

# 80 TON AC/DEHUMIDIFIER W/ VFD



The outdoor rated Smart Family 80ton is a powerful and versatile portable air conditioning system that has the ability to provide cooling, heating and dehumidification for construction, industrial & commercial applications.

The variable frequency drive provides precise fan speed control and can be adjusted based on load requirements. With 8" max external static pressure it is possible to condition hard to reach spaces. Additionally, this unit can operate on 100% outside air when return air duct runs are not feasible.

## TECHNICAL SPECS

BTU / Hr Input	960,000 (80ton)
Voltage	460V
Phase	3
Cooling Amps	147.1A @ 460V
Connections	Cam-lok
Air Delivery	4,200 CFM - 17,000 CFM
Blower	30hp TEFC Direct Drive
Compressor	Scroll
Supply Air Outlet	(2) 20" Round
Return Air Inlet	(4) 20" Round

## TECHNICAL SPECS

Condenser Outlet	N/A
Filter Type	2" Washable Media
Weight	8200 lbs
Dimensions	136"L x 88"W x 98"H
Forklift Pockets	YES (Both Ends)
Lifting Eyes	YES
Casters	NO
Condensate Pump	N/A
Cerifications	ETL, UL, CSA

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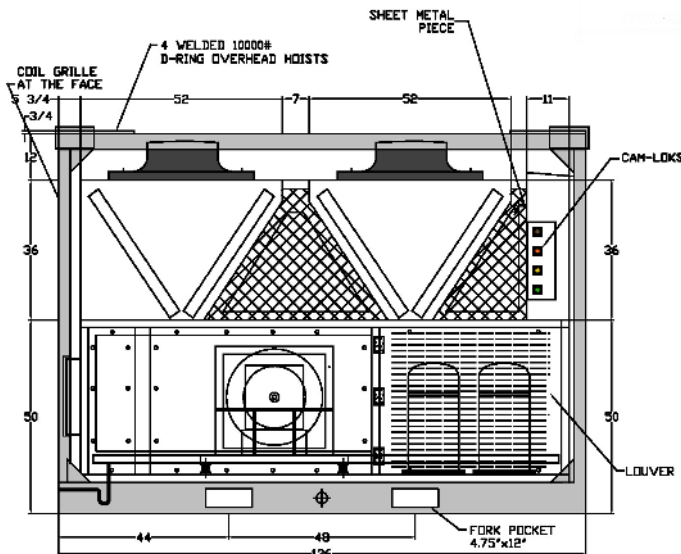
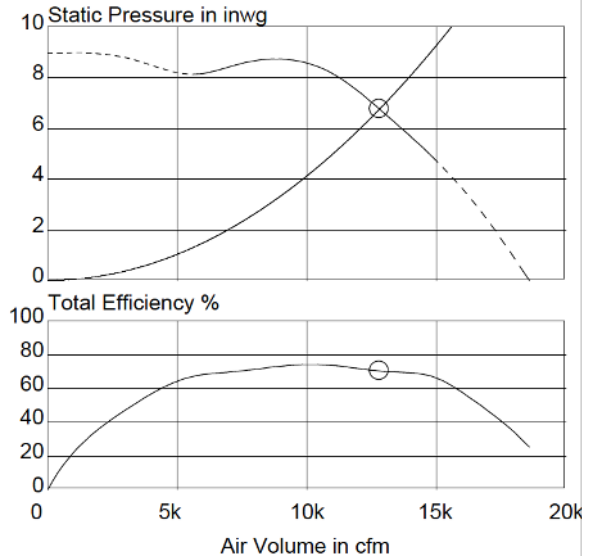
## Industrial AC unit (with heat and DH mode)

### Unit Features:

- Single 38HP Copeland Scroll Compressor per circuit, 2 total
- Direct drive High Static plenum fan 30hp TEFC motor
- Maximum rated static pressure of 8.0 in-wg
- Rated cooling air flow of 12,800 cfm with 100% Outside Air
- Air flow range of 4,200 – 17,000 cfm
- Hydrophilic coated, non-lanced condenser fins
- Hydrophilic coated evaporator fins
- Stainless steel hardware
- Stainless Steel drain pan
- Unit capable of operating between +35°F - 105°F ambient temps
- Permanently installed drain pan P-trap (protected within unit base)

### Package Features:

- Phase monitor and Incorrect phase indicator light (red)
- Circuit Breakers on all motors
- Blower VFD with inline starter and bypass switch
- Speed Potentiometer for Blower VFD to adjust speed 30Hz to 69Hz
- 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
- Cooling unit may run in HAND (manual) MODE of LOCAL (via PLC control) MODE
  - Unit can control off supply or return air temperature via RS/SA switch
- Duct Doors factory installed for all supply/return connections
- Quiet operation



End View

