

## 10 Ton Air Cooled Chiller

Dual Circuit Model



### General

CAT / CLASS	XXX-XXX
Unit Model Number	STAC10D-R
Equipment Insurance Value	NA
Fluid Connections	2" Quick Connections (Cam & Groove)
No. of Refrigeration Circuits	Two (2)
Process Pump	2.0HP (24 gpm)

### Dimensions

Length (Base)	90"
Width	56"
Height	72"
Unit Weight	1,800 Lbs.

### Electrical

Certification	ETL / UL 1995 / CSA 236 STD 22.2
Single Point Power Supply	460V/3PH/60HZ
Connections	Single point Series 16 Cam-Lok connections
Compressor RLA	10 A each, QTY 2
Unit RLA	29 A (460V)
MCA	32 A (460V)

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## Product Data

### Unit Features:

- Two, (2), 10 HP Copeland Scroll Compressors with Suction Accumulators
- Dual circuit operation:
  - Chiller is composed of (2) 5 ton circuits
  - Chiller can be run as a 5 ton chiller by isolating 1 circuit
- Hot gas bypass on all circuits
- 1x2 fan configuration with (2) Low noise fan blades
- 0.006" thick E-COAT coated industrial condenser coil
- Integral hydronic components including:
  - 2.0 HP process pump designed to deliver 24gpm @ 140'TDH
    - Capable of flow from 15 to 35 gpm
  - Suction Strainer
  - Suction isolation valve
  - Valving to allow bypass of pump
  - Nema 4 Flow Switch
- Unit capable of operating between +20°F to 100°F ambient temperatures

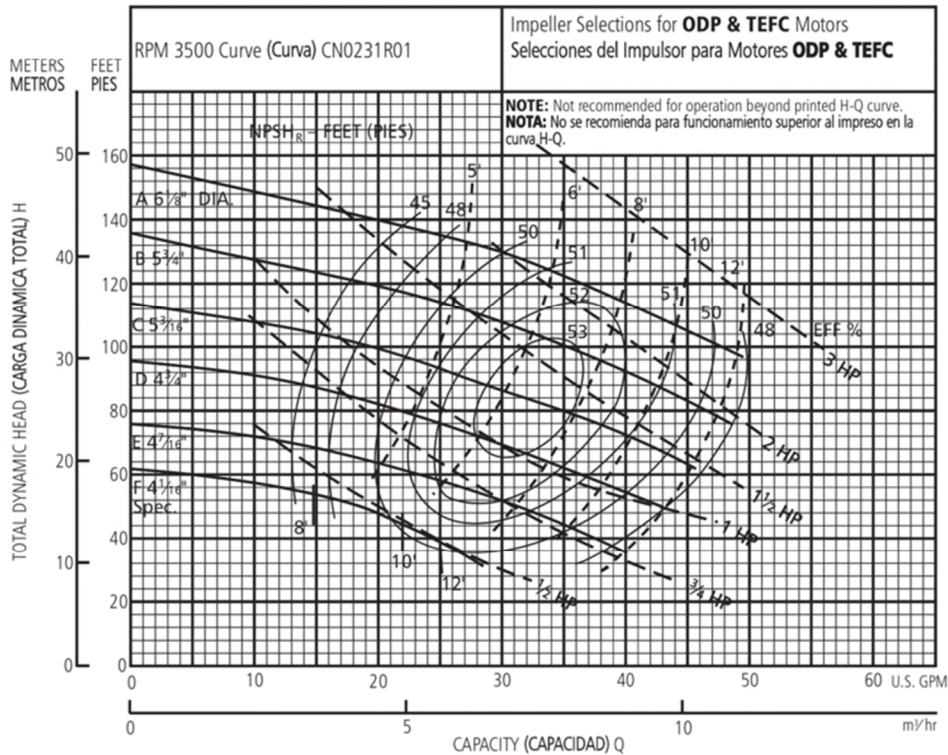
### Package Features:

- Phase monitor and Incorrect phase indicator light (red)
- Flow switch with No Flow light
- Circuit Breakers on all motors
- High and low pressure safety switches
- R-407c refrigerant
- Full rental frame with fork pockets
  - Over-head strap SS supports
- Overhead lift frame
- Entering and leaving air temperature sensors
- Quiet operation
- Hose bib connections for fill & drain
- Installed Emergency stop

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## Process Pump Curve (2.0 HP)

### Performance Curves – 60 Hz, 3500 RPM Curvas de desempeño – 60 Hz, 3500 RPM



Ordering Code, Código de Pedido	Standard HP Rating, Capacidad HP estándar	Imp. Dia.
A	2	6 1/8

## Operator Panel Instructions

Description: Portable dual circuit chiller with pump

**STEP 1:** Determine if application will require the integral chiller pump included on the skid, or if the application requires a field pump.

Follow the instructions on the black and yellow tags to ensure fluid side isolation valves are in the right position

**STEP 2:** Check the fluid-side inlet strainer. Clean if needed.

**STEP 3:** Verify that all access panels are installed on the unit. Note: if condenser access panels are removed the unit will not run (it will likely trip a safety)

**STEP 4:** Confirm that all circuit breakers are in the on position. There are both single and 3 pole circuit breakers on the unit (all should be in the ON position)

**STEP 5:** Apply power to the unit:

\*\*\*\*\* The unit is Equipped with a voltage and phase monitor relay. The device protects against over and under voltage, imbalance, and incorrect phasing. If any items are not within the devices power requirements the INCORRECT POWER light will be lit. The device also has a minimum 15 second start-up timer (light will be powered for the first 15 seconds on start). If INCORRECT POWER light is lit after 90 seconds, correct incorrect power situation.

**STEP 6:** If using the onboard integral pump, turn the pump switch to the on position. Allow the pump to run for 5 minutes to establish constant flow before enabling cooling.

**STEP 7:** If the units is provided with compressor (circuit 1 & circuit 2) isolation switches, turn the switches to the on positions. Than set the A350 cooling controller to the desired temperature. The controller controls off return (entering) fluid temperature

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Notes: the unit has multiple safeties. Many are manual reset including: refrigerant high pressure, refrigerant low pressure, motor overloads and circuit breakers.

TAG	SERVES	SETTING:
FC	FREEZE STAT	38°F
1HP	HIGH PRESSURE TRIP	375# / manual reset
1LP	LOW PRESURE TRIP	50# / 40# differential
PMR	PHASE MONITORING	460V/ 3% UNBAL 5 sec FAULT DELAY/15 sec RESTART DELAY

## Unit Drawings

