Unit Report For 50TC-D16A2A6-0A0G0

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11/22/2019 Prepared By: 04:09PM

Unit Parameters

Unit Model:	50TC-D16A2A6-0A0G0
Unit Size:	16 (15 Tons)
Volts-Phase-Hertz:	460-3-60
Heating Type:	None
Duct Cfg: Vertic	al Supply / Vertical Return
Two-Stage Compressor N	Models
Round Tube Plate Fin	

Lines and Filters

3/4	Condensate Drain Line Size:
Throwaway	Return Air Filter Type:
6	Return Air Filter Quantity:
18 x 24 x 2	Return Air Filter Size:

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

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

Unit Length:	9' 7.875"	
Unit Width:	5' 3.375"	
Unit Height:	4' 9.375"	
*** Total Operating Weight:	1370	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

Warranty Information

5-Year compressor parts (STD.)

1-Year parts (STD.)

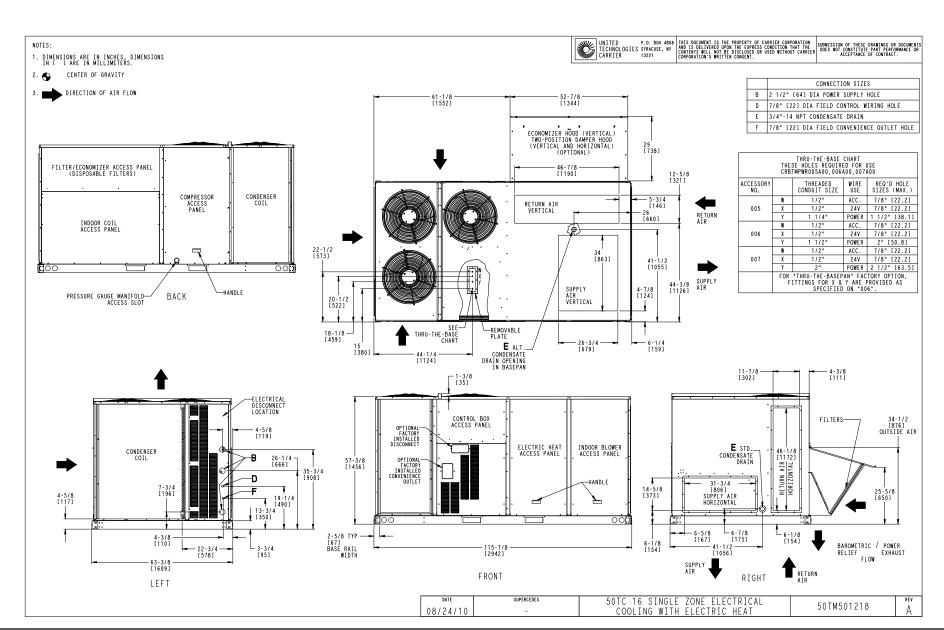
No optional warranties were selected.

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

Ordering Information

Part Number	Description	Quantity
50TC-D16A2A6-0A0G0	Rooftop Unit	1
	Base Unit	
	Medium Static Option (Belt Drive)	
	Electromechanical control, No intake or exhaust option.	
	2-Speed Indoor Fan (VFD) Controller	

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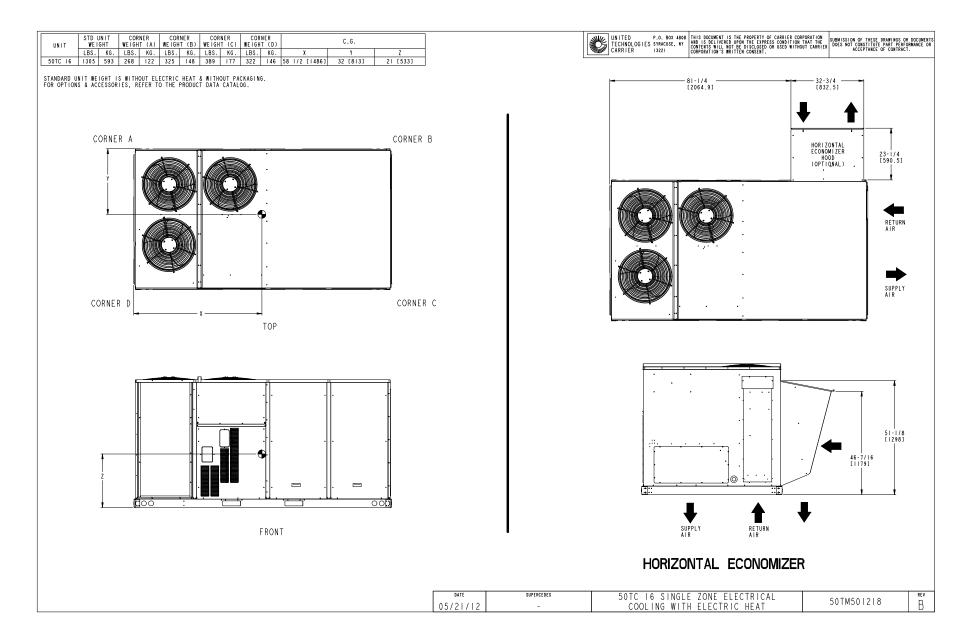
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Certified Drawing for 50TC-D16A2A6-0A0G0

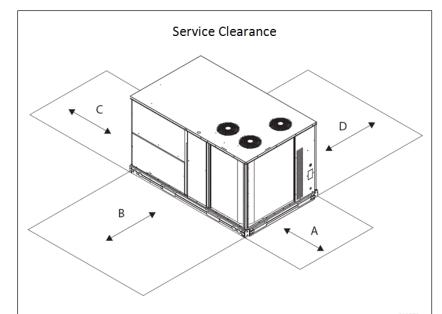
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		C1057E
LOCATION	DIMENSION	CONDITION
	48-in (1219 mm)	Unit disconnect is mounted on panel
Α	18-in (457 mm)	No disconnect, convenience outlet option
A	16-111 (437 11111)	Recommended service clearance
	12-in (305 mm)	Minimum clearance
	42-in (1067 mm)	Surface behind servicer is grounded (e.g., metal, masonry wall)
В	36-in (914 mm)	Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	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.

Performance Summary For 50TC-D16A2A6-0A0G0

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Part Number:50TC-D16A2A6-0A0G0

ARI EER:	11.00	
IEER:		
Base Unit Dimensions		
Unit Length:	115.9	in
Unit Width:		
Unit Height:		
Operating Weight		
Base Unit Weight:	1305	lb
Medium Static Option (Belt Drive):	45	lb.
2-Speed Indoor Fan (VFD) Controller:		
Total Operating Weight:	1370	lb
Unit		
Unit Voltage-Phase-Hertz:	460-3-60	
Air Discharge:	Vertical	
Fan Drive Type:	Belt	
Actual Airflow:	6000	CFM
Site Altitude:	0	ft
Cooling Performance		
Condenser Entering Air DB:	95.0	F
Evaporator Entering Air DB:		
Evaporator Entering Air WB:		
Entering Air Enthalpy:		
Evaporator Leaving Air DB:		
Evaporator Leaving Air WB:		
Evaporator Leaving Air Enthalpy:		
Gross Cooling Capacity:		
Gross Sensible Capacity:		
Compressor Power Input:		
Coil Bypass Factor:		
Supply Fan		
External Static Pressure:	0.50	in wg
Fan RPM:		J
Fan Power:	2.01	BHP
NOTE: The Selected Indoor Fan Motor requires a Field-Supplied Drive (RPM Rar		
Electrical Data		
Voltage Range:	414 - 506	
Compressor #1 RLA:		
Compressor #1 LRA:	100	
Compressor #2 RLA:		
Compressor #2 LRA:		
Indoor Fan Motor Type:		
Indoor Fan Motor FLA:		
Power Supply MCA:	38	
Power Supply MOCP (Fuse or HACR):		
Disconnect Size FLA:		
Disconnect Size LRA:		
Electrical Convenience Outlet:	None	
Outdoor Fan [Qty / FLA (ea)]:		

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Performance Summary For 50TC-D16A2A6-0A0G0

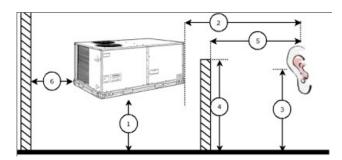
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Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	88.7	86.3	87.0
125 Hz	88.5	78.6	85.2
250 Hz	72.0	64.8	84.6
500 Hz	77.3	67.5	84.9
1000 Hz	74.8	66.4	82.2
2000 Hz	72.3	61.1	78.4
4000 Hz	73.9	57.6	75.3
8000 Hz	66.0	49.8	72.9
A-Weighted	81.3	71.1	87.0

Advanced Acoustics



Advanced Accoustics Parameters

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	63	125	250	500	1k	2k	4k	8k	Overall
Α	87.0	85.2	84.6	84.9	82.2	78.4	75.3	72.9	92.4 Lw
В	60.8	69.1	76.0	81.7	82.2	79.6	76.3	71.8	87.1 LwA
С	54.6	52.8	52.2	52.5	49.8	46.0	42.9	40.5	60.0 Lp
D	28.4	36.7	43.6	49.3	49.8	47.2	43.9	39.4	54.7 LpA

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

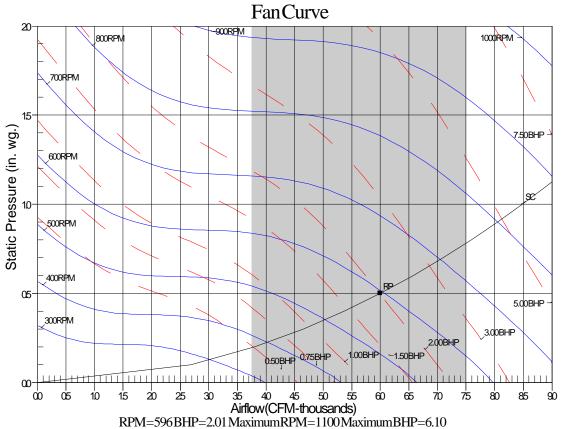
Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system 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

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Acoustical Engineer or a person with sound prediction expertise should be consulted.



Note: Please contact application engineering for selections outside the shaded region. SC-SystemCurve RP-RatedPoint