MANITOWOC ICE
2110 SOUTH 26TH STREET, MANITOWOC, WI 54220
800-545-5720
WWW.MANITOWOCICE.COM

Service Bulletin

Subject: Technical Specifications

I1176C / ICVD1195

GENERAL SPECIFICATIONS			
Refrigerant Charge (R-404A)	Line Set Length: 0' to 50' (0 m to 15 m)	9 lbs (4.0 kg)	
	Line Set Length: 51' to 100' (15.5 m to 30 m)	Add 2 lbs (1.0 kg) Total: 11 lbs (5.0 kg)	
Line Set	RC26 RC36 RC56	Suction Line: 0.625 in (15.9 mm)	Liquid Line: 0.375 in (9.5 mm)
S-Trap Kit required on rises above 20' (6 m)	K-00172	0.625 in (15.9 mm) Tubing	
Ice Making Water Inlet	Water Inlet Connection - 0.375" FPT (Female Pipe Thread)	Water Temperature - Minimum 35°F (1.6°C) Maximum 110°F (43°C)	Water Pressure - Minimum 20 psig (1.38 bar) Maximum 80 psig (5.52 bar)
Condenser Water Inlet	Water Inlet Connection - 0.375" FPT (Female Pipe Thread)	Water Temperature - Minimum 35°F (1.6°C) Maximum 90°F (32°C)	Water Pressure - Minimum 20 psig (1.38 bar) Maximum 150 psig (10.34 bar)
Ice Making Water Drain	Connection - 0.5" FPT (Female Pipe Thread)		
Potable Water	19.8 gallons per 100 lbs of ice 75 liters per 45.5 kg of ice		
Compressor Nominal Rating	1.75 HP		
Heat of Rejection	Air Conditioning 16,250 BTU/hr (4,094 kcal/hr)	Peak 18,600 BTU/hr (4,687 kcal/hr)	
High Pressure Settings	Cut-in - 300 psig (20.7 bar)	Cut-out - 450 psig (31.0 bar)	
Operating Temperatures	**i1176C** Minimum 35°F (1.6°C) Maximum 110°F (43°C)	**iCVD1195** Minimum -20°F (-29°C) Maximum 120°F (49°C)	
Electrical 115V	**i1176C** 115V/60 Hz/1 Ph Max Fuse - 15 amp Total Amps - 1.1		
230V	**i1176C** 230V/50/1 Ph Max Fuse - 15 amp Total Amps - 1.5	**iCVD1195** 208-230V/60 Hz/1 Ph Max Fuse - 25 amp Min Circuit Amps - 14.2 amp	**iCVD1195** 208-230V/60 Hz/3 Ph Max Fuse - 15 amp Min Circuit Amps - 9.5 amp
Energy Usage Kwh / 100 lbs	Half Dice Models 4.84 Kwh	Dice Models 4.98 Kwh	
Dimensions	**Height**	**Width**	**Depth**
i1176C	26.5 in (673 mm)	30.0 in (762 mm)	24.5 in (622 mm)
iCVD1195	26 in (654 cm)	34.0 in (864 mm)	24.0 in (537 mm)

Installation on a Manitowoc Bin

Bin	Adapter / Ice Deflector
B-970	K-00369
C-900 / C-950	K-00156
C-970	K-00157
F700/F1300/F1325/F1650/FC1350	K-00347

24 Hour Ice Production

Air Temperature Around the Unit	Water Temperature		
	50°F 10°C	**70°F 21°C**	**90°F 32°C**
70°F 21°C	875 lbs 397 kgs	825 lbs 374 kgs	750 lbs 340 kgs
80°F 27°C	825 lbs 374 kgs	785 lbs 356 kgs	720 lbs 327 kgs
90°F 32°C	785 lbs 356 kgs	755 lbs 342 kgs	685 lbs 311 kgs
100°F 38°C	735 lbs 333 kgs	720 lbs 327 kgs	650 lbs 295 kgs
110°F 43°C	705 lbs 320 kgs	690 lbs 313 kgs	605 lbs 274 kgs

Operating Pressures - Freeze Cycle

Air Temperature Around the Unit	Discharge Pressure	Suction Pressure
50°F 10°C	200-250 psig 13.8-17.2 bar	40-30 psig 2.8-2.1 bar
70°F 21°C	220-255 psig 15.2-17.6 bar	50-30 psig 3.5-2.1 bar
80°F 27°C	230-260 psig 15.9-17.9 bar	50-30 psig 3.5-2.1 bar
90°F 32°C	240-290 psig 16.5-20.0 bar	55-31 psig 3.8-2.1 bar
100°F 38°C	275-345 psig 19.0-23.8 bar	60-32 psig 4.1-2.2 bar
110°F 43°C	310-380 psig 21.4-26.2 bar	65-32 psig 4.5-2.2 bar

Operating Pressures - Harvest Cycle

Air Temperature Around the Unit	Discharge Pressure	Suction Pressure
50°F 10°C	155-180 psig 10.7-12.4 bar	70-85 psig 4.8-5.9 bar
70°F 21°C	155-180 psig 10.7-12.4 bar	70-90 psig 4.8-6.2 bar
80°F 27°C	155-180 psig 10.7-12.4 bar	70-95 psig 4.8-6.6 bar
90°F 32°C	155-180 psig 10.7-12.4 bar	75-105 psig 5.2-7.2 bar
100°F 38°C	160-200 psig 11.0-13.8 bar	90-115 psig 6.2-7.9 bar
110°F 43°C	160-210 psig 11.0-14.5 bar	100-120 psig 6.9-8.3 bar