

# Rental Services

## 200 Ton Explosion Proof Chiller



Class 1 Division 2  
General - RSEC0200F0

**Model Number:** RTAC0200

**Nominal Tons:** 200

**Refrigerant:** R134A

**Refrigerant Charge (Ckt 1/Ckt2):** 215 lbs/215 lbs

**Oil Charge (Ckt 1/Ckt2):** 215 lbs/215 lbs

**Water Connection Size:** 6 in. Victaulic

**Min Load:** 30 Tons<sup>1</sup>

**Water Volume:** 50 Gal

**Ambient Operating Conditions:** 0°F – 125°F

**Chiller Water Set Point Limits<sup>2</sup>:** 10°F - 60°F

**Number of Electrical Circuits:** 1

**Number of Refrigerant Circuits:** 2

**Number of Compressors:** 2

<sup>1</sup>Must maintain minimum flow across evaporator to avoid damage/fouling.

<sup>2</sup>When leaving solution is below 40°F, a glycol solution is required for all low temperature and ice-making applications.



### Electrical Data – Circuit Breaker Style Disconnect

**Voltage:** 460V 3 Phase

**Frequency:** 60Hz

**Wire Connection Type:** Series 16 Cam Type Only<sup>3</sup>

**SCCR:** 5000A

<sup>3</sup>If using rental 4/0 wire, multiple conductors per phase required.

### Without Integral Pump

**Minimum Circuit Ampacity(MCA):** 417A

**Maximum Overcurrent Protection(MOP):** 500A

**Full Load Amps(FLA):** 375A

### With Integral Pump

**Minimum Circuit Ampacity(MCA):** 435A

**Maximum Overcurrent Protection(MOP):** 600A

**Full Load Amps(FLA):** 392.6A

### Cooling Capacity (Tons)

Leaving Water Temp	Leaving Brine Temp	Capacity in Tons				
		Ambient Air Temp				
		85°F	95°F	105°F	115°F	125°F
60°F		277.9	258.9	236.7	205.8	152.6
55°F		257.5	240.2	220.7	195.3	150.3
45°F		218.4	203.6	187.1	169.1	143.4
	40°F	199.8	186.2	171.0	154.3	136.7
	30°F	164.3	152.9	140.3	125.8	110.4
	20°F	131.1	121.9	111.2	98.9	85.7
	10°F	97.4	90.6	81.6	71.7	61.1

### Dimension and Weights Including Pump Package

Length	21' 4"
Width	8' 5"
Height	9' 1"
Shipping Weight	15,620 lbs
Operating Weight	16,100 lbs
Fork Pocket Dimensions	9 1/2" x 3 5/8"
Center to Center Distance of Fork Pockets	60'

Lifting Device: Forklift or Crane

**24hr Trane Rental Customer Service:**

**800-755-5115**

## Water Flow Rates vs. Pressure Drops in Evaporator

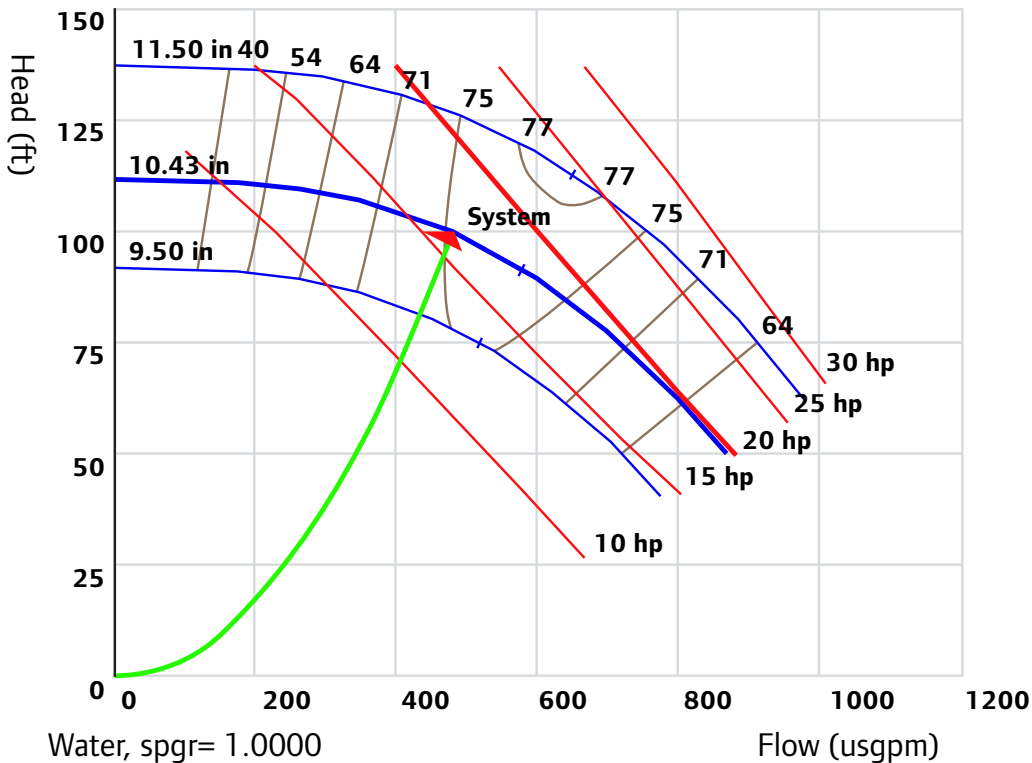
Flow (GPM)	Pressure Drop (ft. H <sub>2</sub> O)*
217 (minimum)	3.4
285	5.7
350	8.4
415	11.4
480 (nominal)	12.5
545	18.7
610	22.9
675	27.6
796 (maximum)	37.4

\*Assumes water as fluid type  
Maximum water side pressure is 150 psi (2.31 ft H<sub>2</sub>O = 1 psi)

## 20 HP Onboard Pump Curve

### Series 4380

5x5x11.5 @ 1780 rpm



---Motor Data---  
Motor Size: 20 hp

---Design Duty Points---  
Flow: 480 USgpm  
Head: 100 ft  
Impeller: 10.43 in

---Performance Data---  

- NPSHR: 6.86 ft
- Eff. @ Design: 74.50%
- BHP @ Design: 16.27 hp
- Mtr Capability @ Rated Spd: 20.00
- %Mtr Safety: 22.92%
- BEP @ Design Imp: 75.2%
- %maxImp.range: 46.61%
- Outlet velocity: 7.7 ft/s



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