Unit Report For PAQ 10 TR STD

Project: Juzgados Mérida 06/10/2014
Prepared By: 04:45p.m.

Unit Parameters

Unit Model: **50TC-A12A1A5-0A0A0**
Unit Size: **12 (10 Tons)**
Volts-Phase-Hertz: **230-3-60**
Heating Type: **None**
Duct Cfg: **Vertical Supply / Vertical Return**
Single Stage Compressor Models
Round Tube Plate Fin

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

Unit Length: **7' 4.125"**
Unit Width: **4' 11.5"**
Unit Height: **4' 1.375"**
*** Total Operating Weight: **855** 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: **20 x 20 x 2**

Unit Configuration

Standard Static Option
Al/Cu - Al/Cu
Base Electro-mechanical controls
Standard Packaging

Warranty Information **(Net Price Ea.)**

5-Year compressor parts (STD.) $0
1-Year parts (STD.) $0

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	Master Price (ea.)
50TC-A12A1A5-0A0A0	Rooftop Unit	1	$15,561
	Base Unit		$15,561
	Electromechanical control, No intake or exhaust option		
	None		

NOTES:

1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW

UNIT	OUTDOOR COIL TYPE	J	K	H
50TC-A08	RTPF	41 1/4 [1048]	33 [658]	15 7/8 [403]
50TC-A09	RTPF	49 3/8 [1253]	37 1/4 [946]	27 7/8 [708]
50TC-A12	RTPF	49 3/8 [1253]	37 1/4 [946]	15 7/8 [403]
50TC-D08	RTPF	41 1/4 [1048]	33 [658]	15 7/8 [403]
50TC-D09	RTPF	49 3/8 [1253]	37 1/4 [946]	15 7/8 [403]
50TC-D12	RTPF	49 3/8 [1253]	37 1/4 [946]	15 7/8 [403]
50TC-D08	MCHX	41 1/4 [1048]	33 [658]	23 [584.2]
50TC-D12	MCHX	49 3/8 [1253]	37 1/4 [946]	11 [279.4]

RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)
MCHX - NOVATION (ALUM/ALUM)

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

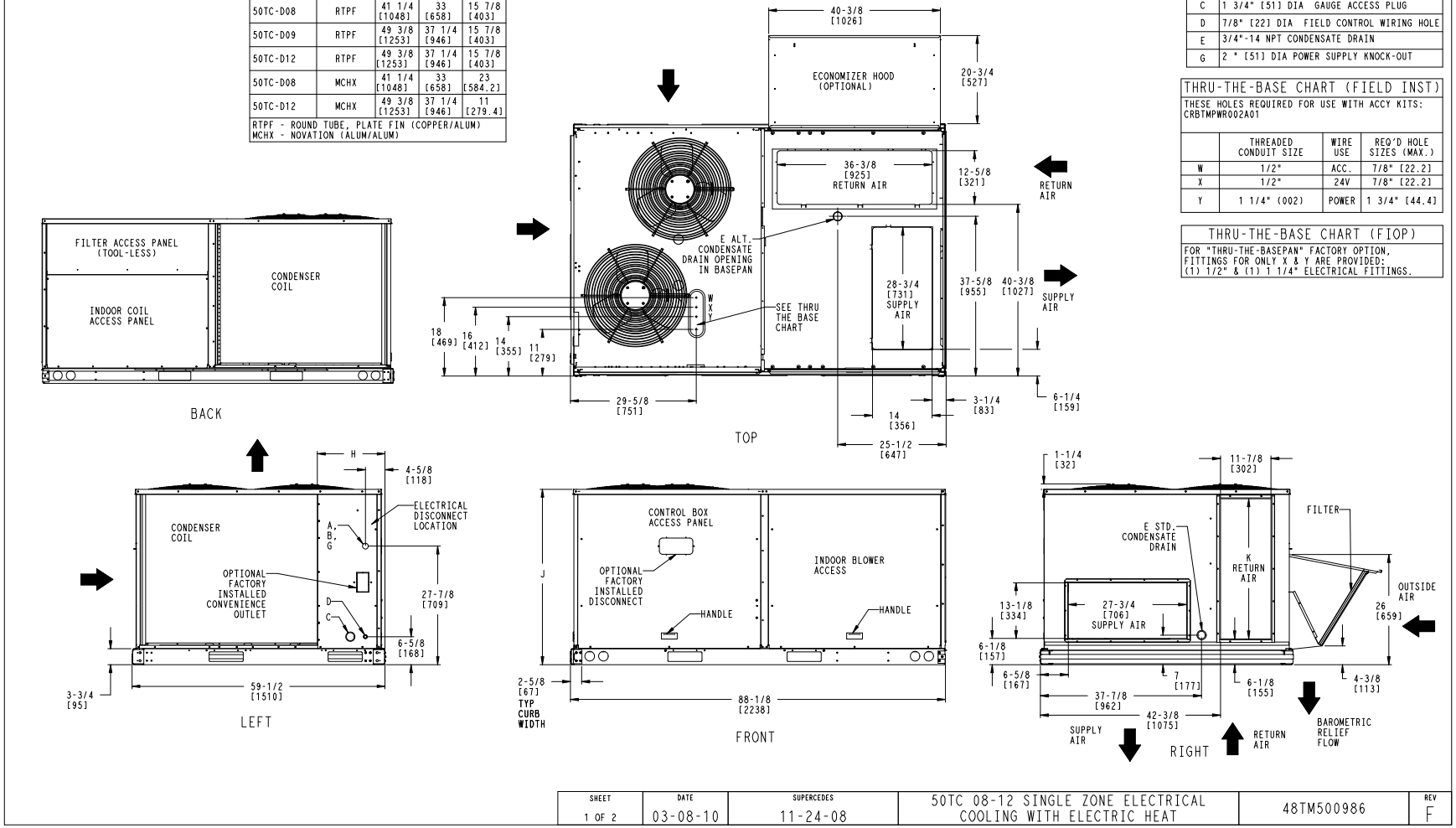
THRU-THE-BASE CHART (FIELD INST)

THESE HOLES REQUIRED FOR USE WITH ACCY KITS: CRBTMPWR002A01

	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
W	1/2"	ACC.	7/8" [22.2]
X	1/2"	24V	7/8" [22.2]
Y	1 1/4" (002)	POWER	1 3/4" [44.4]

THRU-THE-BASE CHART (FIOP)

FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X & Y ARE PROVIDED: (1) 1/2" & (1) 1 1/4" ELECTRICAL FITTINGS.

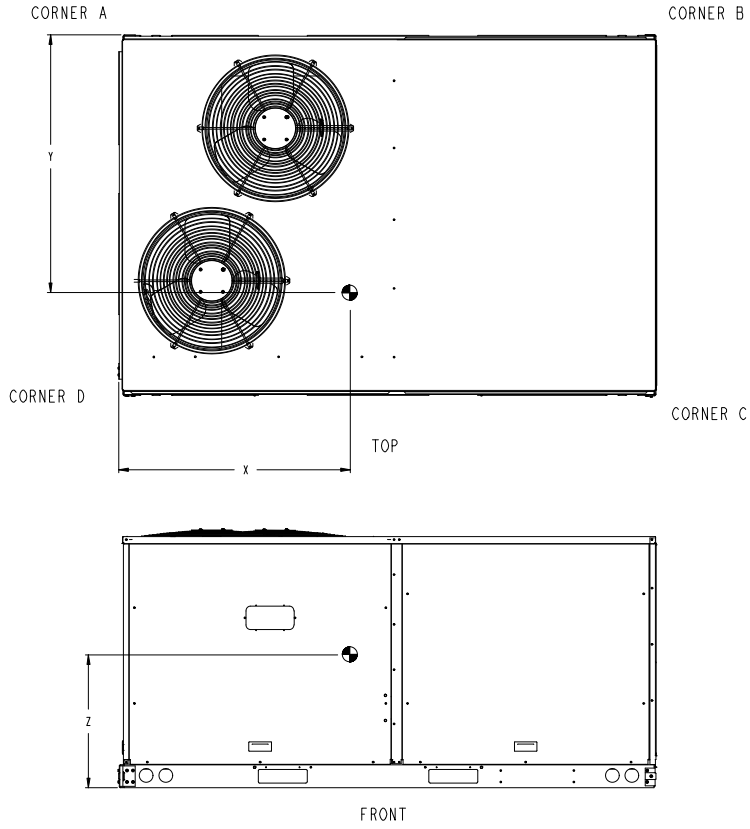


SHEET	DATE	SUPERCEDES			REV
1 OF 2	03-08-10	11-24-08	50TC 08-12 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TM500986	F

UNIT	OUTDOOR COIL TYPE	STD. UNIT WEIGHT ***		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
50TC-A08	RTPF	705	320	172	78	142	64.5	177	80.4	214	97.2	39 7/8 [1013]	33 [838]	21 1/4 [540]
50TC-A09	RTPF	845	383.6	206	93.5	167	76	212	96.2	261	118.5	39 1/2 [1003]	33 1/4 [845]	24 [610]
50TC-A12	RTPF	855	388	210	95.3	180	81.7	215	97.6	250	113.5	40 3/4 [1035]	32 3/8 [822]	25 1/4 [641]
50TC-D08	RTPF	760	345	158	71.7	155	70.4	222	100.8	225	102.2	43 3/4 [1111.3]	35 [889]	20 [508]
50TC-D09	RTPF	855	388.2	223	101.2	171	77.6	200	90.8	261	118.5	38 3/8 [975]	32 1/8 [816]	19 1/8 [486]
50TC-D12	RTPF	865	392.7	225	102.2	173	78.5	203	92.2	264	120	38 3/8 [975]	32 1/8 [816]	19 1/8 [486]
50TC-D08	MCHX	730	331.4	153	69.5	138	62.7	208	94.4	231	104.9	41 3/4 [1060.5]	35 3/4 [908]	21 1/8 [536.6]
50TC-D12	MCHX	820	372.3	179	81.3	161	73.1	228	103.5	253	114.9	41 3/4 [1060.5]	34 7/8 [885.8]	23 3/4 [603.3]

RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)
MCHX - NOVATION (ALUM/ALUM)

*** STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



SHEET	DATE	SUPERCEDES			REV
2 OF 2	03-08-10	11-24-08	50TC 08-12 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TM500986	F

Performance Summary For PAQ 10 TR STD

Project: Juzgados Mérida 06/10/2014
Prepared By: 04:45p.m.

Part Number:50TC-A12A1A5-0A0A0

ARI EER:	**11.20**	
IEER:	**11.4**	

Base Unit Dimensions

Unit Length:	**88.1**	in
Unit Width:	**59.5**	in
Unit Height:	**49.4**	in

Operating Weight

Base Unit Weight:	**855**	lb
Total Operating Weight:	**855**	lb

Unit

Unit Voltage-Phase-Hertz:	**230-3-60**	
Air Discharge:	**Vertical**	
Fan Drive Type:	**Belt**	
Actual Airflow:	**4000**	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:	**58.0**	F
Evaporator Leaving Air WB:	**57.3**	F
Evaporator Leaving Air Enthalpy:	**24.59**	BTU/lb
Gross Cooling Capacity:	**123.34**	MBH
Gross Sensible Capacity:	**94.96**	MBH
Compressor Power Input:	**8.59**	kW
Coil Bypass Factor:	**0.070**	

Supply Fan

External Static Pressure:	**0.50**	in wg
Fan RPM:	**779**	
Fan Power:	**1.68**	BHP
NOTE:	**Selected IFM RPM Range: 591 - 838**	

Electrical Data

Voltage Range:	**187 - 253**
Compressor #1 RLA:	**30.1**
Compressor #1 LRA:	**225**
Indoor Fan Motor Type:	**STD**
Indoor Fan Motor FLA:	**6.7**
Power Supply MCA:	**48**
Power Supply MOCP (Fuse or HACR):	**60**
Min. Unit Disconnect FLA:	**46**
Min. Unit Disconnect LRA:	**290**
Electrical Convenience Outlet:	**None**
Outdoor Fan [Qty / FLA (ea)]:	**2 / 1.5**

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

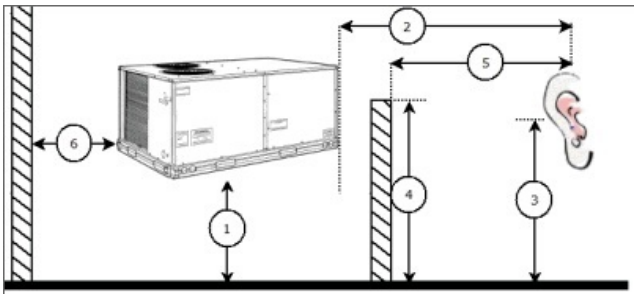
Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	90.9	86.2	88.6
125 Hz	85.3	78.9	85.0
250 Hz	71.6	66.2	81.6
500 Hz	71.3	66.2	79.5

1000 Hz	69.5	64.2	77.4
2000 Hz	66.4	58.6	74.1
4000 Hz	66.7	55.7	71.0
8000 Hz	62.6	49.7	66.3
A-Weighted	76.2	69.8	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
A	88.6	85.0	81.6	79.5	77.4	74.1	71.0	66.3	91.4 Lw
B	62.4	68.9	73.0	76.3	77.4	75.3	72.0	65.2	82.6 LwA
C	56.2	52.6	49.2	47.1	45.0	41.7	38.6	33.9	59.0 Lp
D	30.0	36.5	40.6	43.9	45.0	42.9	39.6	32.8	50.2 LpA

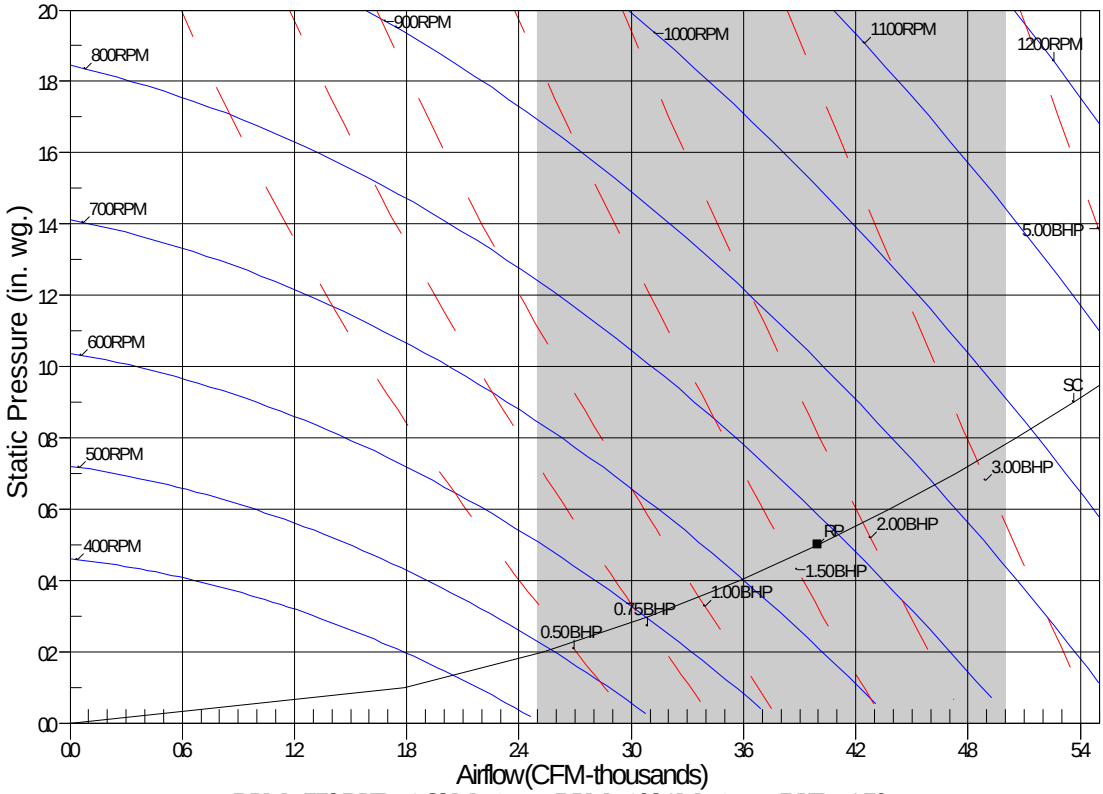
Legend
A Sound Power Levels at Unit's Acoustic Center, Lw
B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
C Sound Pressure Levels at Specific Distance from Unit, Lp
D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

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.

Performance Summary For PAQ 10 TR STD

Project: Juzgados Mérida 06/10/2014
Prepared By: 04:45p.m.

FanCurve



RPM=779 BHP=1.68 Maximum RPM=1084 Maximum BHP=4.70
Note: Please contact application engineering for selections outside the shaded region.
SC-System Curve RP-Rated Point

Unit Report For PAQ 15 TR STD

Project: Juzgados Mérida 06/10/2014
Prepared By: 04:45p.m.

Unit Parameters

Unit Model: **50TC-D16A1A5-0A0A0**
Unit Size: **16 (15 Tons)**
Volts-Phase-Hertz: **230-3-60**
Heating Type: **None**
Duct Cfg: **Vertical Supply / Vertical Return**
Two-Stage Compressor Models
Round Tube Plate Fin

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

Unit Length: **9' 7.875"**
Unit Width: **5' 3.375"**
Unit Height: **4' 9.375"**
*** Total Operating Weight: **1305** 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: **6**
Return Air Filter Size: **18 x 24 x 2**

Unit Configuration

Standard Static Option
Al/Cu - Al/Cu
Base Electro-mechanical controls
Standard Packaging

Warranty Information **(Net Price Ea.)**

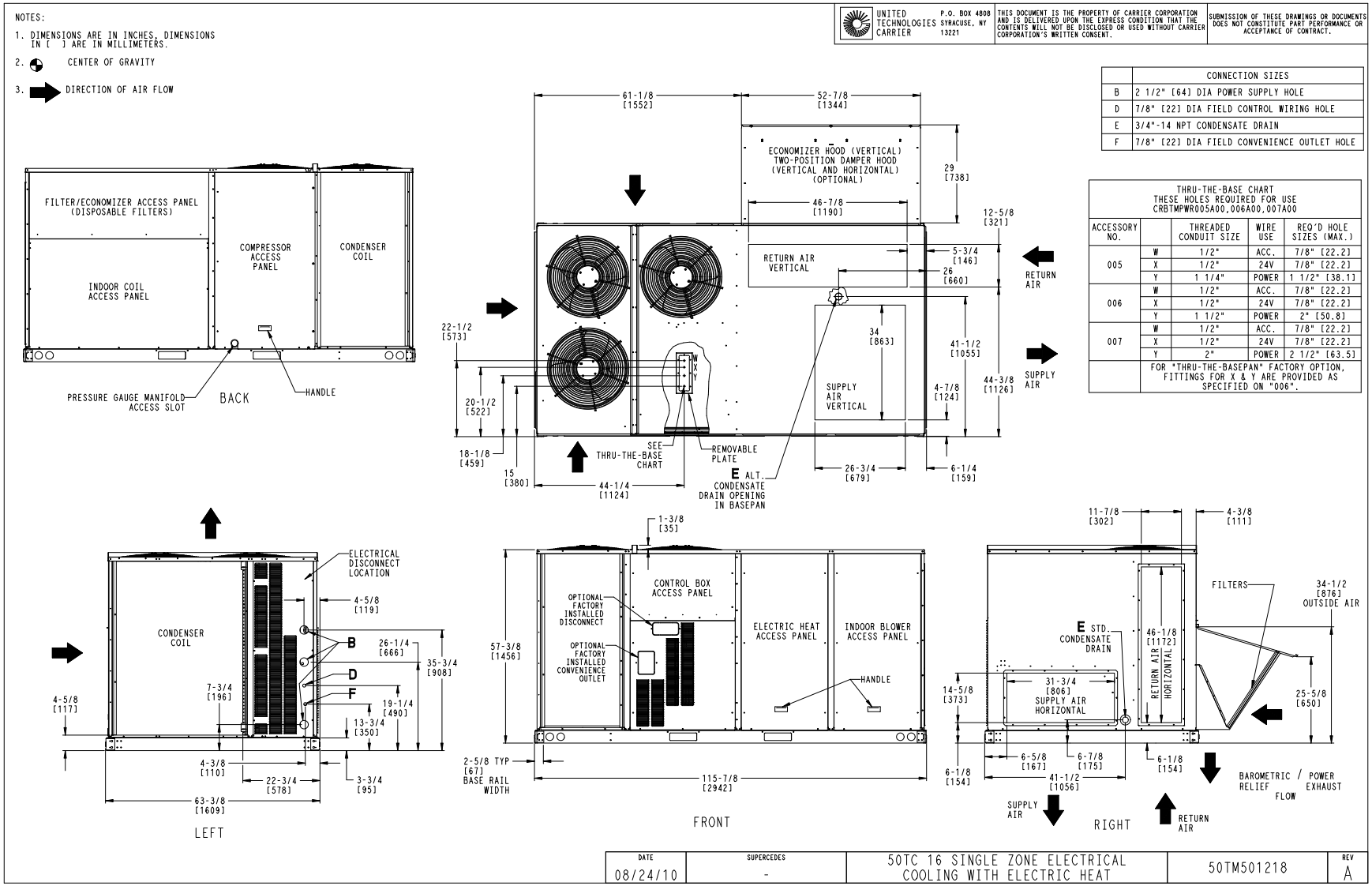
5-Year compressor parts (STD.) $0
1-Year parts (STD.) $0

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	Master Price (ea.)
50TC-D16A1A5-0A0A0	Rooftop Unit	1	$22,647
	Base Unit		$22,647
	Electromechanical control, No intake or exhaust option		
	None		


NOTES:
1. DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW
UNITED TECHNOLOGIES CARRIER
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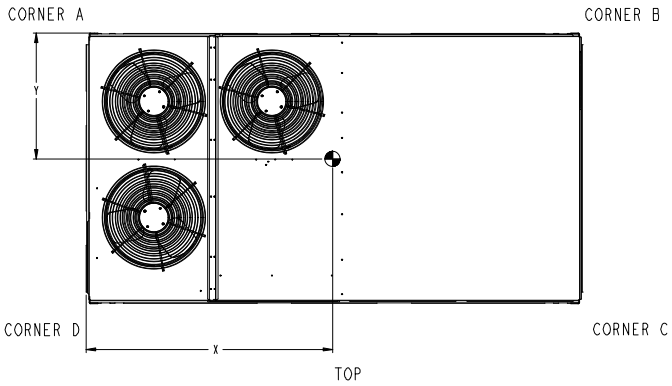
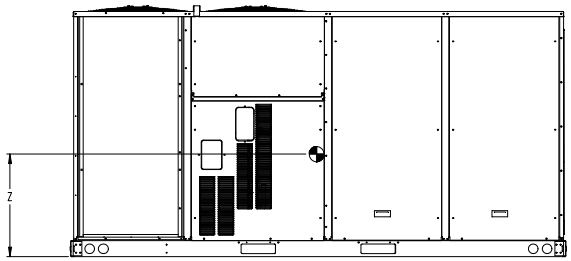
CONNECTION SIZES
B 2 1/2" [64] DIA POWER SUPPLY HOLE
D 7/8" [22] DIA FIELD CONTROL WIRING HOLE
E 3/4"-14 NPT CONDENSATE DRAIN
F 7/8" [22] DIA FIELD CONVENIENCE OUTLET HOLE
THRU-THE-BASE CHART
THESE HOLES REQUIRED FOR USE CRBTMPWR005A00,006A00,007A00
ACCESSORY NO. | | THREADED CONDUIT SIZE | WIRE USE | REQ'D HOLE SIZES (MAX.)
005 W 1/2" ACC. 7/8" [22.2]
X 1/2" 24V 7/8" [22.2]
Y 1 1/4" POWER 1 1/2" [38.1]
006 W 1/2" ACC. 7/8" [22.2]
X 1/2" 24V 7/8" [22.2]
Y 1 1/2" POWER 2" [50.8]
007 W 1/2" ACC. 7/8" [22.2]
X 1/2" 24V 7/8" [22.2]
Y 2" POWER 2 1/2" [63.5]
FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR X & Y ARE PROVIDED AS SPECIFIED ON "006".
FILTER/ECONOMIZER ACCESS PANEL (DISPOSABLE FILTERS)
INDOOR COIL ACCESS PANEL
COMPRESSOR ACCESS PANEL
CONDENSER COIL
PRESSURE GAUGE MANIFOLD ACCESS SLOT
HANDLE
BACK
61-1/8 [1552]
52-7/8 [1344]
ECONOMIZER HOOD (VERTICAL) TWO-POSITION DAMPER HOOD (VERTICAL AND HORIZONTAL) (OPTIONAL)
29 [738]
46-7/8 [1190]
12-5/8 [321]
RETURN AIR VERTICAL
5-3/4 [146]
26 [660]
RETURN AIR
SUPPLY AIR
34 [863]
41-1/2 [1055]
SUPPLY AIR VERTICAL
44-3/8 [1126]
4-7/8 [124]
22-1/2 [573]
20-1/2 [522]
18-1/8 [459]
15 [380]
44-1/4 [1124]
SEE THRU-THE-BASE CHART
REMOVABLE PLATE
E ALT. CONDENSATE DRAIN OPENING IN BASEPAN
26-3/4 [679]
6-1/4 [159]
ELECTRICAL DISCONNECT LOCATION
CONDENSER COIL
4-5/8 [119]
B
D
F
26-1/4 [666]
35-3/4 [908]
19-1/4 [490]
13-3/4 [350]
7-3/4 [196]
4-5/8 [117]
4-3/8 [110]
22-3/4 [578]
3-3/4 [95]
63-3/8 [1609]
LEFT
1-3/8 [35]
OPTIONAL FACTORY INSTALLED DISCONNECT
OPTIONAL FACTORY INSTALLED CONVENIENCE OUTLET
CONTROL BOX ACCESS PANEL
ELECTRIC HEAT ACCESS PANEL
INDOOR BLOWER ACCESS PANEL
HANDLE
57-3/8 [1456]
2-5/8 TYP [67] BASE RAIL WIDTH
115-7/8 [2942]
FRONT
11-7/8 [302]
4-3/8 [111]
FILTERS
34-1/2 [876] OUTSIDE AIR
E STD. CONDENSATE DRAIN
46-1/8 [1172] RETURN AIR HORIZONTAL
31-3/4 [806] SUPPLY AIR HORIZONTAL
14-5/8 [373]
25-5/8 [650]
6-5/8 [167]
6-7/8 [175]
6-1/8 [154]
41-1/2 [1056]
6-1/8 [154]
BAROMETRIC / POWER RELIEF EXHAUST FLOW
SUPPLY AIR
RETURN AIR
RIGHT
DATE 08/24/10
SUPERCEDES -
50TC 16 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT
50TM501218
REV A

UNIT	STD UNIT WEIGHT		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
50TC 16	1305	593	268	122	325	148	389	177	322	146	58 1/2 [1486]	32 [813]	21 [533]

STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT & WITHOUT PACKAGING.
FOR OPTIONS & ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



TOP



FRONT

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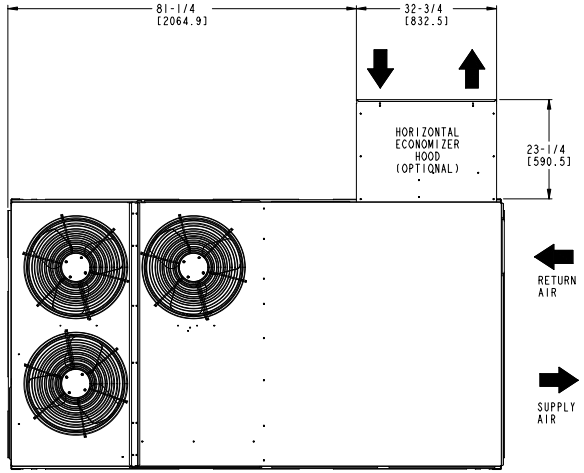
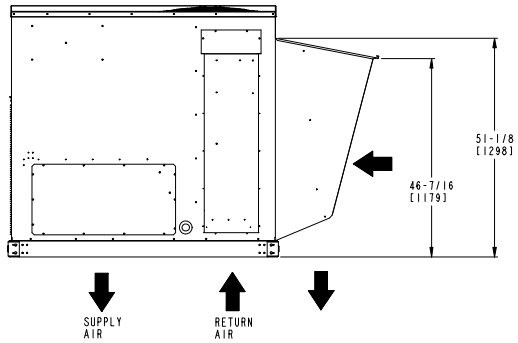




HORIZONTAL ECONOMIZER

DATE	SUPERCEDES			REV
05/21/12	-	50TC 16 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	50TM501218	B

Part Number:50TC-D16A1A5-0A0A0

ARI EER:	**11.00**	
IEER:	**11.5**	

Base Unit Dimensions

Unit Length:	**115.9**	in
Unit Width:	**63.4**	in
Unit Height:	**57.4**	in

Operating Weight

Base Unit Weight:	**1305**	lb
Total Operating Weight:	**1305**	lb

Unit

Unit Voltage-Phase-Hertz:	**230-3-60**	
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:	**80.0**	F
Evaporator Entering Air WB:	**67.0**	F
Entering Air Enthalpy:	**31.44**	BTU/lb
Evaporator Leaving Air DB:	**58.9**	F
Evaporator Leaving Air WB:	**57.3**	F
Evaporator Leaving Air Enthalpy:	**24.59**	BTU/lb
Gross Cooling Capacity:	**184.78**	MBH
Gross Sensible Capacity:	**137.04**	MBH
Compressor Power Input:	**13.64**	kW
Coil Bypass Factor:	**0.198**	

Supply Fan

External Static Pressure:	**0.50**	in wg
Fan RPM:	**596**	
Fan Power:	**2.01**	BHP
NOTE:	**Selected IFM RPM Range: 507 - 676**	

Electrical Data

Voltage Range:	**187 - 253**
Compressor #1 RLA:	**25**
Compressor #1 LRA:	**164**
Compressor #2 RLA:	**25**
Compressor #2 LRA:	**164**
Indoor Fan Motor Type:	**STD**
Indoor Fan Motor FLA:	**8.3**
Power Supply MCA:	**70**
Power Supply MOCP (Fuse or HACR):	**80**
Min. Unit Disconnect FLA:	**72**
Min. Unit Disconnect LRA:	**412**
Electrical Convenience Outlet:	**None**
Outdoor Fan [Qty / FLA (ea)]:	**3 / 1.5**

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

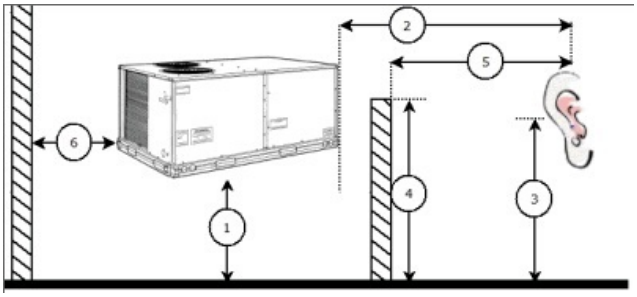
Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	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

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	87.0	85.2	84.6	84.9	82.2	78.4	75.3	72.9	92.4 Lw
B	60.8	69.1	76.0	81.7	82.2	79.6	76.3	71.8	87.1 LwA
C	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

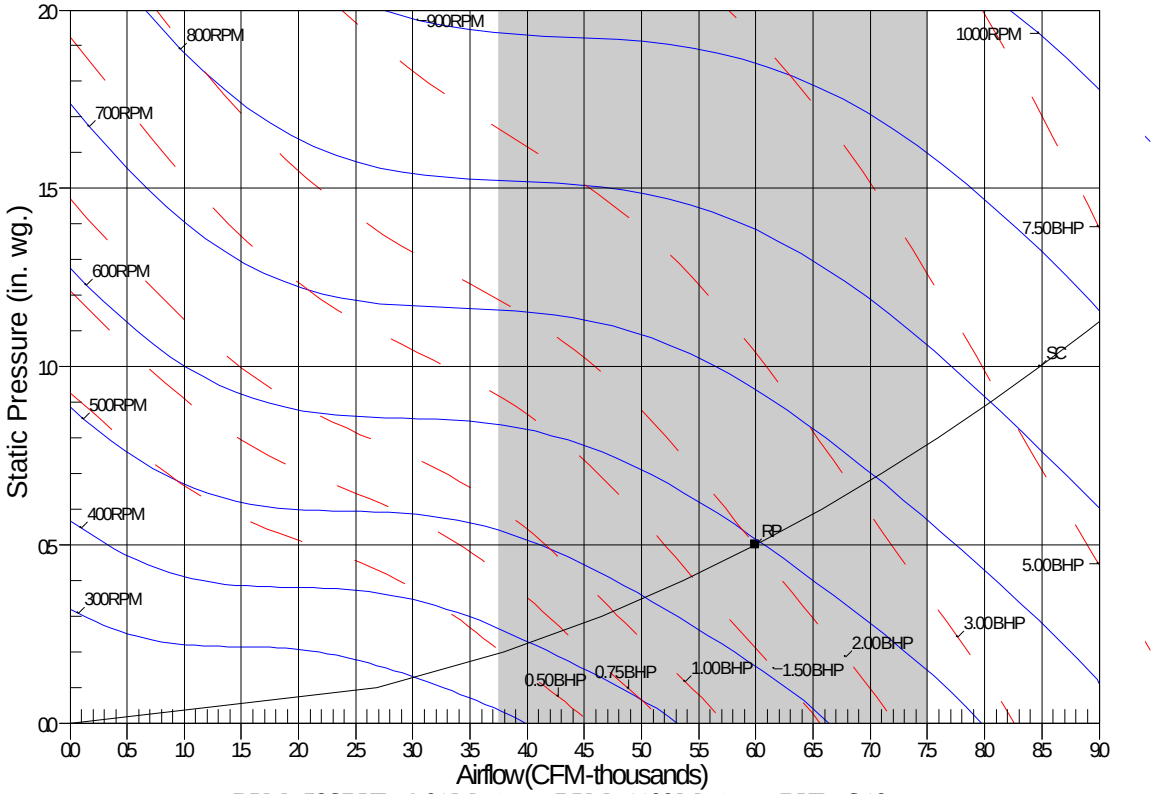
Legend
A Sound Power Levels at Unit's Acoustic Center, Lw
B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
C Sound Pressure Levels at Specific Distance from Unit, Lp
D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

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 PAQ 15 TR STD

Project: Juzgados Mérida 06/10/2014
Prepared By: 04:45p.m.

FanCurve



RPM=596 BHP=2.01 Maximum RPM=1100 Maximum BHP=6.10
Note: Please contact application engineering for selections outside the shaded region.
SC-System Curve RP-Rated Point

Unit Report For PAQ 20 TR STD

Project: Juzgados Mérida 06/10/2014
Prepared By: 04:45p.m.

Unit Parameters

Unit Model: **50TC-D24A1A5-0A0A0**
Unit Size: **24 (20 Tons)**
Volts-Phase-Hertz: **230-3-60**
Heating Type: **None**
Duct Cfg: **Vertical Supply / Vertical Return**
Round Tube Plate Fin Coils
Two-Stage Compressor Models

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

Unit Length: **11' 9.5"**
Unit Width: **7' 2.625"**
Unit Height: **4' 1.375"**
*** Total Operating Weight: **1973** 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: **6**
Return Air Filter Size: **20 x 25 x 2**

Unit Configuration

Standard Static Option Vertical Models
Al/Cu - Al/Cu
Base Electromechanical Controls
Standard Packaging

Warranty Information **(Net Price Ea.)**

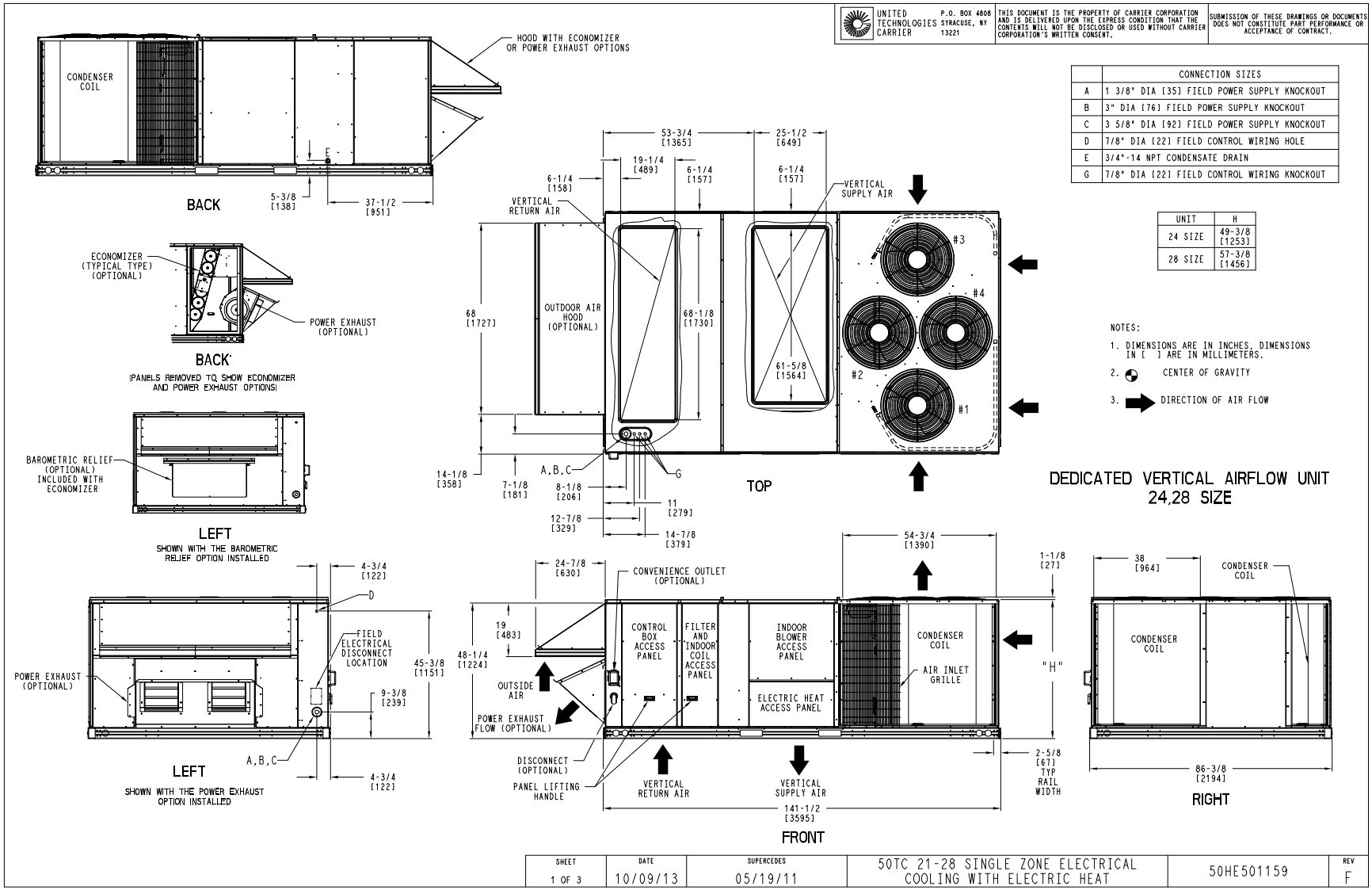
5-Year compressor parts (STD.) $0
1-Year parts (STD.) $0

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	Master Price (ea.)
50TC-D24A1A5-0A0A0	Rooftop Unit	1	$30,940
	Base Unit		$30,940
	Electromechanical control, No intake or exhaust option		
	None		


UNITED TECHNOLOGIES CARRIER
P.O. BOX 4808 SYRACUSE, NY 13221
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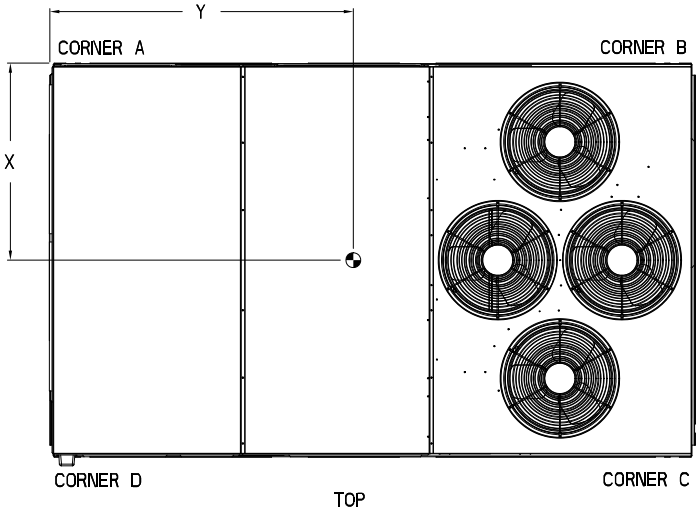
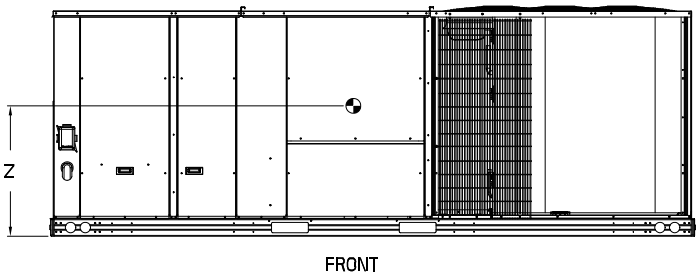
CONDENSER COIL
HOOD WITH ECONOMIZER OR POWER EXHAUST OPTIONS
BACK
5-3/8 [138]
37-1/2 [951]
ECONOMIZER (TYPICAL TYPE) (OPTIONAL)
POWER EXHAUST (OPTIONAL)
BACK
(PANELS REMOVED TO SHOW ECONOMIZER AND POWER EXHAUST OPTIONS)
BAROMETRIC RELIEF (OPTIONAL) INCLUDED WITH ECONOMIZER
LEFT
SHOWN WITH THE BAROMETRIC RELIEF OPTION INSTALLED
53-3/4 [1365]
25-1/2 [649]
19-1/4 [489]
6-1/4 [158]
6-1/4 [157]
6-1/4 [157]
VERTICAL RETURN AIR
VERTICAL SUPPLY AIR
OUTDOOR AIR HOOD (OPTIONAL)
68 [1727]
68-1/8 [1730]
61-5/8 [1564]
#1
#2
#3
#4
A,B,C
G
14-1/8 [358]
7-1/8 [181]
8-1/8 [206]
11 [279]
12-7/8 [329]
14-7/8 [379]
TOP
UNIT | H
24 SIZE | 49-3/8 [1253]
28 SIZE | 57-3/8 [1456]
NOTES:
1. DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW
DEDICATED VERTICAL AIRFLOW UNIT
24,28 SIZE
CONNECTION SIZES
A | 1 3/8" DIA [35] FIELD POWER SUPPLY KNOCKOUT
B | 3" DIA [76] FIELD POWER SUPPLY KNOCKOUT
C | 3 5/8" DIA [92] FIELD POWER SUPPLY KNOCKOUT
D | 7/8" DIA [22] FIELD CONTROL WIRING HOLE
E | 3/4"-14 NPT CONDENSATE DRAIN
G | 7/8" DIA [22] FIELD CONTROL WIRING KNOCKOUT
4-3/4 [122]
D
FIELD ELECTRICAL DISCONNECT LOCATION
45-3/8 [1151]
9-3/8 [239]
POWER EXHAUST (OPTIONAL)
A,B,C
4-3/4 [122]
LEFT
SHOWN WITH THE POWER EXHAUST OPTION INSTALLED
54-3/4 [1390]
24-7/8 [630]
CONVENIENCE OUTLET (OPTIONAL)
1-1/8 [27]
19 [483]
48-1/4 [1224]
CONTROL BOX ACCESS PANEL
FILTER AND INDOOR COIL ACCESS PANEL
INDOOR BLOWER ACCESS PANEL
ELECTRIC HEAT ACCESS PANEL
CONDENSER COIL
AIR INLET GRILLE
"H"
OUTSIDE AIR
POWER EXHAUST FLOW (OPTIONAL)
DISCONNECT (OPTIONAL)
PANEL LIFTING HANDLE
VERTICAL RETURN AIR
VERTICAL SUPPLY AIR
2-5/8 [67] TYP RAIL WIDTH
141-1/2 [3595]
FRONT
38 [964]
CONDENSER COIL
CONDENSER COIL
86-3/8 [2194]
RIGHT
SHEET 1 OF 3
DATE 10/09/13
SUPERCEDES 05/19/11
50TC 21-28 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT
50HE501159
REV F

UNIT	OUTDOOR COIL TYPE	STD. UNIT WEIGHT *		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
50TC24	MCHX	1862	846	359	163	506	230	583	265	414	188	46 1/8 [1172]	82 7/8 [2105]	16 1/2 [419]
50TC28	MCHX	1991	905	384	174	541	246	624	284	443	201	46 1/8 [1172]	82 7/8 [2105]	19 [483]
50TC21	RTPF	2003	911	445	202	367	167	557	253	547	249	47 1/2 [1207]	71 1/4 [1810]	16 1/2 [419]
50TC24	RTPF	1973	897	532	242	522	237	456	207	464	211	40 5/32 [1020]	70 [1778]	16 1/2 [419]
50TC25	RTPF	2148	976	510	232	525	238	564	257	549	250	44 5/8 [1133]	71 5/8 [1819]	19 [483]
50TC28	RTPF	2098	954	545	248	539	245	504	229	510	232	41 21/32 [1058]	70 1/4 [1784]	19 [483]

RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)
MCHX - NOVATION (ALUM/ALUM)

* STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING. FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.





SHEET	DATE	SUPERCEDES			REV
3 OF 3	10/09/13	05/19/11	50TC 21-28 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	50HE501159	F

Performance Summary For PAQ 20 TR STD

Project: Juzgados Mérida 06/10/2014
Prepared By: 04:45p.m.

Part Number:50TC-D24A1A5-0A0A0

ARI EER:	**10.00**	
IEER:	**10.8**	

Base Unit Dimensions

Unit Length:	**141.5**	in
Unit Width:	**86.6**	in
Unit Height:	**49.4**	in

Operating Weight

Base Unit Weight:	**1973**	lb
Total Operating Weight:	**1973**	lb

Unit

Unit Voltage-Phase-Hertz:	**230-3-60**	
Air Discharge:	**Vertical**	
Fan Drive Type:	**Belt**	
Actual Airflow:	**8000**	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:	**57.7**	F
Evaporator Leaving Air WB:	**56.9**	F
Evaporator Leaving Air Enthalpy:	**24.32**	BTU/lb
Gross Cooling Capacity:	**256.10**	MBH
Gross Sensible Capacity:	**192.60**	MBH
Compressor Power Input:	**19.80**	kW
Coil Bypass Factor:	**0.081**	

Supply Fan

External Static Pressure:	**0.50**	in wg
Fan RPM:	**720**	
Fan Power:	**2.92**	BHP
NOTE:	**Selected IFM RPM Range: 690 - 863**	

Electrical Data

Voltage Range:	**187 - 253**
Compressor #1 RLA:	**48.1**
Compressor #1 LRA:	**245**
Compressor #2 RLA:	**29.5**
Compressor #2 LRA:	**195**
Indoor Fan Motor Type:	**STD**
Indoor Fan Motor FLA:	**12.7**
Power Supply MCA:	**108.3**
Power Supply MOCP (Fuse or HACR):	**150**
Min. Unit Disconnect FLA:	**111**
Min. Unit Disconnect LRA:	**540**
Electrical Convenience Outlet:	**None**
Outdoor Fan [Qty / FLA (ea)]:	**4 / 1.5**

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

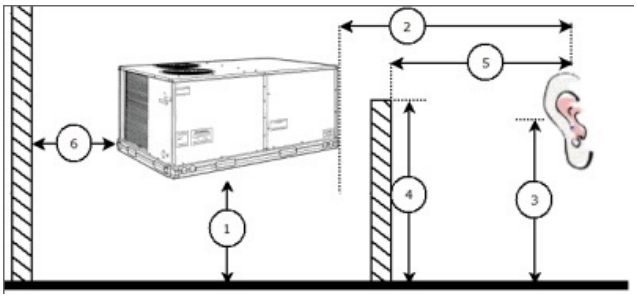
Sound Rating:	**87.0**	db

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	90.3	86.5	95.6

125 Hz	79.6	68.9	87.5
250 Hz	73.2	63.0	84.2
500 Hz	75.1	62.6	84.2
1000 Hz	70.0	55.1	81.7
2000 Hz	68.9	49.6	77.9
4000 Hz	69.3	46.3	73.2
8000 Hz	61.8	38.6	66.3
A-Weighted	77.4	64.6	86.5

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
A	95.6	87.5	84.2	84.2	81.7	77.9	73.2	66.3	96.9 Lw
B	69.4	71.4	75.6	81.0	81.7	79.1	74.2	65.2	86.5 LwA
C	63.2	55.1	51.8	51.8	49.3	45.5	40.8	33.9	64.5 Lp
D	37.0	39.0	43.2	48.6	49.3	46.7	41.8	32.8	54.1 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

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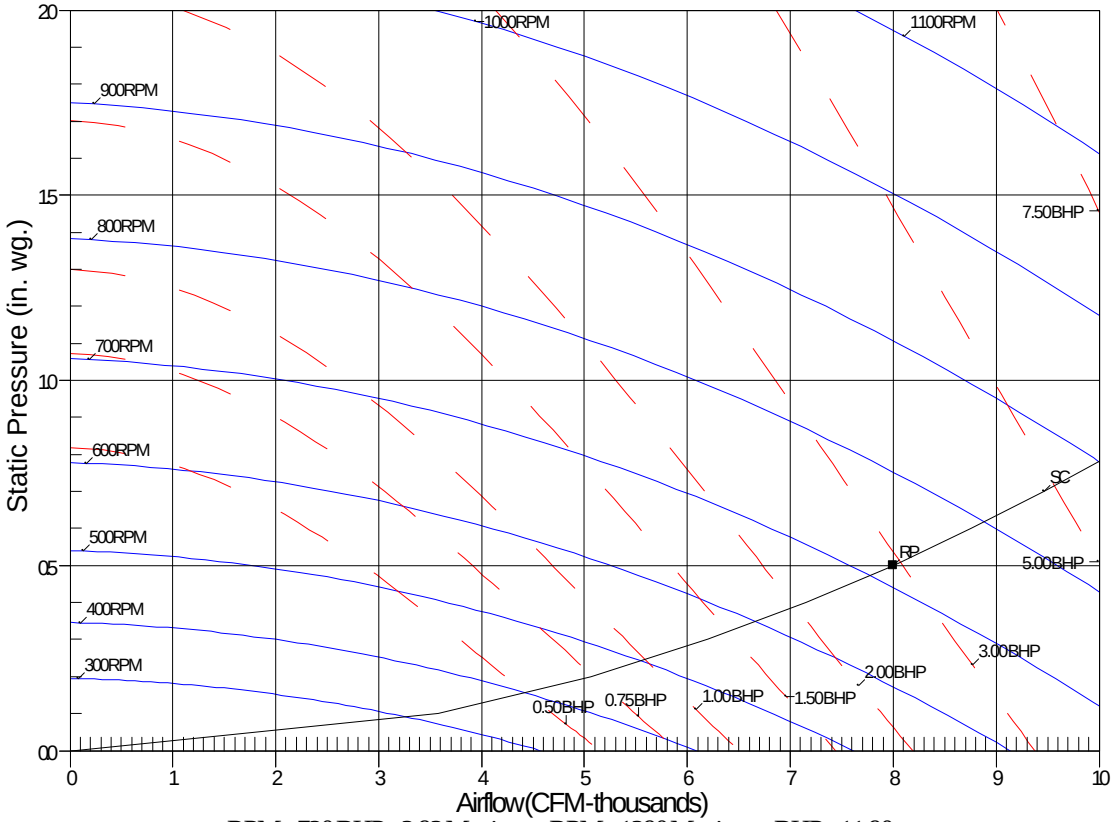
Performance Summary For PAQ 20 TR STD

Project: Juzgados Mérida 06/10/2014
Prepared By: 04:45p.m.

FanCurve



RPM=720 BHP=2.92 MaximumRPM=1290 MaximumBHP=11.90
SC-SystemCurve RP-RatedPoint