MANITOWOC ICE
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# Service Bulletin

## Subject: Technical Specifications

**RNS0600A / RNS0600W**

| GENERAL SPECIFICATIONS | | | |
|---|---|---|---|
| **Refrigerant Charge (R-404A)** | **RNS0600A**<br>18.34 oz (520 g) | **RNS0600W**<br>16.9 oz (479 g) | |
| **Ice Making Water Inlet** | Water Inlet Connection -<br>0.375" FPT (Female Pipe Thread) | Water Temperature -<br>Minimum 37°F (3.0°C)<br>Maximum 90°F (32.2°C) | Water Pressure -<br>Minimum 14 psig (96.5 kPa)<br>Maximum 80 psig (551.1 kPa) |
| **Ice Making Water Drain** | Connection -<br>0.5" MPT (Male Pipe Thread) | | |
| **Potable Water** | 12 gallons per 100 lbs of ice<br>45.4 liters per 45.4 kg of ice | | |
| **Compressor Nominal Rating** | 1.0 HP | | |
| **Heat of Rejection** | Air Conditioning<br>5,200 BTU/hr<br>(1,310 kcal/hr) | Peak<br>7,700 BTU/hr<br>(1,940 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)<br>Maximum 110°F (43.0°C) | | |
| **Electrical<br>Air-cooled** | 115V/60 Hz/1 Ph<br>Max Fuse - 15 amp<br>Min Circuit Amps - 8.2 amp | 230V/60 Hz/1 Ph<br>Max Fuse - 15 amp<br>Min Circuit Amps - 8.7 amp | |
| **Electrical<br>Water-cooled** | 115V/60 Hz/1 Ph<br>Max Fuse - 25 amp<br>Min Circuit Amps - 15.4 amp | 230V/60 Hz/1 Ph<br>Max Fuse - 25 amp<br>Min Circuit Amps - 16.3 amp | |
| **Energy Usage<br>Kwh / 100 lbs** | **Air-cooled**<br>6.36 Kwh | **Water-cooled**<br>4.67 Kwh | |
| **Dimensions** | **Height** | **Width** | **Depth** |
| | 26.0 in (66.0 cm) | 22.0 in (56.0 cm) | 23.6 in (60.0 cm) |

**Installation on a Manitowoc Bin**

| Bin | Adapter / Ice Deflector |
|---|---|
| B-170/B-400/B-570 | K-00365 |
| B-970 | K-00368 |
| C-730 | K-00117 |
| F-1300/F-1325<br>F-1650/FC-1350 | K-00420 |

## RNS0600A - 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** | 591 lbs 268 kgs | --- |
| **90°F 32°C** | --- | 451 lbs 204 kgs |

### Operating Pressures

| Air Temperature Around the Unit | Discharge Pressure | Suction Pressure |
|---|---|---|
| **70°F 21°C** | 220 psig 15.2 bar | 28 psig 1.9 bar |
| **90°F 32°C** | 285 psig 19.7 bar | 30 psig 2.1 bar |
| **110°F 43°C** | 365 psig 25.2 bar | 33 psig 2.3 bar |

## RNS0600W - 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** | 613 lbs 278 kgs | --- |
| **90°F 32°C** | --- | 508 lbs 230 kgs |

### Operating Pressures

| Air Temperature Around the Unit | Discharge Pressure | Suction Pressure |
|---|---|---|
| **70°F 21°C** | 235-245 psig 16.2-16.9 bar | 22-29 psig 1.5-2.0 bar |
| **90°F 32°C** | 235-245 psig 16.2-16.9 bar | 27-29 psig 1.9-2.0 bar |
| **110°F 43°C** | 240-260 psig 16.5-17.9 bar | 28-32 psig 1.9-2.2 bar |

### Water Consumption (Water-cooled Condenser Only)

| |
|---|
| 118 Gallons per 100 lbs of Ice (447 Liters per 45.4 kgs of Ice) |
| Water Regulating Valve set to maintain 240 psig (16.5 bar) discharge pressure |