

# Rental Services

## 100 Ton Explosion Proof Chiller



Class 1 Division 2

**Model Number:** CGAM0100

**Nominal Tons:** 100

**Refrigerant:** R410A

**Refrigerant Charge:** 98lbs

**Oil Charge (Ckt 1/Ckt2):** 2.91 Gal/2.91 Gal

**Water Connection Size:** 4 in. Victaulic

**Min Load:** 25 Tons<sup>1</sup>

**Water Volume:** 15 Gal

**Ambient Operating Conditions:** -20°F – 125°F

**Chiller Water Set Point Limits<sup>2</sup>:** 0°F - 65°F

**Number of Electrical Circuits:** 1

**Number of Refrigerant Circuits:** 2

**Number of Compressors:** 4

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

<sup>2</sup>When leaving solution is below 42°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

**SCCR:** 5000A

### Without Integral Pump

**Minimum Circuit Ampacity(MCA):** 206A

**Maximum Overcurrent Protection(MOP):** 225A

**Full Load Amps(FLA):** 193.6A

### With Integral Pump

**Minimum Circuit Ampacity(MCA):** 222A

**Maximum Overcurrent Protection(MOP):** 250A

**Full Load Amps(FLA):** 211.6A

### 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
65°F		138.7	129.7	120.6	111.5	102.3
55°F		119.9	112.2	104.3	96.3	88.3
45°F		101.9	95.4	88.7	81.8	74.9
	40°F	92.7	86.9	80.8	74.5	68.2
	30°F	76.4	71.7	66.6	61.4	56.0
	20°F	61.8	58.0	53.8	49.5	n/a
	10°F	61.5	57.7	53.6	49.3	n/a

### Dimension and Weights Including Pump Package

Length	16' 11"
Width	8' 3"
Height	8' 11"
Shipping Weight	9,620 lbs
Operating Weight	9,750 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:**

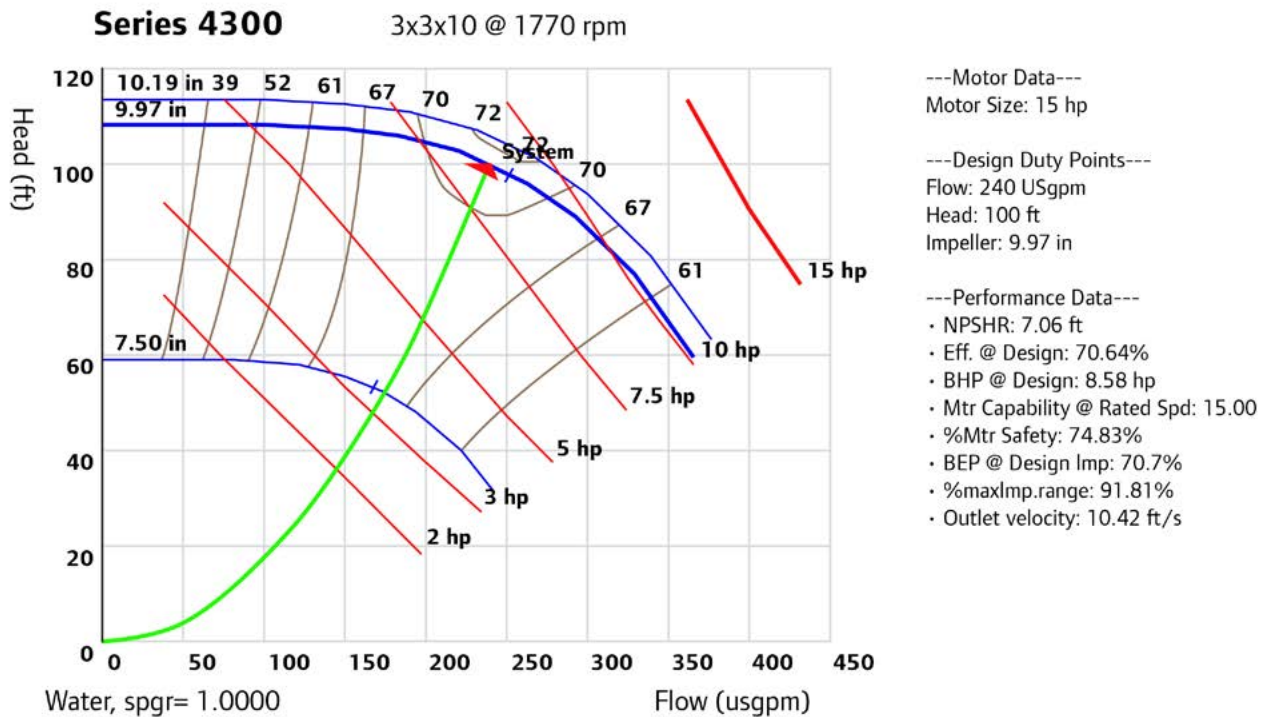
**800-755-5115**

## Water Flow Rates vs. Pressure Drops in Evaporator

Flow (GPM)	Pressure Drop (ft. H <sub>2</sub> O)*
116 (minimum)	4.2
150	6.9
180	9.7
210	13.1
240 (nominal)	14.9
265	20.4
290	24.3
315	28.6
347 (maximum)	34.4

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

## 15 HP Onboard Pump Curve



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