditions,with the smallest size portable unit.

- Up to 188% faster than the competition
- Pumps R410A / R22
- Only weighs 24 Lbs
- 115V,60Hz,10 Amp



Recovery Unit

Model	volts	width	length	Weight lbs	List Price
G 5	115	9.4 in	13.75 in	24	1690.00

Tube Cutters



Gauges

Service Manifolds



Tube Benders

Hoses



WiringPro's product line

Wire Fittings



Part no. Ring Terminals	List Price
P-RR6 22-18 Ring #6 100/pkg	21.16
P-RR10 22-18 Ring #10 100/pkg	21.16
P-BR10 16-14 Ring #10 100/pkg	21.16
P-BR1/4 16-14 Ring 1/4" 100/pkg	21.16
P-YR10 12-10 Ring #10 75/pkg	21.16
P-YR1/4 12-10 Ring 1/4" 60/pkg	21.16



Part no. Butt Connectors	List Price
P-RBS 22-18 Butt 100/pkg	21.16
P-YBS 12-10 Butt 75/pkg	21.16
P-BBS 16-14 Butt 100/pkg	21.16



Part no. Flag Terminals	List Price
P-NRF-FI-250 22-18 Nylon FI Female QD Flag	33.96
P-NBF-FI-250 16-14 Nylon FI Female QD Flag	33.96
P-NYF-FI-250 12-10 Nylon FI Female QD Flag	21.09

WiringPro



Part no. Block Terminals	List Price
P-RS6 22-18 Block Spade #6 100 pkg	21.16
P-RS10 22-18 Block Spade #10 100 pkg	21.16
P-BS6 16-14 Block Spade #6 100 pkg	21.16
P-BS10 16-14 Block Spade #10 100 pkg	21.16



Part no. Male Disconnect	List Price
P-RQDM-250 22-18 Male Disc. 100 pkg	21.16
P-BQDM-250 16-14 Male Disc. 100 pkg	21.16
P-NBQDM-FI-250 16-14 Nylon FI Male pkg	21.16
P-YQDM-250 12-10 Male Disc. 75/pkg 75	21.16



Part no. Female Disconnect	List Price
P-RQDF-250 22-18 Female Disc. 100/pkg	21.16
P-BQDF-187 16-14 Female Disc. 100/pkg	21.16
P-BQDF-250 16-14 Female Disc. 100/pkg	21.16
P-NBQDF-FI-250 16-14 Nylon FI QD 40pkg	21.16
P-YQDF-250 12-10 Female Disc. 75/pkg 75	21.16

Shrink Tube



Part no.Shrink Tube	List Price
P-SWT 3/16-6-6-X Tubing 6" 12 pkg	7.34
P-SWT 1/4-6-X Tubing 6" 12 pkg	8.14
P-DWA # 2 - 6 -X Double Wall 4 pkg	19.90

Wire Connectors



Part no.Wire Connectors	List Price
P-WC-GREY 22-14 Twist-On Wire Connector - Grey 100 pkg	8.60
P-WC-BLUE 22-14 Blue Twist-On Connector 100/pkg	8.86
P-WC-ORANGE 22-14 Orange Twist-On Connector 60pkg	7.94
P-WC-YELLOW 22-10 Yellow Twist-On Connector 50pkg	9.10
P-WC-RED 22-8 Red Twist-On Connector 35/pkg	10.24

Wire



Part no.Wire	List Price
P-TEW16/26-B 100' of 16/26 TEW - Black 100'	44.20
P-TEW16/26-R 100' of 16/26 TEW - Red 100'	44.20
P-TEW14/41-W 100' of 14/41 TEW - White 100'	59.86
P-TEW14/41-R 100' of 14/41 TEW - Red 100'	59.86
P-TEW14/41-B 100' of 14/41 TEW - Black 100'	59.86
P-TEW12/65-B 100' of 12/65 TEW - Black 100'	86.40

Cable Ties



Part no.Cable Ties	List Price
CT0540ST-0-C 5.8" 40 lb Cable Tie Natural 100/pkg	8.20
CT0750ST-0-C 7.5" 50 lb Cable Tie Natural 100/pkg	9.74
CT0850MH-0-C 8" 50 lb Mounting CT Natural 100/pkg	14.66
CT1150ST-0-C 11.2" 50 lb CT- Natural 100/pkg	15.60
CT1150ST-X-C 11.2" 50 lb CT- Black 100/pkg	15.96
CT1450ST-0-C 14.5" 50 lb CT-Natural 100/pkg	20.46
CT1450ST-X-C 14.5" 50 lb CT- Black 100/pkg	21.00
CT0540ST-X-C 5.8" 40 lb Cable Tie Black 100/pkg	8.34
CT0750ST-X-C 7.5" 50 lb Cable Tie Black 100/pkg	10.00
CT0850MH-X-C 8.0" 50 lb Mounting CT Black 100/pkg	15.04

Duct Tape



Part no.Foil Tape	List Price
469TAPE 2" DUCT TAPE	21.84
491FSK 2" FOIL TAPE	22.20

Electrical Tape



Part no.Electrical Tape	List Price
3M TEMFLEX 3/4 X 66' ELECTRICAL TAPE	2.60

Temperature / Pressure Chart

Deg Farenheight	Freon 22 R-22	Suva 410A R-410A	Isceon MO29 R-422D	Isceon MO79 R-22A	Suva 404A R-404A	Suva 507 R-507	Suva HP80 R-402A	Suva 134a R-134a	HS R-414B	Suva Mp39 R-401A	Suva 409A R-409A
42	71.5	123.0	69.4	87.0	88.8	92.7	95.3	37.0	32.9	38.5	36.1
44	74.5	127.7	72.5	90.5	92.4	96.4	99.0	39.0	34.8	40.5	38.0
46	77.6	132.6	75.6	94.2	96.0	100.1	102.9	41.1	36.7	42.6	40.1
48	80.8	137.5	78.9	97.9	99.8	104.0	106.8	43.2	38.6	44.8	42.1
50	84.1	142.6	82.2	101.8	103.6	107.9	110.9	45.4	40.7	47.0	44.3
52	87.4	147.9	86.1	111.3	107.5	111.9	119.6	47.7	42.8	49.2	46.4
56	94.4	158.7	103.6	119.7	115.7	120.3	128.3	52.4	47.7	54.7	51.8
60	101.6	170.1	111.4	128.4	124.2	129.1	137.4	57.4	52.7	60.1	57.1
64	109.3	182.1	119.6	137.5	133.2	138.3	147.0	62.7	58.0	65.4	62.4
68	117.3	194.6	128.1	147.1	142.6	147.9	157.0	68.2	63.3	70.7	67.7
72	125.7	207.7	137.1	157.2	152.4	157.9	167.4	74.1	68.6	76.0	73.0
76	134.5	221.4	146.5	167.6	162.7	168.5	178.3	80.2	74.0	81.3	78.3
80	143.6	235.8	156.3	178.6	173.4	179.5	189.7	86.7	79.9	86.6	83.6
84	153.2	250.7	166.5	190.0	184.6	190.9	201.5	93.5	85.8	91.9	89.0
88	163.2	266.4	177.2	201.9	196.4	202.9	213.9	100.6	91.9	98.0	95.1
92	173.7	282.7	188.4	214.4	208.6	215.4	226.8	108.1	98.0	104.1	101.2
96	184.6	299.8	200.0	227.3	221.3	228.5	240.2	115.9	104.1	110.2	107.3
100	195.9	317.6	212.2	240.9	234.6	242.1	254.2	124.2	110.2	116.3	113.4
104	207.7	336.1	224.8	254.9	248.5	256.2	268.7	132.7	116.3	122.4	119.5
108	220.0	355.4	237.9	269.6	262.9	271.0	283.9	141.7	122.4	128.5	125.6
112	232.8	375.5	251.6	284.8	278.0	286.3	299.6	151.1	128.5	134.6	131.7
116	246.1	396.5	265.9	300.6	293.6	302.3	315.9	160.9	134.6	140.7	137.8
120	260.0	418.3	280.7	317.1	309.9	318.9	332.9	171.2	140.7	146.8	143.9
124	274.3	441.0	296.0	334.2	326.8	336.2	350.5	181.8	146.8	152.9	150.0
128	289.2	464.6	312.0	352.0	344.4	354.2	368.7	193.0	152.9	159.0	156.1
132	304.7	489.2	328.6	370.5	362.8	372.9	387.7	204.6	159.0	165.1	162.2
136	320.7	514.8	345.8	389.7	381.9	392.4	407.4	216.7	165.1	171.2	168.3
140	337.4	541.4	363.7	409.7	401.7	412.7	427.8	229.2	171.2	177.3	174.4
144	354.6	569.2	382.3	430.5	422.4	433.8	449.0	242.3	177.3	183.4	180.5
148	372.5	598.1	401.5	452.1	443.9	455.8	471.0	255.9	183.4	189.5	186.6

NOTES



Quick Selection Guide

Dimensions	Floor Sq. Ft.	+35 Room Usage		+30 Room Usage		0 Room Usage		-10 Room Usage		-20 Room Usage	
		Avg.	Hvy.	Avg.	Hvy.	Avg.	Hvy.	Avg.	Hvy.	Avg.	Hvy.
6 x 6 x 8	36	4750	6389	4488	6037	4583	6505	4929	7041	5274	7577
6 x 8 x 8	48	5417	7274	5119	6974	5225	7407	5630	8028	6034	8648
6 x 10 x 8	60	6055	8100	5722	7655	5806	8213	6265	8911	6725	9609
8 x 8 x 8	64	6188	8291	5848	7835	5934	8410	6405	9127	6876	9844
8 x 10 x 8	80	6954	9269	6572	8759	6631	9363	7165	10169	7699	10974
8 x 12 x 8	96	7669	10174	7247	9614	7273	10234	7867	11123	8461	12011
8 x 14 x 8	112	8366	11045	7905	10437	7922	11092	8575	12059	9227	13026
8 x 16 x 8	128	9051	11888	8553	11234	8528	11890	9237	12933	9946	13976
8 x 18 x 8	144	9748	12732	9212	12032	9169	12732	9936	13852	10702	14972
8 x 20 x 8	160	10419	13548	9846	12803	9755	13490	10576	14682	11397	15874
8 x 22 x 8	176	11540	14807	10905	13992	10817	14715	11692	15977	12567	17239
8 x 24 x 8	192	12224	15622	11552	14763	11386	15439	12314	16769	13242	18099
8 x 26 x 8	208	12874	16398	12166	15496	11976	16179	12955	17573	13935	18970
8 x 28 x 8	224	13519	17163	12775	16219	12530	16873	13562	18336	14594	19799
8 x 30 x 8	240	14187	17947	13407	19660	13108	17587	14191	19115	15274	20642
8 x 32 x 8	256	14824	18694	14009	17666	13653	18264	14786	19855	15920	21446
10 x 10 x 8	100	7789	10339	7361	9770	7386	10401	7990	11304	8594	12208
10 x 12 x 8	120	8626	11385	8152	10759	8138	11405	8809	12401	9481	13397
10 x 14 x 8	140	9439	12384	8920	11703	887	12405	9626	13493	10365	14581
10 x 16 x 8	160	10250	13379	9686	12643	9577	13311	10379	14484	11128	15658
10 x 18 x 8	180	11049	14349	10441	13560	10279	14216	11144	15472	12009	16728
10 x 20 x 8	200	11838	15299	11187	14458	10942	15070	11868	16405	12794	17741
10 x 24 x 8	240	13391	17180	12654	16207	12751	17231	13796	18721	14842	20211
10 x 28 x 8	280	14891	18922	14072	17881	14043	18844	15205	20482	16367	22120
12 x 12 x 8	144	10038	13021	9486	12305	8991	12553	9739	13655	10486	14756
12 x 14 x 8	168	10956	14155	10353	13376	10235	14052	11055	15251	11875	16450
12 x 16 x 8	192	11886	15284	11232	14443	11029	15082	11919	16375	12810	17667
12 x 18 x 8	216	12775	16359	12072	15459	11807	16080	12767	17464	13726	18847
12 x 20 x 8	240	13681	17440	12928	16481	12753	17052	13599	18524	14626	19995
12 x 22 x 8	264	14549	18474	13749	17458	13299	17974	14392	19541	15485	21088
14 x 14 x 8	196	11993	15423	11333	14575	11126	15216	12024	16521	12923	17826
14 x 16 x 8	224	13013	16656	12297	15740	11995	16338	12971	17745	13946	19152
14 x 20 x 8	280	15011	19042	14185	17795	13687	18487	14811	20088	15935	21688
14 x 24 x 8	336	16969	21347	16036	21073	15330	20539	16598	22324	17866	24110
16 x 16 x 8	256	14148	18019	13370	17028	13939	17550	13998	19067	15056	20583
16 x 20 x 8	320	16349	20631	15450	19496	14777	19873	15996	21598	17215	23323
16 x 24 x 8	374	18509	23157	17488	21883	16563	22093	17938	24017	19313	25941
18 x 18 x 8	324	16476	20782	15570	19639	14864	19989	16090	21724	17317	23460
18 x 20 x 8	360	18128	22644	17131	21398	16305	21678	17617	23523	18930	25369
18 x 24 x 8	432	20484	25389	19357	23993	18260	24090	19739	26149	21219	28208
20 x 20 x 8	400	19470	24145	18340	22817	17386	23019	18790	24982	20194	26945
20 x 24 x 8	480	21988	27132	20779	25640	19453	25566	21036	27755	22619	29945
20 x 28 x 8	560	24963	30480	23590	28804	21963	28514	23727	30922	25479	33330
20 x 32 x 8	640	27480	33340	25969	31506	23954	30909	25884	33529	27813	36149
20 x 36 x 8	720	29946	36127	28299	34140	25919	33251	28017	36077	30115	38903
20 x 40 x 8	800	32420	38904	30637	36764	27888	35575	30153	38603	32518	41631
24 x 40 x 8	960	38694	45735	36565	43878	34681	43023	37368	46538	39939	49937
28 x 40 x 8	1120	43183	50733	40808	48970	38123	47062	41095	50921	43650	54664
32 x 40 x 8	1280	48550	56318	45880	55056	42894	51900	46146	56580	49282	60656
36 x 40 x 8	1440	54344	62804	51355	61626	46254	56259	49872	60781	53194	65186
40 x 40 x 8	1600	58738	67611	55507	66608	49583	60073	53385	64916	57070	69642

* Heavy usage is defined as two times the average air change. Average air change determined by ASHRAE based on box size for 24 hour period.

Conversion Factors

MULTIPLY	BY	OBTAIN	MULTIPLY	BY	OBTAIN
atmospheres.....	76.0.....	cms mercury	Cu inches.....	16.3.....	cc
atm.....	29.92.....	ins mercury	cu ins.....	5.787 x 10-4....	cu ft
atm.....	33.90.....	ft water	cu ins.....	1.639 x 10-4....	cu meters
atm.....	1.0333.....	kgs/sq cm	cu ins.....	2.143 x 10-5....	cu yds
atm.....	14.70.....	lbs/sq in	cu ins.....	4.329 x 10-3....	gals
atm.....	1.058.....	tons/sq ft	cu ins.....	1.639 x 10-2....	liters
Barrels-Oil.....	42.....	gas-oil	cu ins.....	0.03463.....	pints (liq)
BT Units.....	0.2520.....	kgs-calories	cu ins.....	0.01732.....	quarts (liq)
BTU's.....	777.5.....	ft-lbs	Cu Meters.....	106.....	cc
BTU's.....	3.927 x 10-4....	hp-hrs	cu M.....	35.31.....	cu ft
BTU's.....	107.5.....	kg-meters	cu M.....	61.023.....	cu ins
BTU's.....	2.928 x 10-4....	kw-hrs	cu M.....	1.308.....	cu yds
BTU Min.....	12.96.....	ft-lbs/sec	cu M.....	264.2.....	gals
BTU/min.....	0.2356.....	hp	cu M.....	103.....	liters
BTU/min.....	0.01757.....	kw	cu M.....	2113.....	pints (liq)
BTU/min.....	17.57.....	watts	cu M.....	1057.....	quarts (liq)
Centimeters.....	0.3937.....	inches	Cu Yards.....	7.646 x 105....	cu cms
cm.....	0.01.....	meters	cu yds.....	27.....	cu ft
cm.....	10.....	mm	cu yds.....	46.656.....	cu ins
Cms Mercury.....	0.01316.....	atm	cu yds.....	0.7646.....	cu meters
cms mercury....	0.4461.....	ft water	cu yds.....	202.0.....	gals
cms mercury....	136.0.....	kgs/sq meter	cu yds.....	764.6.....	liters
cms mercury....	27.85.....	lbs/sq ft	cu yds.....	1616.....	pints (liq)
cms mercury....	0.1934.....	lbs/sq in	cu yds.....	807.9.....	quarts (liq)
Cms/Second.....	1.969.....	ft/min	Decimeters.....	0.1.....	meters
cms/second.....	0.03281.....	ft/sec	Degs (Angle).....	60.....	minutes
cms/second.....	0.036.....	km/hr	degs (angle).....	0.01745.....	radians
cms/second.....	0.6.....	meters/min	degs (angle).....	3600.....	secs
cms/second.....	0.02237.....	miles/hr	Degrees Sec.....	0.01745.....	radians/sec
cms/second.....	3.728 x 10-4....	miles/min	degs/sec.....	0.1667.....	revs/min
Cms/Sec/Sec.....	0.03281.....	ft/sec/sec	degs/sec.....	0.002778.....	revs/sec
Cubic Cms.....	3.531 x 10-5....	cu ft	Fathoms.....	6.....	ft
cu cms.....	6.102 x 10-2....	cu in	Feet.....	30.48.....	cms
cu cms.....	10-6.....	cu meters	ft.....	12.....	ins
cu cms.....	1.308 x 10-6....	cu yds	ft.....	0.3048.....	meters
cu cms.....	2.642 x 10-4....	gals	ft.....	1/3.....	yds
cu cms.....	10-3.....	liters	Ft of Water.....	0.02950.....	atms
cu cms.....	2.113 x 10-3....	pints (liq)	ft of w.....	0.8876.....	ins mercury
cu cms.....	1.057 x 10-3....	quarts (liq)	ft of w.....	0.08048.....	kgs/ sq cm
Cubic Feet.....	2.832 x 104....	cubic cms	ft of w.....	62.43.....	lbs/sq ft
cu ft.....	1728.....	cu inches	ft of w.....	0.4335.....	lbs/sq in
cu ft.....	0.02832.....	cu meters	Feet/Min.....	0.5080.....	cms/sec
cu ft.....	0.03704.....	cu yds	ft/min.....	0.01667.....	ft/sec
cu ft.....	7.48052.....	gals	ft/min.....	0.01829.....	kms/hrs
cu ft.....	28.32.....	liters	ft/min.....	0.3040.....	ms/min
cu ft.....	59.84.....	pints (liq)	ft/min.....	0.01136.....	miles/hr
cu ft.....	29.92.....	quarts (liq)	Ft/Sec/Sec.....	30.48.....	cms/sec/sec
Cu Ft/min.....	472.0.....	cu cms/sec	ft/sec/sec.....	0.3048.....	ms/sec/sec
cu ft/min.....	0.1247.....	gals/sec	Ft Pounds.....	1.286 x 10-3....	BTU's
cu ft/min.....	0.4720.....	liters/sec	ft lbs.....	5.050 x 10-7....	hp-hrs
cu ft/min.....	62.43.....	lbs w/min	ft lbs.....	3.241 x 10-4....	kg-calories
Cu Ft/Sec.....	0.646317.....	million gals/day	ft lbs.....	0.1383.....	kg-meters
cu ft/sec.....	448.831.....	gals/min	ft lbs.....	3.766 x 10-7....	kw-hrs



Conversion Factors

MULTIPLY	BY	OBTAIN	MULTIPLY	BY	OBTAIN
Ft-Lbs/Min.....	1.286 x 10-3....	BTUs/min	Ins or Water.....	0.002458.....	atms
ft-lbs/min.....	0.01667.....	ft-lbs/sec	ins of w.....	0.07355.....	ins mercury
ft-lbs/min.....	3.030 x 10-5....	hp	ins of w.....	0.002540.....	kgs/sq cm
ft-lbs/min.....	3.241 x 10-4....	kg-calories/min	ins of w.....	0.5781.....	ozs/sq in
ft-lbs/min.....	2.260 x 10-5....	kws	ins of w.....	5.202.....	lbs/sq ft
Ft-Lbs/Sec.....	7.717 x 10-3....	BTUs/min	ins of w.....	0.03613.....	lbs/sq in
ft-lbs/sec.....	1.818 x 10-3....	hp	Kilograms.....	980.665.....	dynes
ft-lbs/sec.....	1.945 x 10-2....	kg-calories	kgs.....	2.205.....	lbs
ft-lbs/sec.....	1.356 x 10-3....	kws	kgs.....	1.102 x 10-3....	tons (short)
Gallons.....	3785.....	ccs	kgs.....	103.....	grams
gals.....	0.1337.....	cu ft	Kgs/Sq Cm.....	0.9678.....	atms
gals.....	231.....	cu ins	kgs/sq cm.....	32.81.....	ft water
gals.....	3.784 x 10-3....	cu meters	kgs/sq cm.....	28.96.....	ins mercury
gals.....	3.785.....	liters	kgs/sq cm.....	20.48.....	lbs/sq ft
gals.....	8.....	pints (liq)	kgs/sq cm.....	14.22.....	lbs/sq ft
gals.....	4.....	quarts (liq)	Kiloliters.....	103.....	liters
Gallons, Imp.....	1.20095.....	US gals	Kilometers.....	105.....	cms
Gallons, US.....	0.83267.....	imp gals	kms.....	3281.....	ft
Gallons Water.....	8.3453.....	lbs water	kms.....	103.....	meters
Gallons/Min.....	2.228 x 10-3...	cu ft/sec	kms.....	0.6214.....	miles
gals/min.....	0.06308.....	liter/sec	Kms Hr.....	27.78.....	cms/sec
gals/min.....	8.0208.....	cu ft/hr	kms hr.....	54.68.....	ft/min
Gals Water/Min...	6.0086.....	tons water/24 hrs	kms hr.....	0.9113.....	ft/sec
Grams.....	.....	dynes	kms hr.....	16.67.....	meters/min
grams.....	.....	grains	kms hr.....	0.6214.....	miles/hr
grams.....	10-3.....	kgs	Kms/Hr Sec.....	27.78.....	cms/sec/sec
grams.....	103.....	milligrams	kms/hr sec.....	0.9113.....	ft/sec/sec
grams.....	0.03527.....	ozs	kms/hr sec.....	0.2778.....	Ms/sex/sec
grams.....	0.03215.....	ozs (troy)	Kilowatts.....	56.92.....	BTUs/min
grams.....	2.205 x 10-3....	lbs	kws.....	4.425 x 104....	ft-lbs/min
Grams/Cm.....	5.600 x 10-3....	lbs/in	kws.....	737.6.....	ft-lbs/sec
Grams/Cu Cm.....	62.43.....	lbs/cu ft	kws.....	1.341.....	hp
grams/cu cm....	0.03613.....	lbs/cu in	kws.....	14.34.....	kg-calories/min
Grams/Liter.....	58.417.....	grains/gal	kws.....	103.....	watts
grams/liter.....	8.345.....	lbs/1000 gals	Kilowatt-Hrs.....	3415.....	BTUs
grams/liter.....	0.062427.....	lbs/cu ft	kw-hrs.....	2.6655 x 106....	ft-lbs
grams/liter.....	1000.....	parts/million	kw-hrs.....	1.341.....	hp-hours
Horsepower.....	42.44.....	BTUs/min	kw-hrs.....	860.5.....	kg-calories
hp.....	33.000.....	ft-lbs/min	kw-hrs.....	3.671 x 105....	kg-meters
hp.....	550.....	ft-lbs/sec	Liters.....	103.....	ccs
hp.....	1.014.....	hp (metric)	liters.....	0.03531.....	cu ft
hp.....	10.70.....	kg-calories/min	liters.....	61.02.....	cu ins
hp.....	0.7457.....	kws	liters.....	10-2.....	cu meters
hp.....	745.7.....	watts	liters.....	0.2642.....	gals
Hp-Hours.....	2547.....	BTUs	liters.....	1.057.....	quarts (liq)
hp-hrs.....	1.98 x 106.....	ft-lbs	Liters/Min.....	4.403 x 10-3....	gals/sec
hp-hrs.....	641.7.....	kg-calories	Meters.....	100.....	cms
hp-hrs.....	2.737 x 105....	kg-metters	meters.....	3.281.....	ft
hp-hrs.....	0.7457.....	kw-hrs	meters.....	39.37.....	ins
Inches.....	2.540.....	cms	meters.....	10-3.....	kms
Ins Mercury.....	0.03342.....	atms	meters.....	103.....	mms
ins mercury.....	1.133.....	ft water	Meters/Min.....	1.667.....	cms/sec
ins mercury.....	0.03453.....	kgs/sq cm	meters/min.....	3.281.....	ft/min
ins mercury.....	70.73.....	lbs/sq ft	meters/min.....	0.05468.....	ft/sec
ins mercury.....	0.4912.....	lds/sq in	meters/min.....	0.06.....	kms/hr
			meters/min.....	0.03728.....	miles/hr

Conversion Factors

MULTIPLY	BY	OBTAIN	MULTIPLY	BY	OBTAIN
Meters/Sec.....	196.8.....	ft/min	Watts.....	0.05692.....	BTUs/min
meters/sec.....	3.281.....	ft/sec	watts.....	44.26.....	ft-lbs/min
meters/sec.....	3.6.....	kms/hr	watts.....	0.7376.....	ft-lbs/sec
meters/sec.....	0.06.....	kms/min	watts.....	1.341 x 10-3...	hp
meters/sec.....	2.237.....	miles/hr	watts.....	0.01434.....	kg-calories/min
meters/sec.....	0.03728.....	meters/min	watts.....	10-3.....	kws
Microns.....	10-6.....	meters	Watt-Hours.....	3.415.....	BTUs
microns.....	25.400.....	in	watt-hrs.....	2655.....	ft-lbs
Miles/Hr.....	44.70.....	cms/sec	watt-hrs.....	1.341 x 10-3...	hp-hrs
miles/hr.....	88.....	ft/min	watt-hrs.....	0.8605.....	kg-calories
miles/hr.....	1.467.....	ft/sec	watt-hrs.....	367.1.....	kg-meters
miles/hr.....	1.609.....	kms/hr	watt-hrs.....	10-3.....	kw-hrs
miles/hr.....	0.8684.....	knots			
miles/hr.....	26.82.....	meters/min			
Millimeters.....	0.1.....	cms			
mms.....	0.03937.....	ins			
Mins (Angle).....	2.909 x 10-4...	radians			
Ounces.....	16.....	drams			
ozs.....	437.5.....	grains			
ozs.....	0.0625.....	lbs			
ozs.....	28.349527.....	grams			
ozs.....	0.9115.....	ozs (troy)			
ozs.....	2.790 x 10-5...	tons (long)			
ozs.....	2.835 x 10-5...	tons (metric)			
Ozs (Fluid).....	1.805.....	cu in			
ozs (fluid).....	0.02957.....	liters			
Pounds.....	16.....	ozs			
lbs.....	256.....	drams			
lbs.....	7000.....	grains			
lbs.....	0.0005.....	tons (short)			
lbs.....	453.5924.....	grams			
lbs.....	1.21528.....	lbs (troy)			
lbs.....	14.5833.....	ozs (troy)			
Lbs of Water.....	0.01602.....	cu ft			
lbs of water.....	27.68.....	cu in			
lbs of water.....	0.1198.....	gals			
Lbs of w/Min.....	2.679 x 10-4...	cu ft/sec			
Pounds/Cu Ft.....	5.787 x 10-4...	lbs/cu in			
Pounds/Cu In.....	1728.....	lbs/cu ft			
Pounds/Sq In.....	0.06804.....	atms			
lbs/sq in.....	2.307.....	ft water			
lbs/sq in.....	2.036.....	in mercury			
lbs/sq in.....	0.07031.....	kgs/sq cm			
Radians.....	57.29578.....	degree			
Tons (Long).....	1016.....	kgs			
tons (long).....	2240.....	lbs			
tons (long).....	1.12000.....	tons (short)			
Tons (Short).....	2000.....	lbs			
tons (short).....	907.018486....	kgs			
tons (short).....	2430.56.....	lbs (troy)			
tons (short).....	0.89287.....	tons (long)			
tons (short).....	29166.66.....	ozs (troy)			
tons (short).....	0.90718.....	tons (metric)			



