

50 Ton Rental Air Handling Unit

Unit Performance/Data



General

CAT / CLASS	XXXX-XX
Manufacturer	Smart Family of Cooling Products
Unit Model Number	SMTAH1D050Q
Equipment Insurance Value	NA
Duct/Hose Connections	(2) 20" Supply / (2) x 20" Return
Filter Size	QTY (4) 24" x 24"
Filter Type	2" Washable Media

Dimensions

Length (Base)	76"
Width	84"
Height	72 1/4"
Unit Weight	4,000 Lbs.

Electrical

Certification	ETL listed for UL 1995, CSA 236 STD 22.2
Single Point Power Supply Connections	460V/3PH/60HZ
Cooling Amps	Single point Series 16 Cam-Lok connections
Unit MCA	17.3 A (460V)
Unit MFS	22 A
Generator Size	32 A
	30kW

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Unit Features:

- Direct drive High Static plenum fan with 10hp TEFC motor
- Maximum rated static pressure of 8.0 in-wg
- Rated cooling air flow of 6,400 cfm with 100% Outside Air
- Air flow range of 4000 – 9,000 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
- 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 VFD or BYPASS mode
- Duct Doors factory installed for all supply/return connections
- Quiet operation

Operation procedure:

STEP 1: Confirm that circuit breaker (3CB) is switched ON and CONTROL POWER pilot light (1PL) is lit.

- If not, check phase monitor relay (PMR) and emergency stop (ES) button.
- If INCORRECT PHASE pilot light (2PL) is lit, check PMR for phase rotation and voltage setting.

STEP 2: Turn VFD/OFF/BYP switch (1SW) to require blower operating mode.

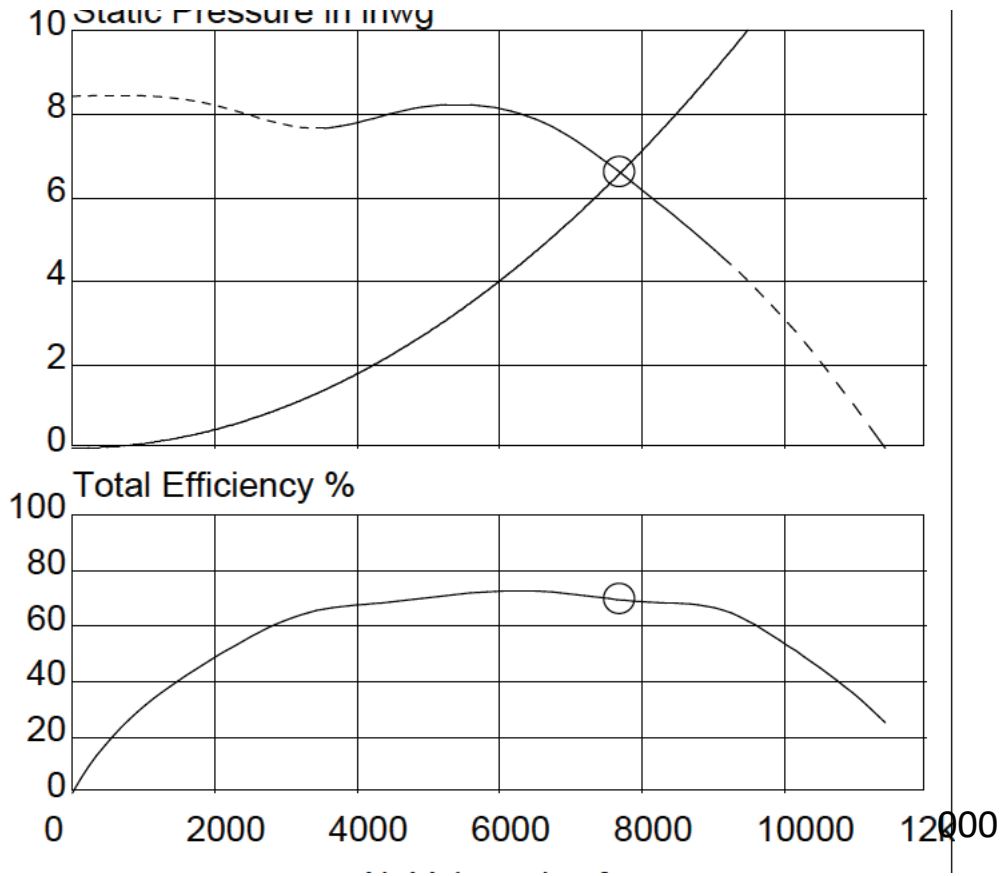
- VFD RUNNING pilot light (3PL) lit if blower is started using VFD.
- BYPASS RUNNING pilot light (5PL) lit if blower is started using bypass starter.
- Check blower circuit breaker overload (1OL) or VFD status if BLOWER TRIP pilot light (4PL) is lit.

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

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

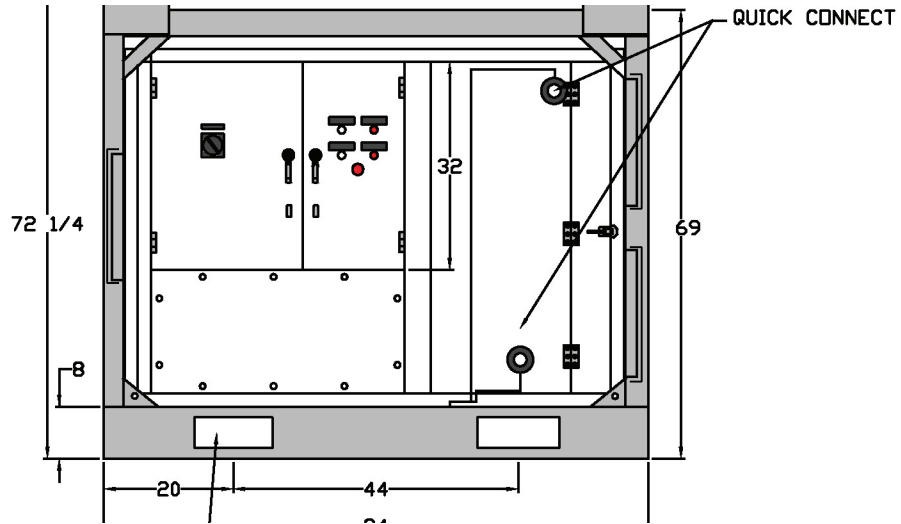
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Blower Data : 60HZ curve below. Unit may be operated above 60HZ in VFD mode



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Unit Drawings



Front View

