

Unit Performance/Data



**General**

CAT / CLASS	XXX-XXX
Unit Model Number	SCOD100AR4
Equipment Insurance Value	100,000.00
Fluid Connections	4" QC Connections (Supply/Return)
No. of Refrigeration Circuits	Three (3)
Process Pump	15HP (240gpm)

**Dimensions**

Length (Base)	180"
Width	88"
Height	99-3/4"
Unit Weight	14,200 Lbs.

**Electrical**

Certification	ETL / UL 1995 / CSA 236 STD 22.2 / ASME / CRN
Single Point Power Supply	460V/3PH/60HZ
Connections	Single point Series 16 Cam-Lok connections
Compressor RLA	48 A
Unit RLA	187.2 A (460V)
MCA	199.0 A (460V)

# 100 Ton Air Cooled Chiller

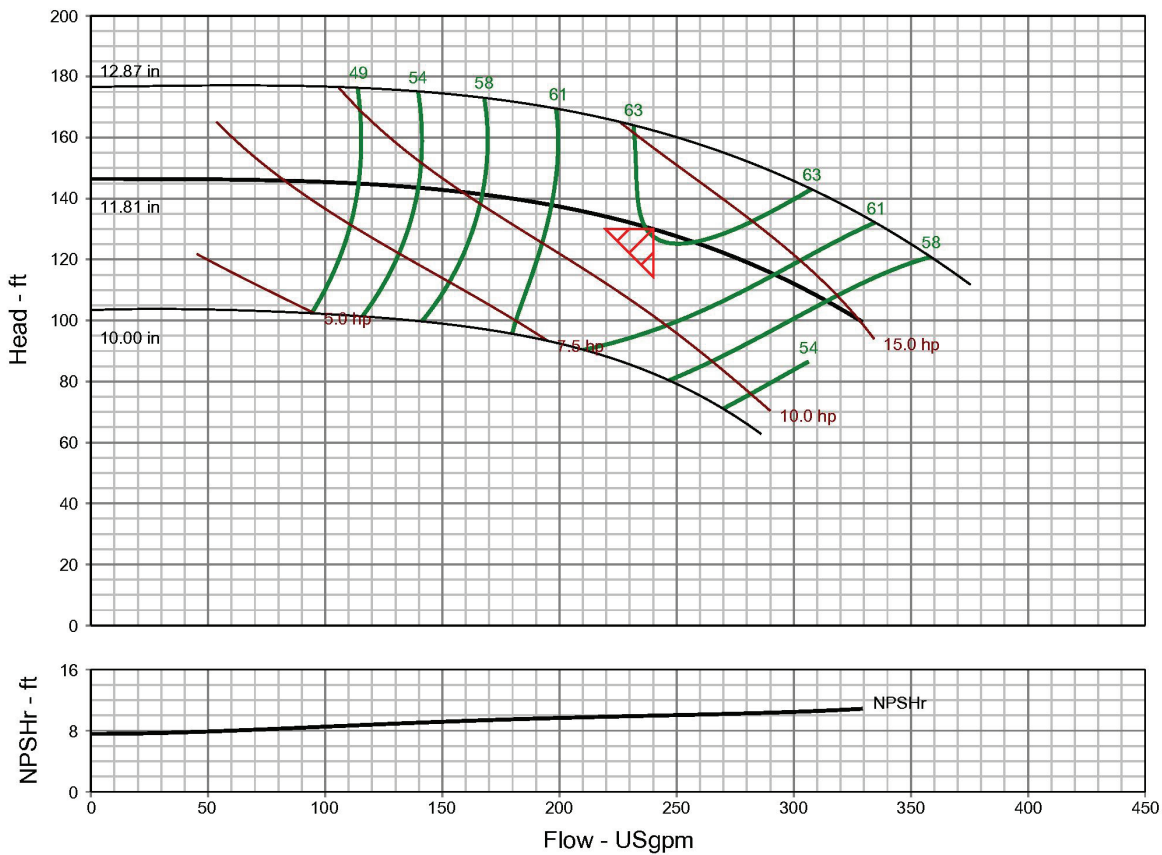
## Unit Features:

- Three Independent Refrigeration Circuits
- Three 38HP Copeland Scroll Compressors with Suction Accumulator on each circuit
- Hot gas bypass on each circuit
- Industrial DX Shell & Tube evaporator
- 2x3 fan configuration with (6) Low noise fan blades & motors as well as VFD control with optional bypass switch to run off standard fan cycle switching
- 0.006" thick hydrophilic coated, non-lanced aluminum condenser fins
- Integral hydronic components including:
  - 15HP process pump designed to deliver 240gpm @ 130"TDH
    - Capable of flow from 160 to 300 gpm
  - Triple duty valve
  - Suction Strainer
  - Suction isolation valve
  - Valving to allow bypass of pump
  - Vibration isolator on suction & discharge of pump
  - Nema 4 Flow Switch
- Stainless steel hardware with nylon lock-nuts
- Unit capable of operating between +10°F to 105°F ambient temperatures

## Package Features:

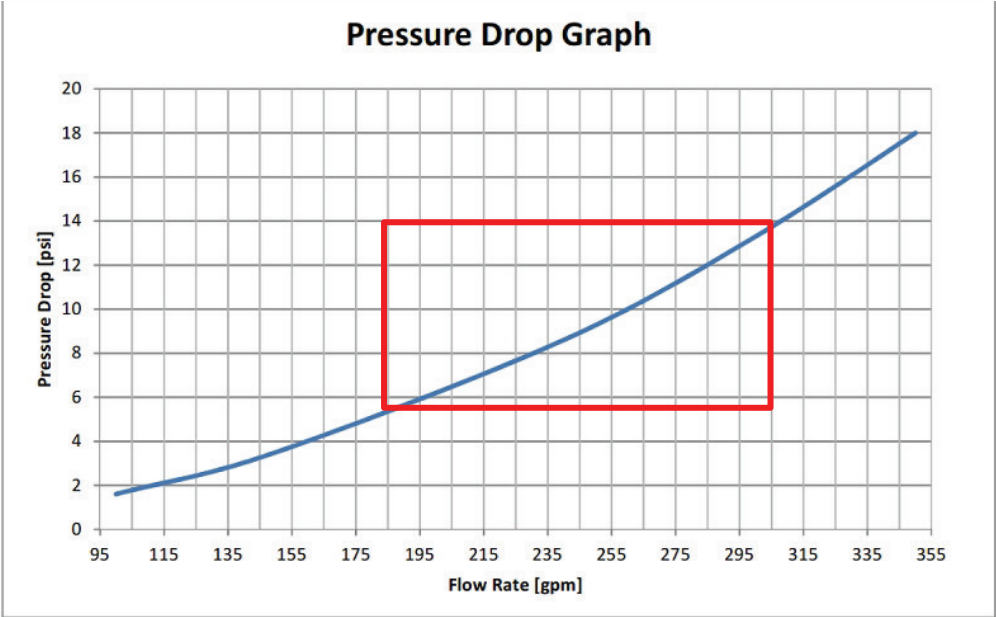
- Phase monitor and Incorrect phase indicator light (red)
- Flow switch (or differential switch) with No Flow light
- Circuit Breakers on all motors
- Condenser fan VFD's allow for operation in varying ambient conditions
- High and low pressure safety switches
- R-410a refrigerant
- Full tubular rental frame with fork pockets & tie-down points
  - Hot-dipped galvanized
- Overhead certified lift frame
- Entering and leaving air temperature sensors
- Quiet operation
- Optional automatic air vents
- Standard vent/drain connections
- Separated 460V/120V control panels

# Process Pump Curve (15HP)



# Evaporator Pressure Drop Curve

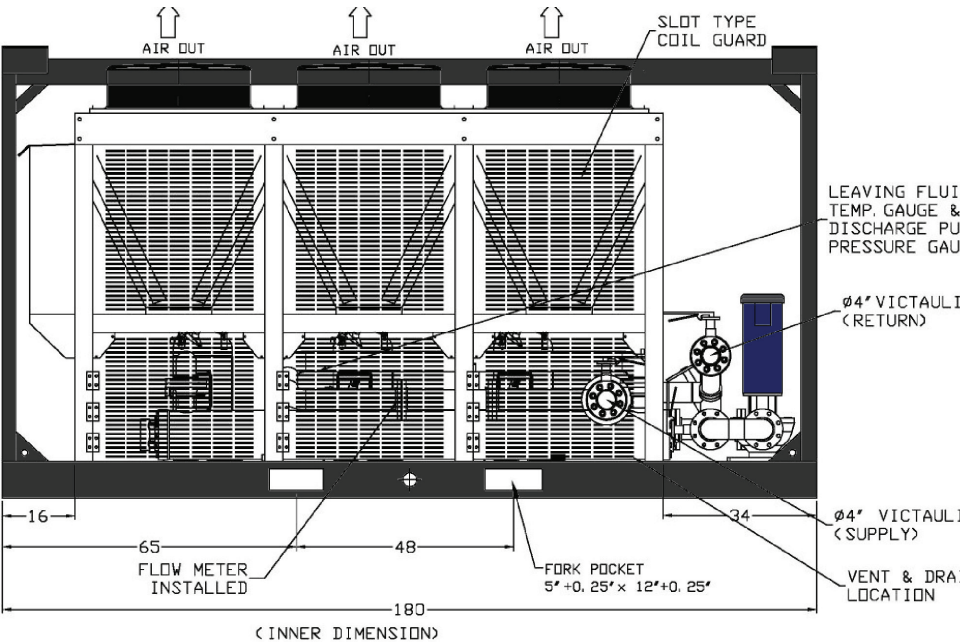
E-HEX27100	
Water exit = 45°F	
Flow Rate [gpm]	Pressure Drop [psi]
100	1.6
150	3.5
240	8.6
300	13.3
350	18



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## Unit Drawings

Side View



End View

