# Unit Report For 48TCED08A2A5-0A0G0

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11/22/2019 04:06PM Prepared By:

### **Unit Parameters**

Unit Model:	48TCED08A2A5-0A0G0
Unit Size:	08 (7.5 Tons)
Volts-Phase-Hertz:	208-3-60
Heating Type:	Gas
	Vertical Supply / Vertical Return
Medium Heat	
Round Tube Plate F	Fin 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 2-Speed indoor fan motor controlled by VFD

### **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
48TCED08A2A5-0A0G0	Rooftop Unit	1
	Base Unit	
	Medium Static Option (Belt Drive)	
	Electromechanical control, No intake or exhaust option.	
	2 Speed Fan Controller (VFD)	

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

Unit Length: 7' 4.125"	
Unit Width: 4' 11.5"	
Unit Height: 3' 5.25"	
*** Total Operating Weight: 885	lb

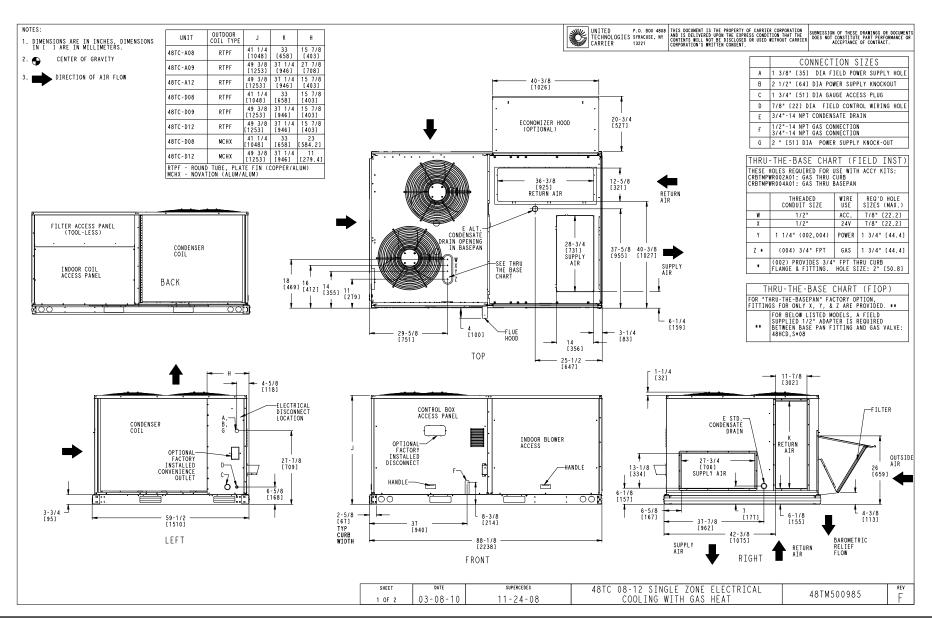
\*\*\* Weights and Dimensions are approximate. Weight does not include unit packaging. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product

# Certified Drawing for 48TCED08A2A5-0A0G0

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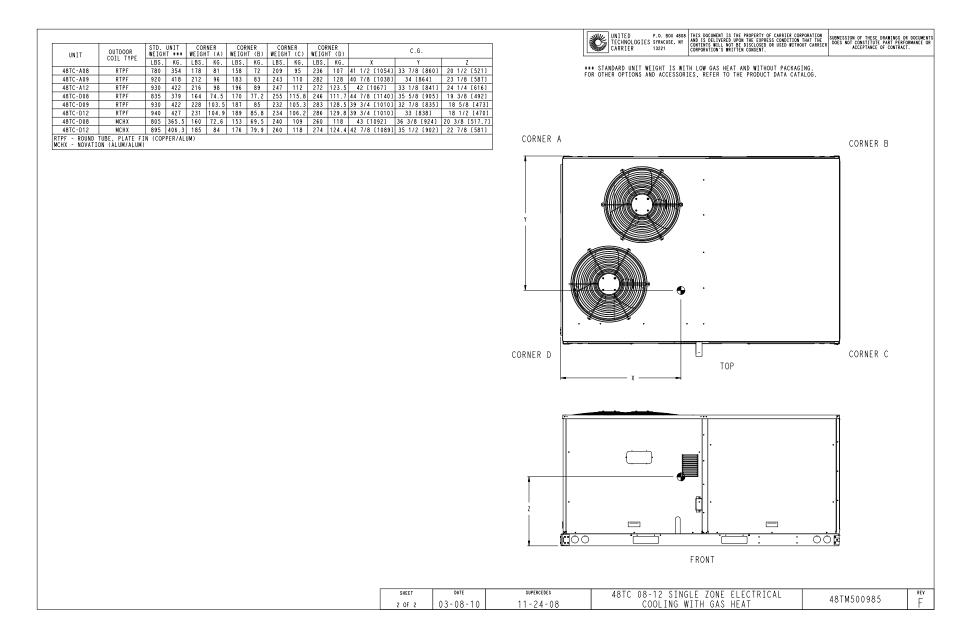


Packaged Rooftop Builder 1.49w Page 2 of 7

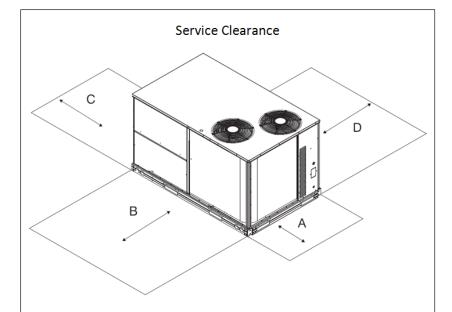
# **Certified Drawing for 48TCED08A2A5-0A0G0**

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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
C 36-in (914 mm)		Side condensate drain is used
_	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 48TCED08A2A5-0A0G0

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## Part Number: 48TCED08A2A5-0A0G0

ARI EER:	11 00	
IEER:		
Base Unit Dimensions		
Unit Length:		
Unit Width:		
Unit Height:	41.3	in
Operating Weight		
Base Unit Weight:		
Medium Heat:	15	lb
Medium Static Option (Belt Drive):	15	lb
2 Speed Fan Controller (VFD):	20	lb
<b>- .</b>		
Total Operating Weight:	885	lb
Unit		
Unit Voltage-Phase-Hertz:	208-3-60	
Air Discharge:		
Fan Drive Type:		
Actual Airflow:		
Site Altitude:		
One / unddo		10
Cooling Performance		
Condenser Entering Air DB:	95.0	F
Evaporator Entering Air DB:	80.0	F
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:		K V V
Coll Dypass I actor.	0.032	
Heating Performance		
Heating Airflow:	3000	CFM
Entering Air Temp:	70.0	F
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:		
Fan Power:The Selected Indoor Fan Motor requires a Field-Supplied Drive (F		BHP
NOTEThe Sciedica indoor Fan Motor requires a Field-Supplied Drive (F	AF WI MAIIYE. 133 - 349).	
Electrical Data		
Voltage Range:	187 - 253	
Compressor #1 RLA:		
Compressor #1 LRA:		
Compressor #2 RLA:		
Compressor #2 LRA:		
Indoor Fan Motor Type:		
Indoor Fan Motor FLA:		
ITAGOT I ATT MOTOL I EA	0.4	

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Combustion Fan Motor FLA (ea):	0.48
Power Supply MCA:	43
Power Supply MOCP (Fuse or HACR):	50
Disconnect Size FLA:	45
Disconnect Size LRA:	
Electrical Convenience Outlet:	None
Outdoor Fan [Qty / FLA (ea)]:	2 / 1.5

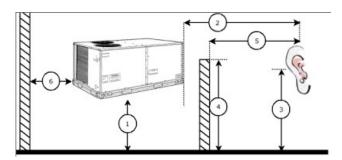
## Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

### **Acoustics**

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	97.9	94.9	85.8
125 Hz	91.1	85.6	84.3
250 Hz	77.5	72.2	80.5
500 Hz	70.4	65.9	78.7
1000 Hz	66.5	62.8	76.4
2000 Hz	65.0	57.9	72.7
4000 Hz	66.5	57.1	68.3
8000 Hz	68.4	56.9	65.1
-Weighted	79.0	73.8	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 Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
Α	85.8	84.3	80.5	78.7	76.4	72.7	68.3	65.1	89.6 Lw
В	59.6	68.2	71.9	75.5	76.4	73.9	69.3	64.0	81.4 LwA
С	53.4	51.9	48.1	46.3	44.0	40.3	35.9	32.7	57.2 Lp
D	27.2	35.8	39.5	43.1	44.0	41.5	36.9	31.6	49.0 LpA

## Legend

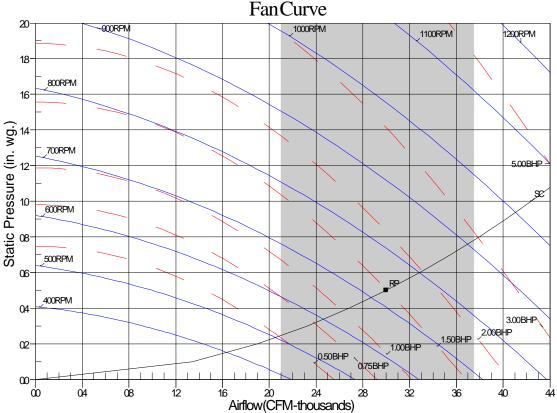
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- A Sound Power Levels at Unit's Acoustic Center, Lw
- B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
- C Sound Pressure Levels at Specific Distance from Unit, Lp
- D A-Weighted Sound Pressure Levels at Specific Distance from Unit,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



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