MANITOWOC ICE
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Service Bulletin

Subject: Technical Specifications

RNS1078C / RCU1098

GENERAL SPECIFICATIONS			
Refrigerant Charge (R-404A)	Line Set Length: 0' to 50' (0 m to 15 m)	10 lbs (4.5 kg)	
	Line Set Length: 51' to 100' (15.5 m to 30 m)	Add 2 lbs (1.0 kg) Total: 12 lbs (5.4 kg)	
Line Set	RC21 RC31 RC51	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 45°F (7.2°C) Maximum 90°F (32.2°C)	Water Pressure - Minimum 20 psig (1.4 bar) Maximum 70 psig (4.8 bar)
Ice Making Water Drain	Connection - 0.75" MPT (Male Pipe Thread)		
Potable Water	12 gallons per 100 lbs of ice 45.4 liters per 45.4 kg of ice		
Compressor Nominal Rating	1.75 HP		
Heat of Rejection	Air Conditioning 7,500 BTU/hr (1,890 kcal/hr)	Peak 14,000 BTU/hr (3,528 kcal/hr)	
High Pressure Settings	Cut-in - 300 psig (20.7 bar)	Cut-out - 450 psig (31.0 bar)	
Operating Temperatures	**RNS1078C** Minimum 50°F (14.4°C) Maximum 100°F (43°C)	**RCU1098** Minimum -20°F (-29°C) Maximum 120°F (49°C)	
Electrical 115V	**RNS1078C** 115V/60 Hz/1 Ph Max Fuse - 15 amp Total Amps - 2.9		
230V	**RNS1078C** 230V/60 Hz/1 Ph Max Fuse - 15 amp Total Amps - 1.4	**RCU1098** 208-230V/60 Hz/1 Ph Max Fuse - 15 amp Min Circuit Amps - 15 amp	**RCU1098** 208-230V/60 Hz/3 Ph Max Fuse - 15 amp Min Circuit Amps - 15 amp
Energy Usage Kwh / 100 lbs	4.50 Kwh		
Dimensions	**Height**	**Width**	**Depth**
RNS1078C	27.36 in (700 mm)	22.0 in (559 mm)	23.6 in (600 mm)
RCU1098	25.75 in (654 mm)	34.0 in (864 mm)	24.1 in (613 mm)

Installation on a Manitowoc Bin

Bin	Adapter / Ice Deflector
B-970	K-00368
F-1300/F-1325 F-1650/FC-1350	K-00420

24 Hour Ice Production

Air Temperature Around the Unit	Water Temperature	
	50°F 10°C	**70°F 21°C**
70°F 21°C	1131 lbs 513 kgs	---
90°F 32°C	---	900 lbs 408 kgs

Operating Pressures

Air Temperature Around the Unit	Discharge Pressure	Suction Pressure
70°F 21°C	235 psig 16.2 bar	30.5 psig 2.1 bar
90°F 32°C	305 psig 21.0 bar	33.9 psig 2.3 bar
110°F 43°C	380 psig 26.2 bar	38.5 psig 2.7 bar