

Unit Report For 50TC-A07A2A6-0A0G0

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Prepared By:

11/22/2019
04:12PM

Unit Parameters

Unit Model:.....50TC-A07A2A6-0A0G0
Unit Size:.....07 (6 Tons)
Volts-Phase-Hertz:.....460-3-60
Heating Type:.....None
Duct Cfg:.....Vertical Supply / Vertical Return
Single Stage Compressor Models
Round Tube Plate Fin

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

Unit Length:.....6' 2.375"
Unit Width:.....3' 8"
Unit Height:.....3' 5.375"
*** Total Operating Weight:.....637 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.

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 16 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	Quantity
50TC-A07A2A6-0A0G0	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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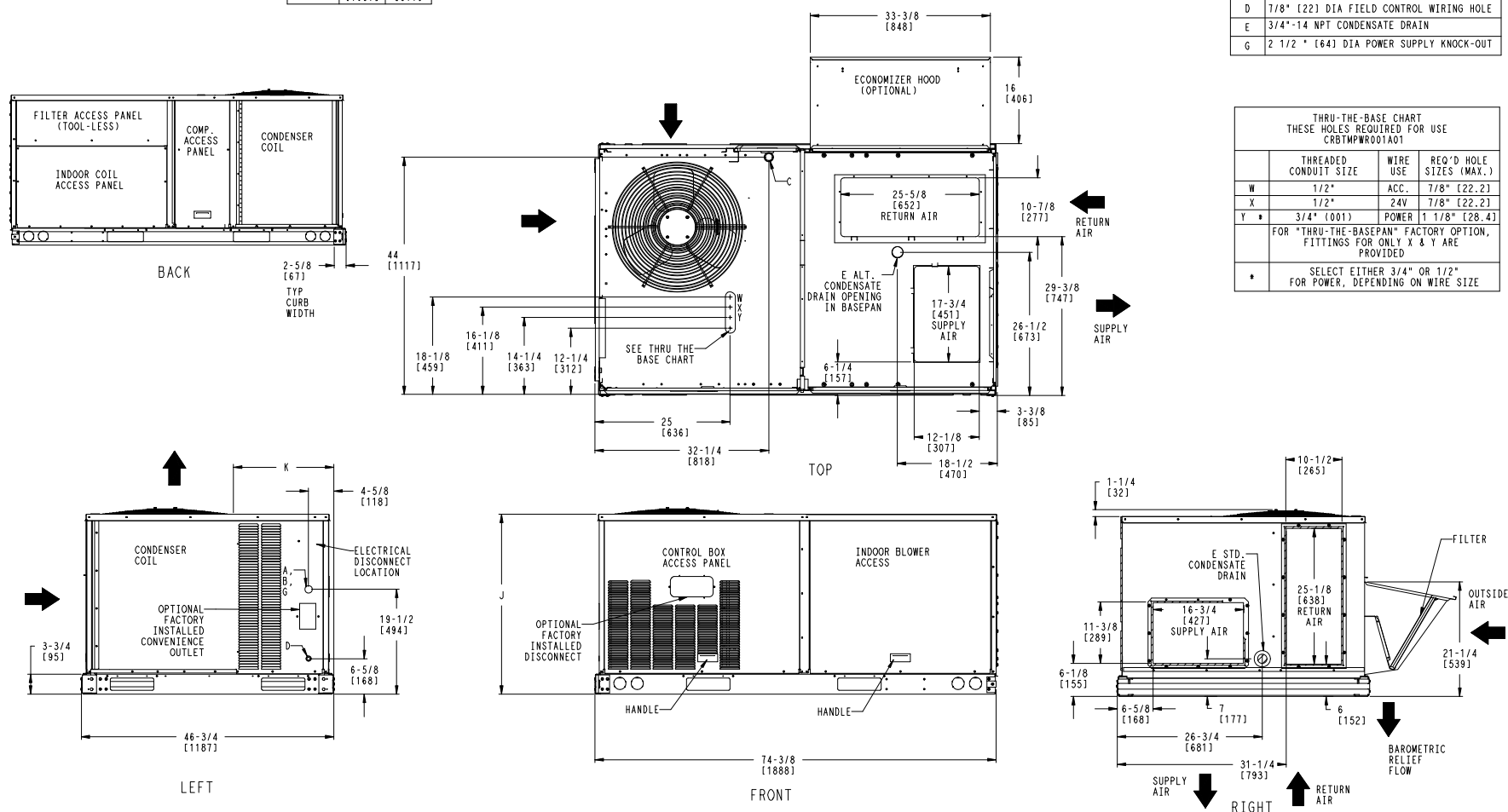
2. CENTER OF GRAVITY

3. DIRECTION OF AIR FLOW

UNIT	J	K
50TC-A04	33 3/8 [847]	18 5/8 [472]
50TC-A05	33 3/8 [847]	14 7/8 [377]
50TC-A06	33 3/8 [847]	14 7/8 [377]
50TC-A07	41 3/8 [1051]	14 7/8 [377]

	CONNECTION SIZES
A	1 3/8" [35] DIA FIELD POWER SUPPLY HO
B	2" [51] DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [44] DIA GAUGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOL
E	3/4"-14 NPT CONDENSATE DRAIN
G	2 1/2" * [64] DIA POWER SUPPLY KNOCK-OU

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTMPW001A01			
	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
W	1/2"	ACV	7/8" [22.2
X	1/2"	24C	7/8" [22.2
Y *	3/4" (001)	POWER	1 1/8" [28.
FOR "THRU-THE-BASEPAN" FACTORY OPTION FITTINGS FOR ONLY X & Y ARE PROVIDED			
*	SELECT EITHER 3/4" OR 1/2" FOR POWER, DEPENDING ON WIRE SIZE		



SHEET 1 OF 2	DATE 11-24-08	SUPERCEDES 09-29-08	50TC 04-07 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TM500994	REV 5.0
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Certified Drawing for 50TC-A07A2A6-0A0G0

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UNIT	STD. UNIT WEIGHT		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.			HEIGHT
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z	
50TC-A04	438	199	108	49	115	52	110	50	104	47	38 [965]	22 [559]	17 1/4 [438]	
50TC-A05	494	224	122	55	130	59	125	57	117	53	38 [965]	22 [559]	17 1/2 [445]	
50TC-A06	524	238	130	59	138	63	132	60	124	56	38 [965]	22 [559]	17 3/4 [451]	
50TC-A07	607	275	150	68	160	73	153	69	144	65	38 [965]	22 [559]	20 3/4 [527]	

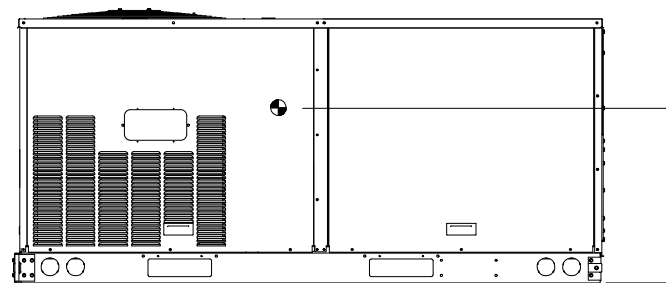
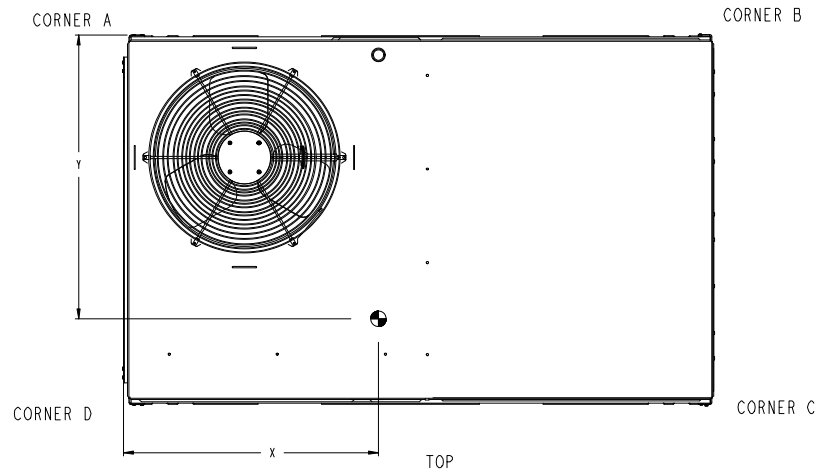


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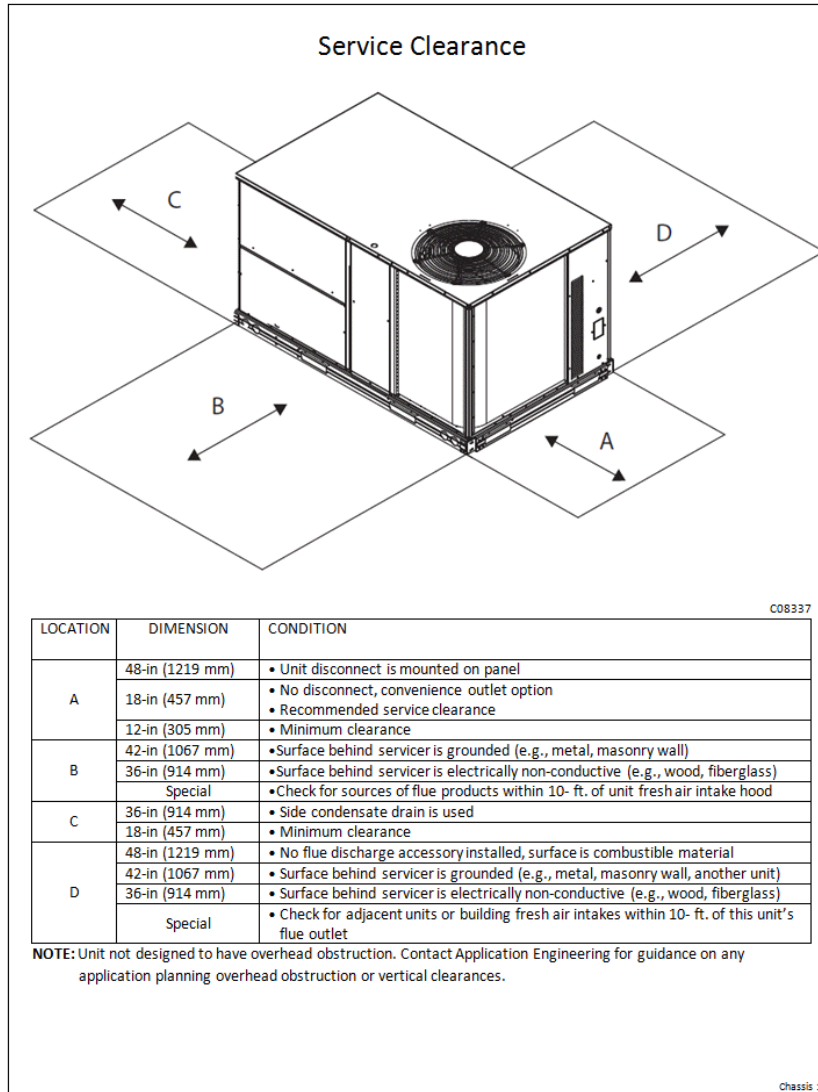
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SHEET	DATE	SUPERCEDES	50TC 04-07 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TM500994	REV
2 OF 2	11-24-08	09-29-08			5.0

Certified Drawing for 50TC-A07A2A6-0A0G0

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Performance Summary For 50TC-A07A2A6-0A0G0

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Part Number:50TC-A07A2A6-0A0G0

ARI EER: 11.20
IEER: 12.9

Base Unit Dimensions

Unit Length: 74.4 in
Unit Width: 44.0 in
Unit Height: 41.4 in

Operating Weight

Base Unit Weight: 607 lb
Medium Static Option (Belt Drive): 10 lb
2-Speed Indoor Fan (VFD) Controller: 20 lb

Total Operating Weight: 637 lb

Unit

Unit Voltage-Phase-Hertz: 460-3-60
Air Discharge: Vertical
Fan Drive Type: Belt
Actual Airflow: 2100 CFM
Site Altitude: 0 ft

Cooling Performance

Condenser Entering Air DB: 95.0 F
Evaporator Entering Air DB: 80.0 F
Evaporator Entering Air WB: 67.0 F
Entering Air Enthalpy: 31.44 BTU/lb
Evaporator Leaving Air DB: 56.0 F
Evaporator Leaving Air WB: 55.8 F
Evaporator Leaving Air Enthalpy: 23.64 BTU/lb
Gross Cooling Capacity: 73.68 MBH
Gross Sensible Capacity: 54.42 MBH
Compressor Power Input: 5.10 kW
Coil Bypass Factor: 0.070

Supply Fan

External Static Pressure: 0.50 in wg
Fan RPM: 1156
Fan Power: 1.22 BHP
NOTE: The Selected Indoor Fan Motor requires a Field-Supplied Drive (RPM Range: 1173 - 1518).

Electrical Data

Voltage Range: 414 - 506
Compressor #1 RLA: 8.2
Compressor #1 LRA: 66
Indoor Fan Motor Type: MED
Indoor Fan Motor FLA: 4.2
Power Supply MCA: 15
Power Supply MOCP (Fuse or HACR): 20
Disconnect Size FLA: 15
Disconnect Size LRA: 95
Electrical Convenience Outlet: None
Outdoor Fan [Qty / FLA (ea)]: 1 / 0.8

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

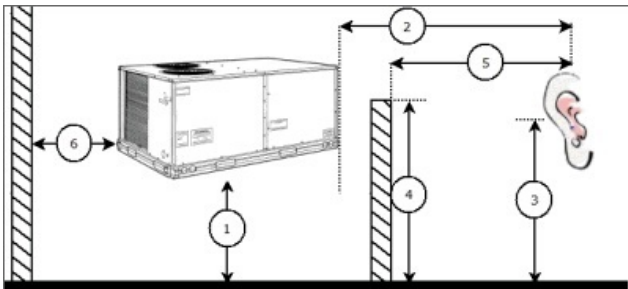
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	Discharge	Inlet	Outdoor
63 Hz	88.4	87.8	88.8
125 Hz	81.5	78.1	81.8
250 Hz	74.2	66.3	76.9
500 Hz	71.8	64.2	74.4
1000 Hz	70.9	65.8	73.3
2000 Hz	65.7	60.5	69.8
4000 Hz	67.5	56.7	66.3
8000 Hz	64.2	50.0	62.7
A-Weighted	76.3	70.4	78.0

Advanced Acoustics



Advanced Acoustics 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
A	88.8	81.8	76.9	74.4	73.3	69.8	66.3	62.7	90.1 Lw
B	62.6	65.7	68.3	71.2	73.3	71.0	67.3	61.6	78.2 LwA
C	56.4	49.4	44.5	42.0	40.9	37.4	33.9	30.3	57.7 Lp
D	30.2	33.3	35.9	38.8	40.9	38.6	34.9	29.2	45.8 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
 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.

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