



**SMART FAMILY OF
COOLING PRODUCTS**
281-540-2805 | www.SmartCoolingProducts.com

Industrial Rental AC Unit



575V Available!

General:

| | |
|-----------------------|-----------------------------------|
| Manufacturer | Smart Family of Cooling Products |
| Unit Model Number | SACP81A-HS |
| Duct/Hose Connections | (2) 20" Supply / (4) x 20" Return |
| Unit Dimensions | 136"L x 88"W x 98"H |
| Unit Ship Weight | 8,200 lbs |

Electrical: Certification

| | |
|---------------------------|--|
| Single Point Power Supply | UL Listed components |
| Connections | 460V/3PH/60HZ |
| Cooling Amps | Single point Series 16 Cam-Lok connections |
| Unit MCA | 147.1 A (460V) |
| Unit MFS/MOCP | 160 A |
| | 200 A |

* Heating is optional for this model. Heat units can run in heat mode, cooling mode, or DH mode. Heating models are 20" longer than standard models (total dimensions are 156" X 88" X 98")



Industrial Rental A/C Unit

Product Data

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
- 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 from 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 or LOCAL (via PLC control) MODE
 - ✓ Unit can control off supply or return air temperature via RA/SA switch
- Duct Doors factory installed for all supply/return connections
- Quiet operation

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Operating procedure

STEP 1: Confirm that 8CB (control circuit breaker within the panel) is ON and 1PL (control power light) is lit.

- If not, check PMR (phase monitor relay) and ES (emergency stop) button.
- If PMR (device inside power panel) red LED is lit, check phase rotation and voltage setting.

STEP 2: Check that 1SW (unit on/off switch) is in the ON position and 2PL (blower run light) is lit.

- If not, check 5CB (blower circuit breaker).

STEP 3: Set blower running speed using SPD ADJ POT (potentiometer)

STEP 4: 4SW (Clg probe selection switch)

- Turn 4SW to RA - Cooling is based on return air control.
- Turn 4SW to SA - Cooling is based on supply air control.

STEP 5: Compressor Selector Switch, 2SW, and 3SW

- Turn 2SW and 3SW to select OFF, LOCAL ,HAND or REMOTE
- OFF - Compressor is switched off.
- LOCAL - Compressor is operating with local controller.
- HAND - Compressor is operating in manual mode without the controller (manual on).
- REMOTE - Compressor is operating in remote mode without the controller (on/off by remote thermostat)

It is the customer's responsibility to always follow the written operating instructions of the unit and maintain safe work practices.

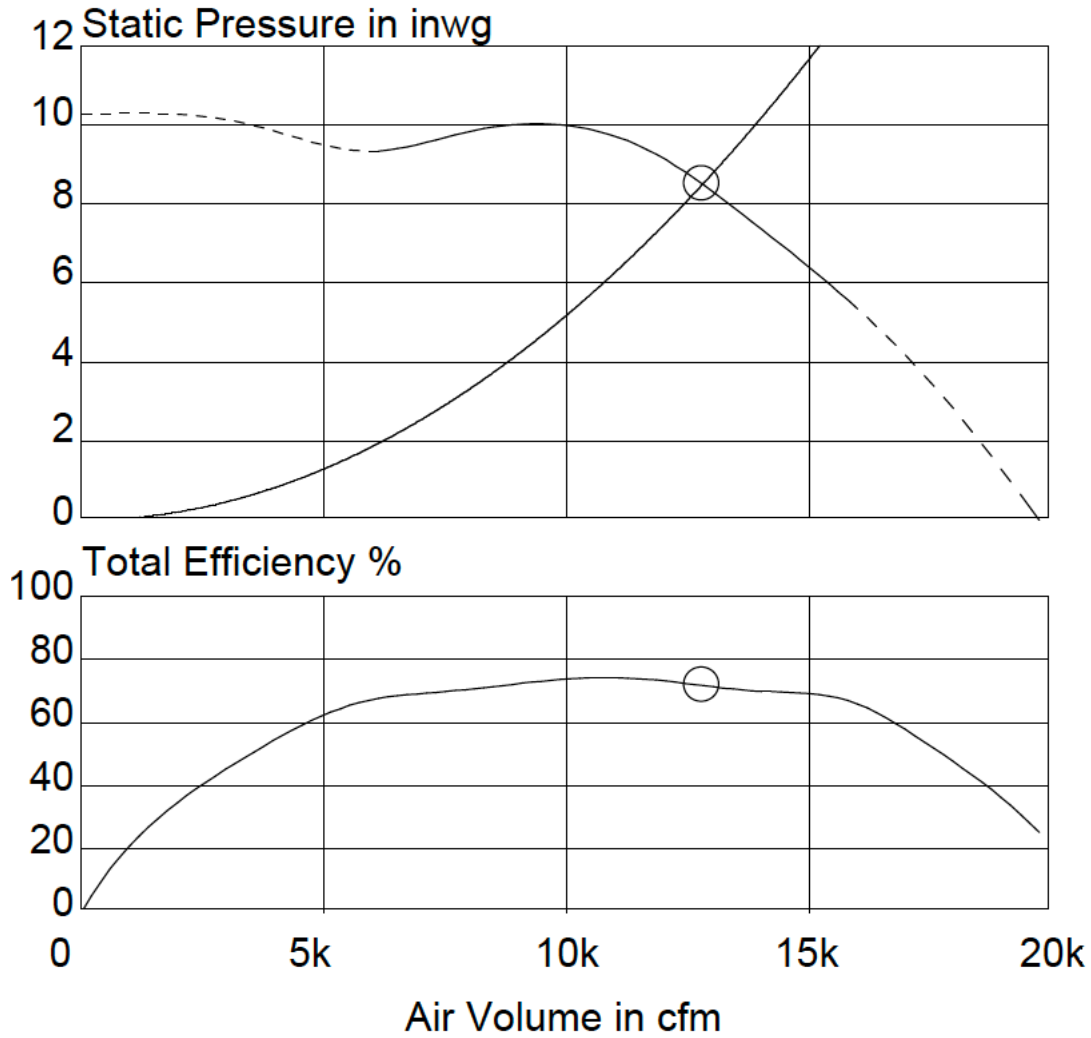
| TAG | SERVES | FLA/MCA | SETTING:(460/3/60) |
|-----------|--------------------|---|--------------------|
| 7CB | MAIN CB | 147.1 | 200 |
| 1CB & 3CB | COMPRESSOR CB | 48 | 63 |
| 2CB & 4CB | CONDENSER FANS CB | 8.4 (for 2) | 13 |
| 5CB | BLOWER CB | 34.3 | 40 |
| 6CB | TRANS CB | 1.1 | 4 |
| 1HP | HIGH PRESSURE TRIP | 560# / manual reset | |
| 2HP | FAN STAGE 1 | 350# / 55# differential | |
| 3HP | FAN STAGE 2 | 400# / 55# differential | |
| 1LP | LOW PRESURE TRIP | 65# / 40# differential | |
| PMR | PHASE MONITORING | 460V/ 3% UNBAL 1sec FAULT DELAY/100sec RESTART DELAY | |

For more details, contact:
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Blower Data:

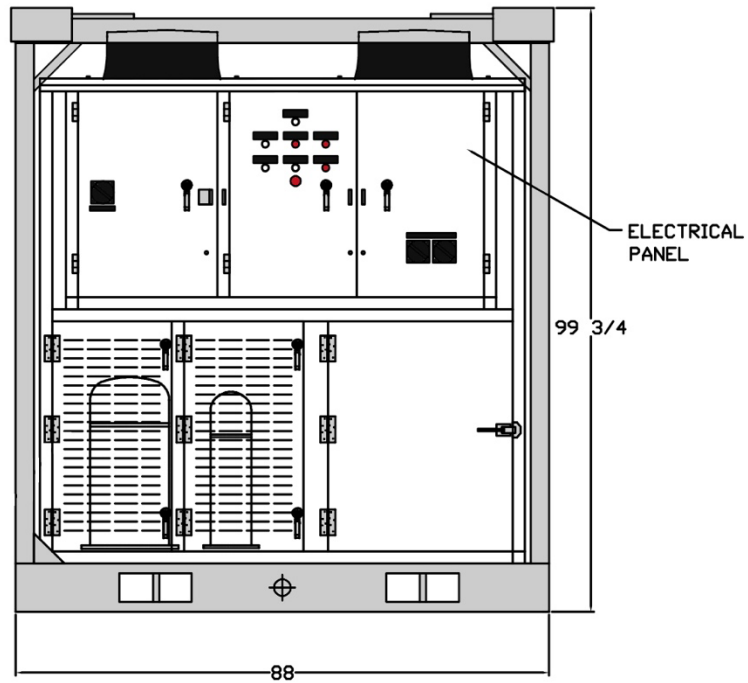
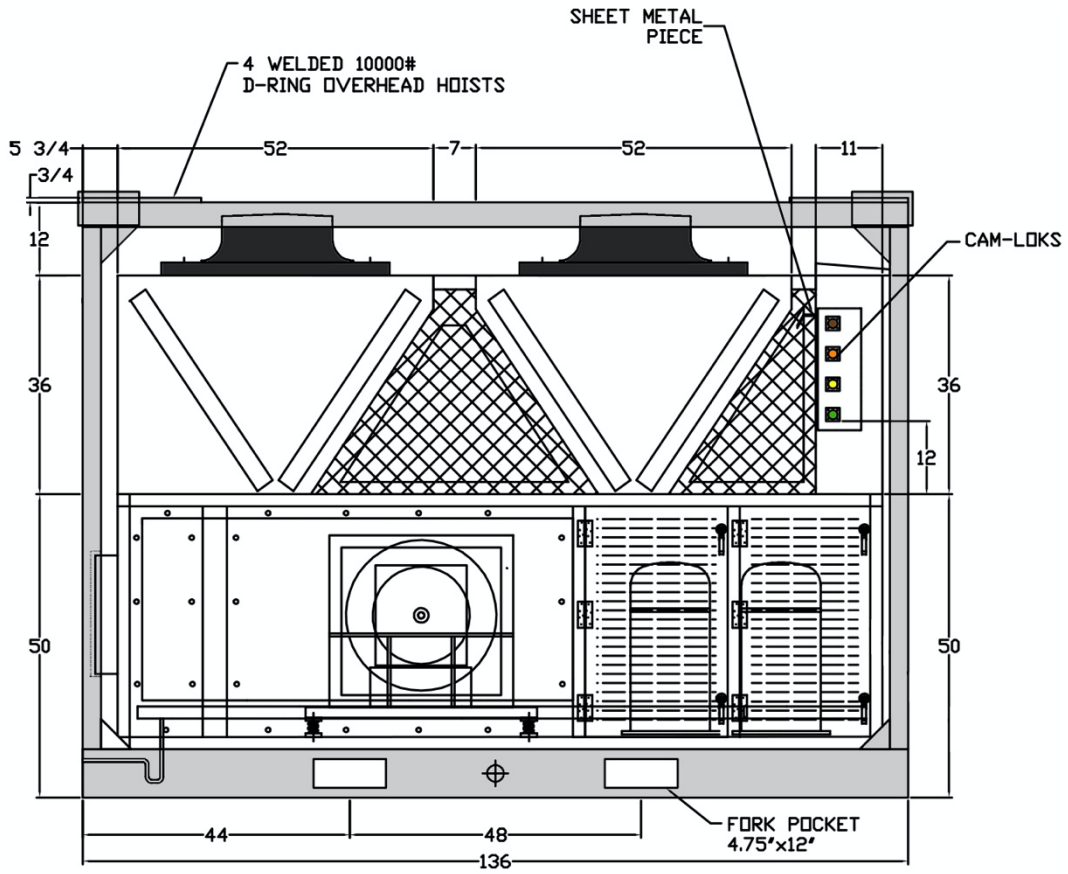
60HZ curve below. Unit may be operated above 60HZ in VFD mode



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Unit Drawings:



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