10 TON AIR CONDITIONER

SPECIFICATIONS

Model AC10HS-XX
Manufacturer . . . . . Smart Family of Cooling Products
Unit Model Number. SLIC12R-MS
Equipment Insurance Value. . . . . NA
Duct/Hose Connections. . . . . (2) 12" Supply / (2) x 12" Ret
Condenser Connections. . . . . (1) 20" Sup
Blower motor. 5hp (4KW)
Filter Data. . . . . QTY (2) 25" X 16" X 2"
Filter Type. . . . . 2" Washable Media

Dimensions
Length (Base). . . . . 95 1/2" (80")
Width. . . . . 35"
Height. . . . . 72 5/8"
Unit Weight (Estimated). . . . . 2,200 Lbs.
Compressor type. . . . . Scroll

TECHNICAL DATA

Electrical Data	
Certification	ETL, UL 1995 – CSA 236 STD 22.2
Single Point Power Supply	**460V/3PH/60HZ**
Connections	Single point Series 16 Cam-Lok connections
Unit Full Load Amps	28.7 A (460V)
Unit MCA	32 A
Unit MFS	50 A
Generator Size	31kW

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UNIT FEATURES

- Single Copeland Scroll Compressor
- Evaporator provided with a single direct drive plenum fan with 5hp TEFC motor
- Condenser provided with twin direct drive plenum fans with 5hp TEFC motor
- Rated cooling air flow of 4,000 cfm of recalculated air
- Air flow range of 1,500 – 4,500 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 - 115°F ambient temperatures

PACKAGE FEATURES:

- Removable pinned casters for portable operation
- 35" unit width for ease getting through standard 3' doorways
- 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

- Lift rings for overhead lift
- Duct Doors factory installed for all supply/return connections
- Quiet operation

OPERATOR PANEL OPERATION PROCEDURE

STEP 1: Confirm that 6CB (control circuit breaker within the panel) is switched 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: Establish airflow by turning 1SW on.

- If not, check blower C.
- Adjest SPD ADJ POT to desired airflow.

STEP 3: Turn COOLING switch (5SW) to the ON position

- Verify that the desired cooling stages turn on.

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

UNIT SETTINGS AND SAFETIES

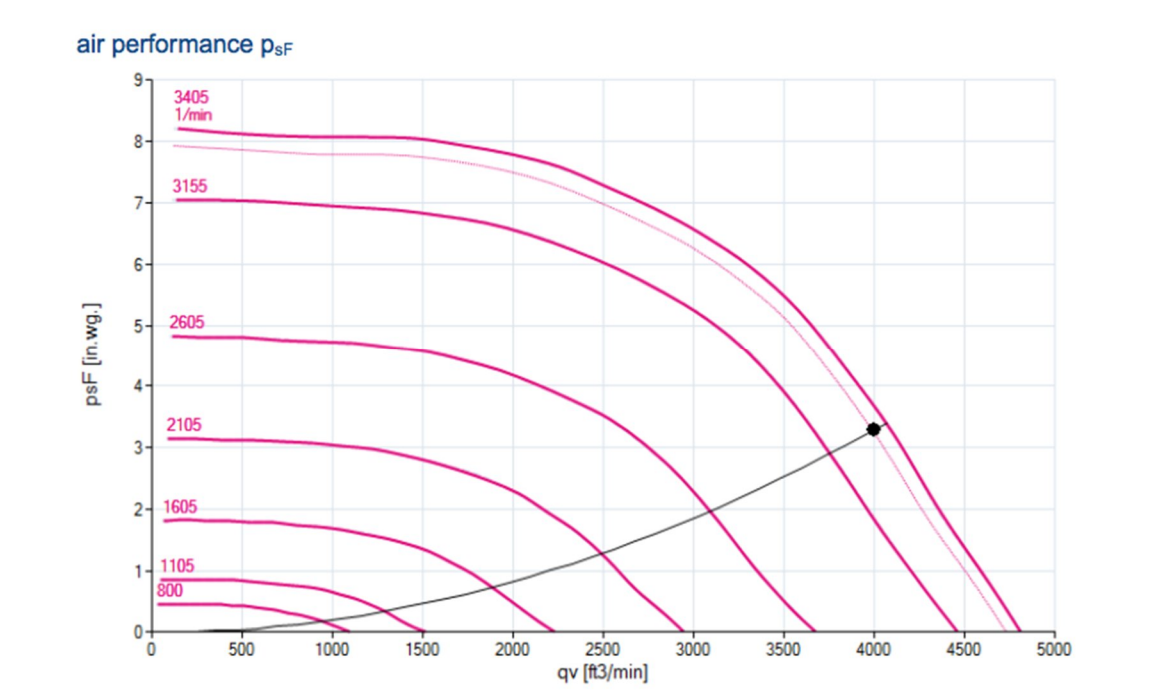
TAG	SERVES	FLA/MCA	SETTING:(460/3/60)
7CB	MAIN CB	28.7	50
1CB	COMPRESSOR CB	13.7	25
2CB	CONDENSER FANS CB	5	6
3CB	BLOWER CB	5	6
4CB	TRANS CB	1.1	4
1HP	HIGH PRESSURE TRIP	240# / manual reset	
2HP	FAN STAGE 1	145# / 30# differential	
3HP	FAN STAGE 2	145# / 30# differential	
1LP	LOW PRESURE TRIP	13# / 20# differential	
PMR	PHASE MONITORING	460V/ 3% UNBAL 1sec FAULT DELAY/100sec RESTART DELAY	

PERFORMANCE DATA - COOLING

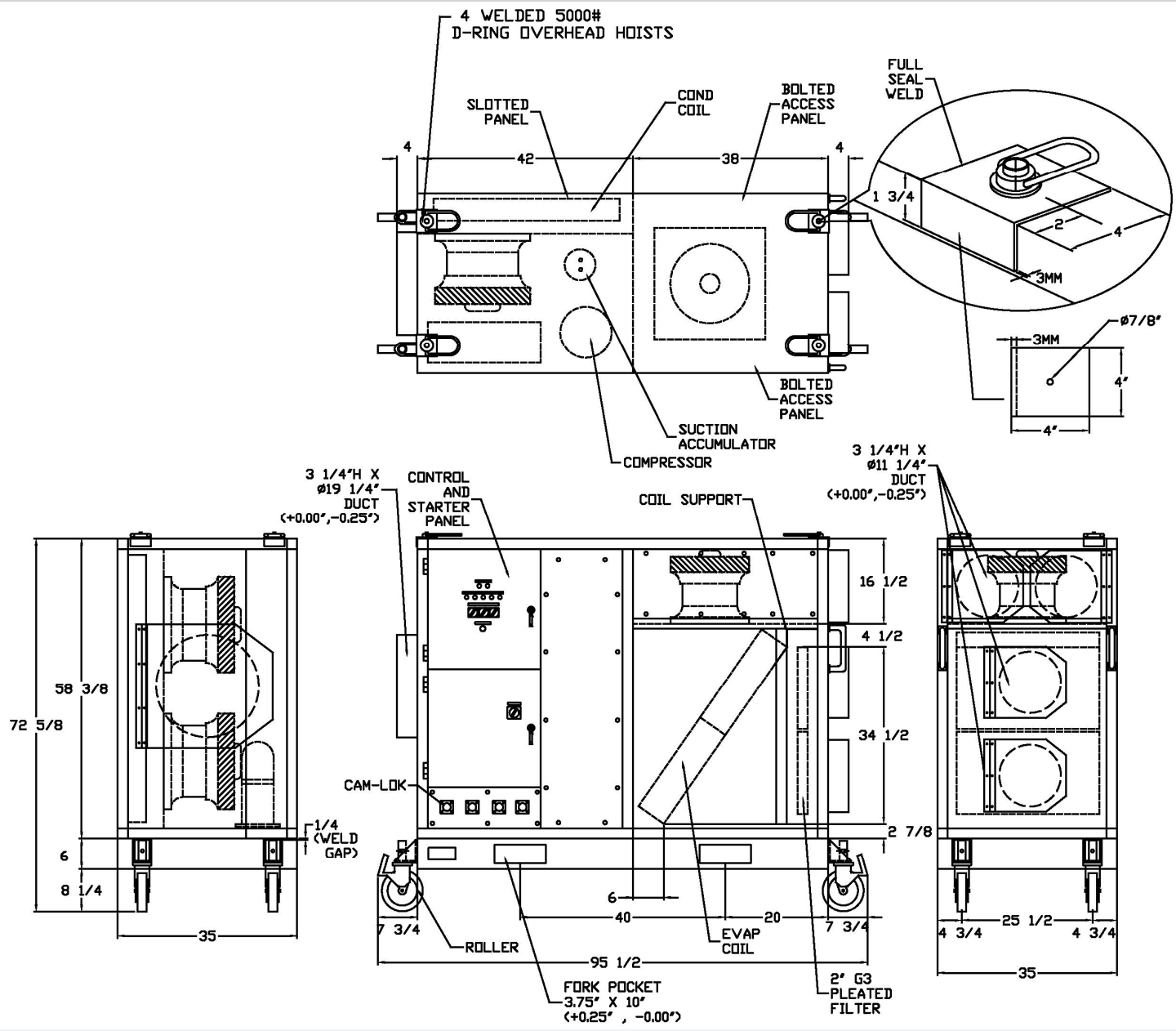
RETURN AIR CONDITIONS			BLOWER PERFORMANCE		LEAVING AIR CONDITIONS		CAPACITY OF UNIT (MBH)		
DRY BULB	WET BULB	TEMP DROP ACROSS COIL	TSP (static pres.)	SCFM	DRY BULB	WET BULB	SENSIBLE	LATENT	TOTAL
95	80	33	5.7	4000	62	62	142	140	282

Equipment specifications are based manufactures published data; capacity may vary based upon field conditions
All Data is “off coil” temperatures, and as such, does not include blower heat

BLOWER DATA



UNIT DRAWINGS



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