Unit Report For 50TC-D08A2A6-0A0G0_SUMBITTAL

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11/26/2019 Prepared By: 01:25PM

Unit Parameters

Unit Model:	50TC-D08A2A6-0A0G0
Unit Size:	08 (7.5 Tons)
Volts-Phase-Hertz:	460-3-60
Heating Type:	None
	Supply / Vertical Return
Two-Stage Compre	ssor Models
Round Tube Plate I	

Lines and Filters

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 Electro-mechanical controls Standard Packaging 2-Speed indoor fan motor controlled by VFD

Warranty Information

5-Year compressor parts (STD.) 1-Year parts (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	Q
		l u
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		у
50TC-D08A2A6-	Rooftop Unit	1
0A0G0		

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

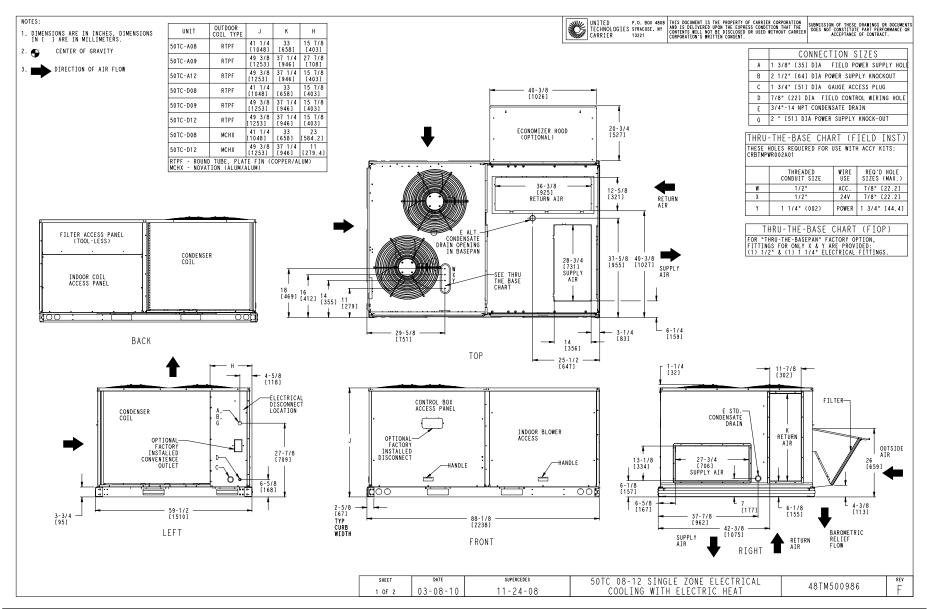
Unit Length:	7' 1 125"	
Unit Width:	4' 11.5"	
Unit Height:	3' 5.25"	
*** Total Operating Weight:	795	lb

- 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 data catalog.

Certified Drawing for 50TC-D08A2A6-0A0G0_SUMBITTAL

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Prepared By:



Packaged Rooftop Builder 1.49w

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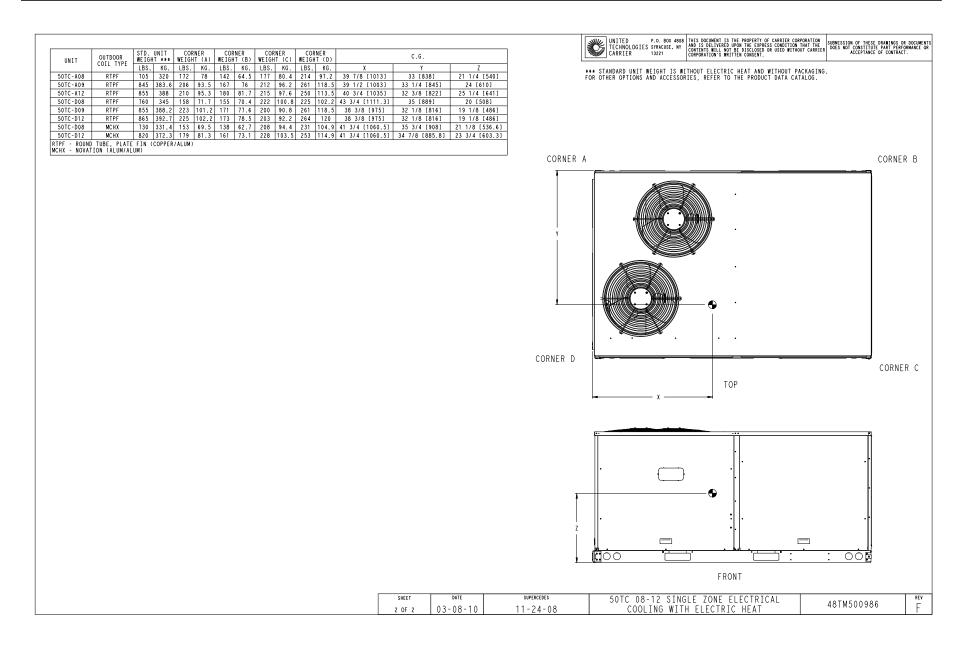
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Certified Drawing for 50TC-D08A2A6-0A0G0_SUMBITTAL

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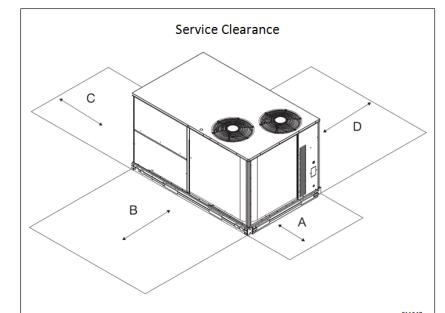
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Packaged Rooftop Builder 1.49w

Certified Drawing for 50TC-D08A2A6-0A0G0_SUMBITTAL

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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
	16-111 (437 111111)	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

Performance Summary For 50TC-D08A2A6-0A0G0_SUMBITTAL
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Part Number:50TC-D08A2A6-0A0G0

ARI EER:	11.20	
Application EER (Rooftop Unit only):	10.44	
IEER:		
Base Unit Dimensions		
Unit Length:	88.1	in
Unit Width:		
Unit Height:	41.3	in
Operating Weight		
Base Unit Weight:		
Medium Static Option (Belt Drive):	15	lb
2-Speed Indoor Fan (VFD) Controller:	20	lb
Total Operating Weight:	795	lb
Unit		
Unit Voltage-Phase-Hertz:		
Air Discharge:		
Fan Drive Type:		
Actual Airflow:		
Site Altitude:	0	ft
Casling Performance		
Cooling Performance	05.0	г
Condenser Entering Air DB:		
Evaporator Entering Air MB:		
Evaporator Entering Air WB:		
Entering Air Enthalpy:		
Evaporator Leaving Air M/P:		
Evaporator Leaving Air WB:		
Evaporator Leaving Air Enthalpy:		
Unit Discharge Air MB:		
Unit Discharge Air Unit Discharge Air Enthalm		
Unit Discharge Air Enthalpy:		
Gross Cooling Capacity: Net Cooling Capacity:		
Gross Sensible Capacity:		
Net Sensible Capacity:		
Compressor Power Input:		
Coil Bypass Factor:		K V V
Coll Bypass Factor	0.092	
Supply Fan		
External Static Pressure:		in wg
Fan RPM:		
Fan Power:	1.44	
NOTE: The Selected Indoor Fan Motor requires a Field-Supplied Drive (RPM	Range: 733 - 949).	•
Electrical Data		
Voltage Range:	414 - 506	
Compressor #1 RLA:		
Compressor #1 LRA:		
Compressor #2 RLA:		
Compressor #2 LRA:		
Indoor Fan Motor Type:		
Indoor Fan Motor FLA:		
Power Supply MCA:		
Power Supply MOCP (Fuse or HACR):		
Disconnect Size FLA:		
Disconnect Size LRA:		

Performance Summary For 50TC-D08A2A6-0A0G0_SUMBITTAL

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Electrical Convenience Outlet: ..None Outdoor Fan [Qty / FLA (ea)]:.... 2/0.8

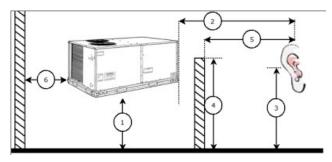
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Dischar	Inlet	Outdoor
	ge		
63 Hz	92.5	86.1	85.8
125 Hz	83.1	79.0	84.3
250 Hz	71.0	67.1	80.5
500 Hz	67.1	65.2	78.7
1000 Hz	65.7	62.6	76.4
2000 Hz	62.2	56.9	72.7
4000 Hz	61.6	54.3	68.3
8000 Hz	59.8	49.5	65.1
A- Weighte d	73.4	69.1	82.0

Advanced Acoustics



Advanced Accoustics Parameters

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	6	1	2	5	1	2	4	8	0
Freq. Hz	3	2	5	0	k	k	k	k	V
		5	0	0					е
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Performance Summary For 50TC-D08A2A6-0A0G0_SUMBITTAL

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A	8 5	8 4	8 0	7 8	7 6	7 2	6 8	6 5	8 9
	8	3	5	7	4	7	3	1	6 L w
В	5 9	6 8	7 1	7 5	7 6	7	6 9	6 4	8 1
	6	2	. 9	5	4	9	3	0	4 L w A
С	5 3	5 1	4 8	4 6	4	4 0	3 5	3 2	5 7
	4	9	1	3	0	3	9	7	2 L p
D	2 7	3 5	3 9	4	4	4 1	3 6	3 1	4
	2	8	5	1	0	5	9	6	0 L p A

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

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.

Performance Summary For 50TC-D08A2A6-0A0G0_SUMBITTAL Project: 1.0 RTU Submittals for Website - Page 3

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