Unit Report For 48TCEM08A2A5-0A0A0_Submittal

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11/20/2019 Prepared By: 03:39PM

Unit Parameters

Unit Model:	48TCEM08A2A5-0A0A0
Unit Size:	08 (7.5 Tons)
Volts-Phase-Hertz:	208-3-60
Heating Type:	Gas
	ertical Supply / Vertical Return
Medium Heat	
Round Tube Plate F	in Coils

Lines and Filters

Gas Line Size:	3/4
Condensate Drain Line Size:	3/4
Return Air Filter Type:	Throwaway
Return Air Filter Quantity:	4
Return Air Filter Size:	16 x 20 x 2

Unit Configuration

Medium Static Option (Belt Drive) Al/Cu - Al/Cu Base Electromechanical Controls Standard Packaging

Warranty Information

1-Year parts(std.)

5-Year compressor parts(std.)

10-Year heat exchanger - Aluminized(std.)

15-Year heat exchanger - Stainless Steel(std.)

No optional warranties were selected.

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

Ordering Information

Part Number	Description	Quantity
48TCEM08A2A5-0A0A0	Rooftop Unit	1
	Base Unit	
	Medium Static Option (Belt Drive)	
	Electromechanical control, No intake or exhaust option.	
	No Electrical Option	

Dimensions (ft. in.) & Weight (lb.) ***

Unit Length:	7' 4.125"	
Unit Width:	4' 11.5"	
Unit Height:	3' 5.25"	
*** Total Operating Weight:	807	lb

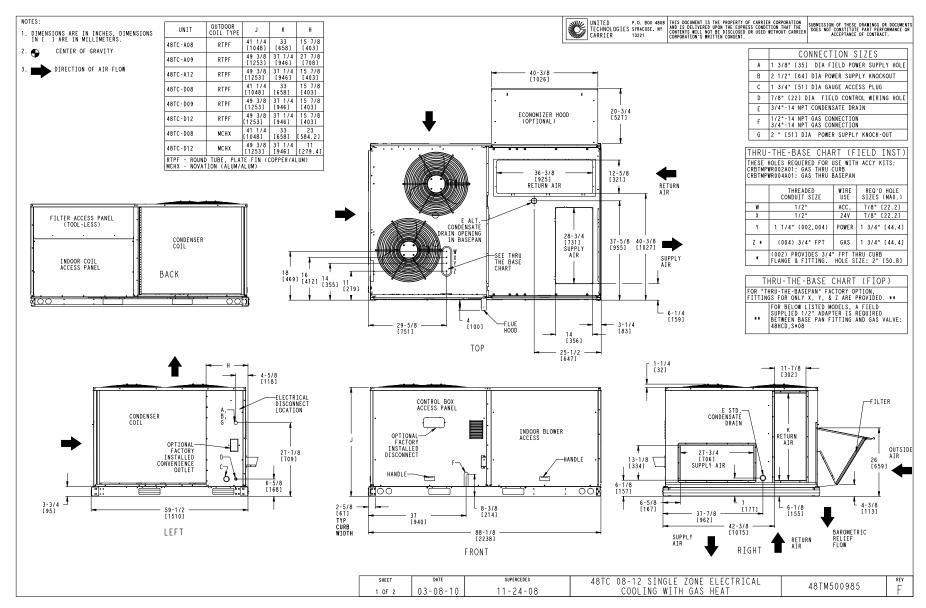
*** Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product

Certified Drawing for 48TCEM08A2A5-0A0A0_Submittal

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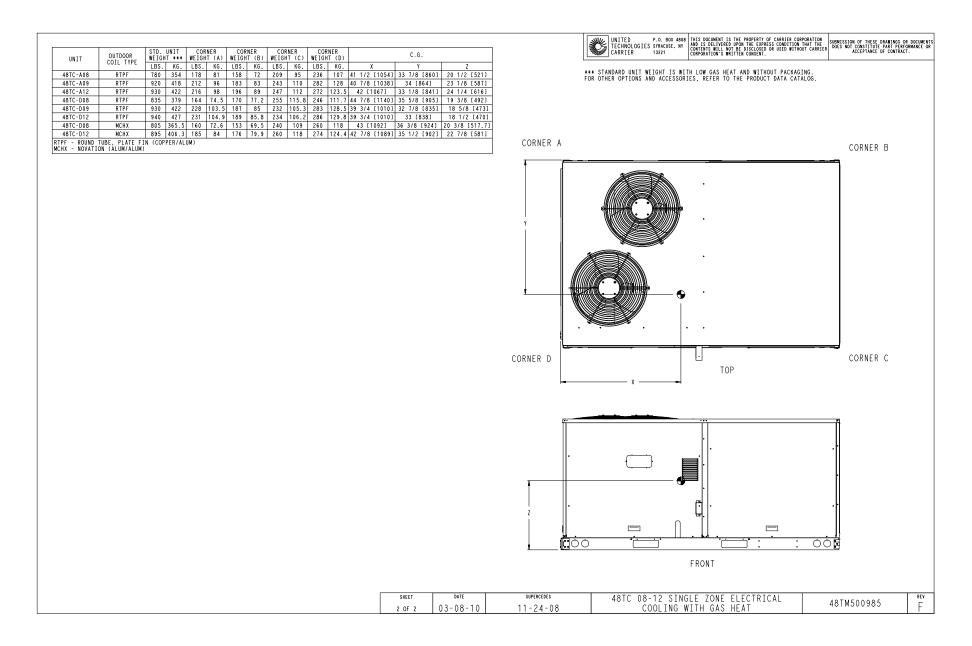


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Certified Drawing for 48TCEM08A2A5-0A0A0_Submittal

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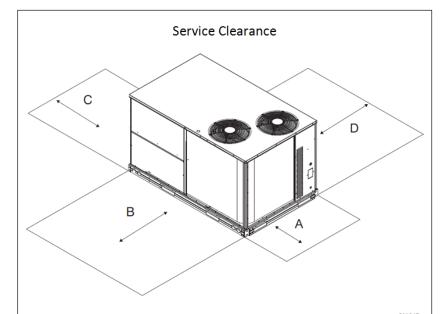
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Certified Drawing for 48TCEM08A2A5-0A0A0_Submittal

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		C11247
LOCATION	DIMENSION	CONDITION
	48-in (1219 mm)	Unit disconnect is mounted on panel
	36-in (914 mm)	If dimension-B is 12-in (305 mm)
Α	18-in (457 mm)	No disconnect, convenience outlet option
	10-111 (437 11111)	Recommended service clearance (use electric screwdriver)
	12-in (305 mm)	Minimum clearance (use manual ratchet screwdriver)
	36-in (914 mm)	Unit has economizer
В	12-in (305 mm)	If dimension-A is 36-in (914 mm)
	Special	Check for sources of flue products within 10-ft of unit fresh air intake hood
С	36-in (914 mm)	Side condensate drain is used
C	18-in (457 mm)	Minimum clearance
	48-in (1219 mm)	No flue discharge accessory installed, surface is combustible material
	42-in (1067 mm)	Surface behind servicer is grounded (e.g., metal, masonry wall, another unit)
D	36-in (914 mm)	Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	Special	Check for adjacent units or building fresh air intakes within 10-ft of this unit's flue outlet

NOTE: Unit not designed to have overhead obstruction. Contact Application Engineering for guidance on any application planning overhead obstruction or vertical clearances.

Chassis 3-4a

Packaged Rooftop Builder 1.49w

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Performance Summary For 48TCEM08A2A5-0A0A0_Submittal
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Part Number: 48TCEM08A2A5-0A0A0

ARI EER:	11 00	
IEER:		
Base Unit Dimensions		
Unit Length:		
Unit Width:	59.5	in
Unit Height:	41.3	in
Operating Weight		
Base Unit Weight:		
Medium Heat:		
Medium Static Option (Belt Drive):	15	lb
Total Operating Weight:	807	lb
Unit		
Unit Voltage-Phase-Hertz:	208-3-60	
Air Discharge:		
Fan Drive Type:		
Actual Airflow:		CFM
Site Altitude:		
Cooling Performance		
Condenser Entering Air DB:	05.0	_
Evaporator Entering Air DB:		
Evaporator Entering Air VB:		
Entering Air Enthalpy:		
Evaporator Leaving Air DB:		
Evaporator Leaving Air DB. Evaporator Leaving Air WB:		
Evaporator Leaving Air WB.		
Gross Cooling Capacity:		
Gross Sensible Capacity:		
Compressor Power Input:		
Coil Bypass Factor:		KVV
Heating Performance		
Heating Airflow:	3000	CEM
Entering Air Temp:		
Leaving Air Temp:		
Gas Heating Input Capacity:		
Gas Heating Output Capacity:		
Temperature Rise:		
Thermal Efficiency (%):		•
Supply Fan	0.50	
External Static Pressure:		ın wg
Fan RPM:		DUD
Fan Power:		BHP
NOTE: The Selected Indoor Fan Motor requires a Field-Supplied Drive (RPM F	Range: 733 - 949).	
Electrical Data	407 050	
Voltage Range:		
Compressor #1 L.D.A.		
Compressor #1 LRA:		
Indoor Fan Motor Type:		
Indoor Fan Motor FLA:		
Combustion Fan Motor FLA (ea):		
Power Supply MCCB (Fine or HACB):		
Power Supply MOCP (Fuse or HACR):		

Performance Summary For 48TCEM08A2A5-0A0A0_Submittal

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Disconnect Size FLA:	44
Disconnect Size LRA:	244
Electrical Convenience Outlet:	None
Outdoor Fan [Qty / FLA (ea)]:	2 / 1.5

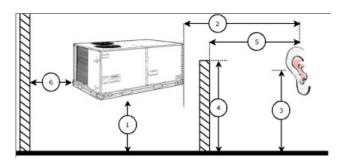
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	97.9	94.9	90.1
125 Hz	91.1	85.6	82.6
250 Hz	77.5	72.2	81.0
500 Hz	70.4	65.9	79.4
1000 Hz	66.5	62.8	77.0
2000 Hz	65.0	57.9	73.0
4000 Hz	66.5	57.1	70.4
8000 Hz	68.4	56.9	66.7
A-Weighted	79.0	73.8	82.0

Advanced Acoustics



Advanced Accoustics Parameters

aramota ricocaciico i aramotoro		
1. Unit height above ground:	30.0	ft
2. Horizontal distance from unit to receiver:	50.0	ft
3. Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver:	0.0	ft
6 Horizontal distance from unit to obstruction:	0.0	ft

Detailed Acoustics Information

Octave Band Center Freq. Hz		_			1k			_	Overall
A	90.1	82.6	81.0	79.4	77.0	73.0	70.4	66.7	91.8 Lw
В	63.9	66.5	72.4	76.2	77.0	74.2	71.4	65.6	82.0 LwA
С	57.7	50.2	48.6	47.0	44.6	40.6	38.0	34.3	59.4 Lp
D	31.5	34.1	40.0	43.8	44.6	41.8	39.0	33.2	49.6 LpA

Legend

- A Sound Power Levels at Unit's Acoustic Center, Lw
- B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
- C Sound Pressure Levels at Specific Distance from Unit, Lp

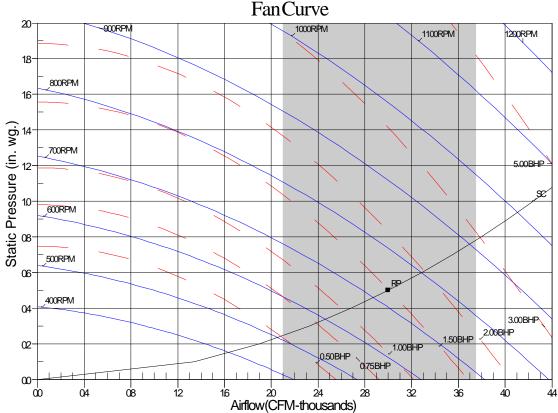
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D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



RPM=731BHP=1.49MaximumRPM=1400MaximumBHP=4.70 Note: Please contact application engineering for selections outside the shaded region. SC-SystemCurve RP-RatedPoint