MANITOWOC ICE
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Service Bulletin

Subject: Technical Specifications

RNS1000A / RNS1000W

GENERAL SPECIFICATIONS			
Refrigerant Charge (R-404A)	**RNS1000A** 23.3 oz (660 g)	**RNS1000W** 18.0 oz (510 g)	
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 (138 kPa) Maximum 70 psig (483 kPa)
Ice Making Water Drain	Connection - 0.5" 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	1.5 HP		
Heat of Rejection	Air Conditioning 7,500 BTU/hr (1,890 kcal/hr)	Peak 10,900 BTU/hr (2,750 kcal/hr)	
High Pressure Settings	Cut-in - 300 psig (20.7 bar)	Cut-out - 450 psig (31.0 bar)	
Operating Temperatures	Minimum 50°F (14.4°C) Maximum 100°F (37.8°C)		
Electrical	**RNS1000A** 230V/60 Hz/1 Ph Max Fuse - 20 amp Min Circuit Amps - 14.2 amp	**RNS1000W** 230V/60 Hz/1 Ph Max Fuse - 20 amp Min Circuit Amps - 13.7 amp	
Energy Usage Kwh / 100 lbs	**Air-cooled** 5.41 Kwh	**Water-cooled** 4.04 Kwh	
Dimensions	**Height**	**Width**	**Depth**
	27.36 in (70.0 cm)	30.0 in (76.0 cm)	23.6 in (60.0 cm)

Installation on a Manitowoc Bin

Bin	Adapter / Ice Deflector
B-970	K-00370
C-900/C-950	K-00156
C-970	K-00157
F-1300/F-1325 F-1650/FC-1350	K-00420

RNS1000A - AIR-COOLED MODELS

24 Hour Ice Production

Air Temperature Around the Unit	Water Temperature	
	50°F 10°C	**70°F 21°C**
70°F 21°C	1078 lbs 489 kgs	---
90°F 32°C	---	825 lbs 374 kgs

Operating Pressures

Air Temperature Around the Unit	Discharge Pressure	Suction Pressure
70°F 21°C	235 psig 16.2 bar	31 psig 2.1 bar
90°F 32°C	305 psig 21.0 bar	34 psig 2.3 bar
110°F 43°C	380 psig 26.2 bar	39 psig 2.7 bar

RNS1000W - WATER-COOLED MODELS

24 Hour Ice Production

Air Temperature Around the Unit	Water Temperature	
	50°F 10°C	**70°F 21°C**
70°F 21°C	1158 lbs 525 kgs	---
90°F 32°C	---	960 lbs 435 kgs

Operating Pressures

Air Temperature Around the Unit	Discharge Pressure	Suction Pressure
70°F 21°C	235-245 psig 16.2-16.9 bar	29-31 psig 2.0-2.1 bar
90°F 32°C	235-245 psig 16.2-16.9 bar	29-31 psig 2.0-2.1 bar
110°F 43°C	240-260 psig 16.5-17.9 bar	30-36 psig 2.1-2.5 bar

Water Consumption (Water-cooled Condenser Only)

131 Gallons per 100 lbs of Ice (496 Liters per 45.4 kgs of Ice)
Water Regulating Valve set to maintain 240 psig (16.5 bar) discharge pressure