



January 19, 2023

Subject: Petsuites – Cypress Springs  
7510 Fry Road  
Cypress, Texas 77433  
ASEI Project #220650

Re: Packaged Rooftop Unit Submittals

We have reviewed the submittals for the subject project and have the following comments, as indicated below.

- 1) New equipment has lower MOCP values from those originally scheduled. It is recommended to coordinate this information with Electrical contractor and Engineer to have proper overcurrent protection.

Reviewed                       Furnish as Corrected  
 Rejected                         Revise and Resubmit  
 Submit Specific Item

This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabricator processes or to the means, methods, techniques, sequences and procedures of construction; coordination of his or her work with that of all other trades; and performing all work in a safe and satisfactory manner.

ASEI Engineering  
2410 W. Royal Palm Rd., Suite A  
Phoenix, AZ 85021  
Phone: (602) 287-0300

Date: 1/19/2023	By: ASEI
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Sincerely,

David E. McCarthy, PE  
*Mechanical Engineer*

ASEIENGINEERING  
[www.aseiengineering.com](http://www.aseiengineering.com)

Pet Suites - Cypress Springs  
7510 Fry Road  
Cypress, Texas 77433

**SUBCONTRACTOR**

Comfort Systems USA (South Central)  
9745 Bent Oak Drive  
Houston, TX 77040  
P: 832-590-5700  
F: 713-856-9720

**ARCHITECT**

Identity Architects Inc.  
111 Travis St.  
Houston, Texas 77002  
(713) 595-2192

**SUPPLIER**

Carrier Enterprise South Texas  
16230 Port Northwest Dr.  
Houston, Texas 77041  
(713) 939-6906

**GENERAL CONTRACTOR**

Construction LTD  
1825 Upland Drive  
Houston, Texas 77043  
(281) 884-2477

Specification Section: 23 74 16

Description: Packaged Rooftop Air-Handlers

**SUBCONTRACTOR'S REVIEW**

We have reviewed these items for conformance with the specifications and note the following exceptions.

Rooftop Units Curbs by PEMB supplier per detail 1 on drawing M4.0

**GENERAL CONTRACTORS'S REVIEW**

We have reviewed these drawings and certify to the best of our knowledge that all quantities, dimensions and materials conform to the information presented in the plans and specifications.

By: \_\_\_\_\_

Date: \_\_\_\_\_

Submittal Number: \_\_\_\_\_

**ARCHITECT'S REVIEW**

Kelvin Jones  
Project Manager

Date: 8/31/2022



## **SUBMITTAL**

### **Project**

Pet Suites of America - Cypress - 7510 Fry Rd

### **Date**

Tuesday, July 12, 2022

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Prepared By:

08/26/2022  
03:09PM

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**RTU-1, 2A, 2B**

**Tag Cover Sheet  
Unit Report  
Certified Drawing  
Performance Report**

## Unit Report For RTU-1, 2A, 2B

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Unit Parameters

Unit Model:..... **48GCDN05A3M5-6B1C0**  
 Unit Size: ..... **05 (4 Tons)**  
 Volts-Phase-Hertz: ..... **208-3-60**  
 Heating Type:..... **Gas**  
 Duct Cfg:..... **Vertical Supply / Vertical Return**  
 Low Heat  
 Two Stage Cooling with Humidi-MiZer

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

Unit Length:..... **6' 2.375"**  
 Unit Width: ..... **3' 10.625"**  
 Unit Height: ..... **2' 9.375"**  
**\*\*\* Total Operating Weight: ..... 632 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

Gas Line Size:..... **1/2**  
 Condensate Drain Line Size: ..... **3/4**  
 Return Air Filter Type:..... **Throwaway**  
 Return Air Filter Quantity: ..... **2**  
 Return Air Filter Size:..... **16 x 25 x 2**

**Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.**

### Unit Configuration

**Direct Drive - EcoBlue - High Static**  
 Al/Cu - Al/Cu - Louvered Hail Guards  
 Electromechanical Controls w/W7220 Econo Controller  
 Temperature Economizer w/ Barometric Relief  
 Unpowered Convenience Outlet  
 Non-Fused Disconnect  
 Standard Packaging  
 Humidi-MiZer™ Adaptive Dehumidification System

### Warranty Information

1-Year parts(std.)  
 5-Year compressor parts(std.)  
 10-Year heat exchanger - Aluminized(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
48GCDN05A3M5-6B1C0	Rooftop Unit	3
	Base Unit	
	Direct Drive - EcoBlue - High Static	
	Al/Cu - Al/Cu - Louvered Hail Guards	
	Unpowered Convenience Outlet	
	Non-Fused Disconnect	
	Humidi-MiZer™ Adaptive Dehumidification System	
	Std leak Temp Econo X with baro relief, W7220 control. Meets Calf. Title 24 FDD	
<b>Field Installed Accessories</b>		
CRTIMEGD001A00	Time Guard II	3
33CS2PP2S-03	Thermostat	3
--HL--38MG-029	Humidistat	3

# Certified Drawing for RTU-1, 2A, 2B

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
Prepared By:

08/26/2022  
03:09PM

**NOTES:**

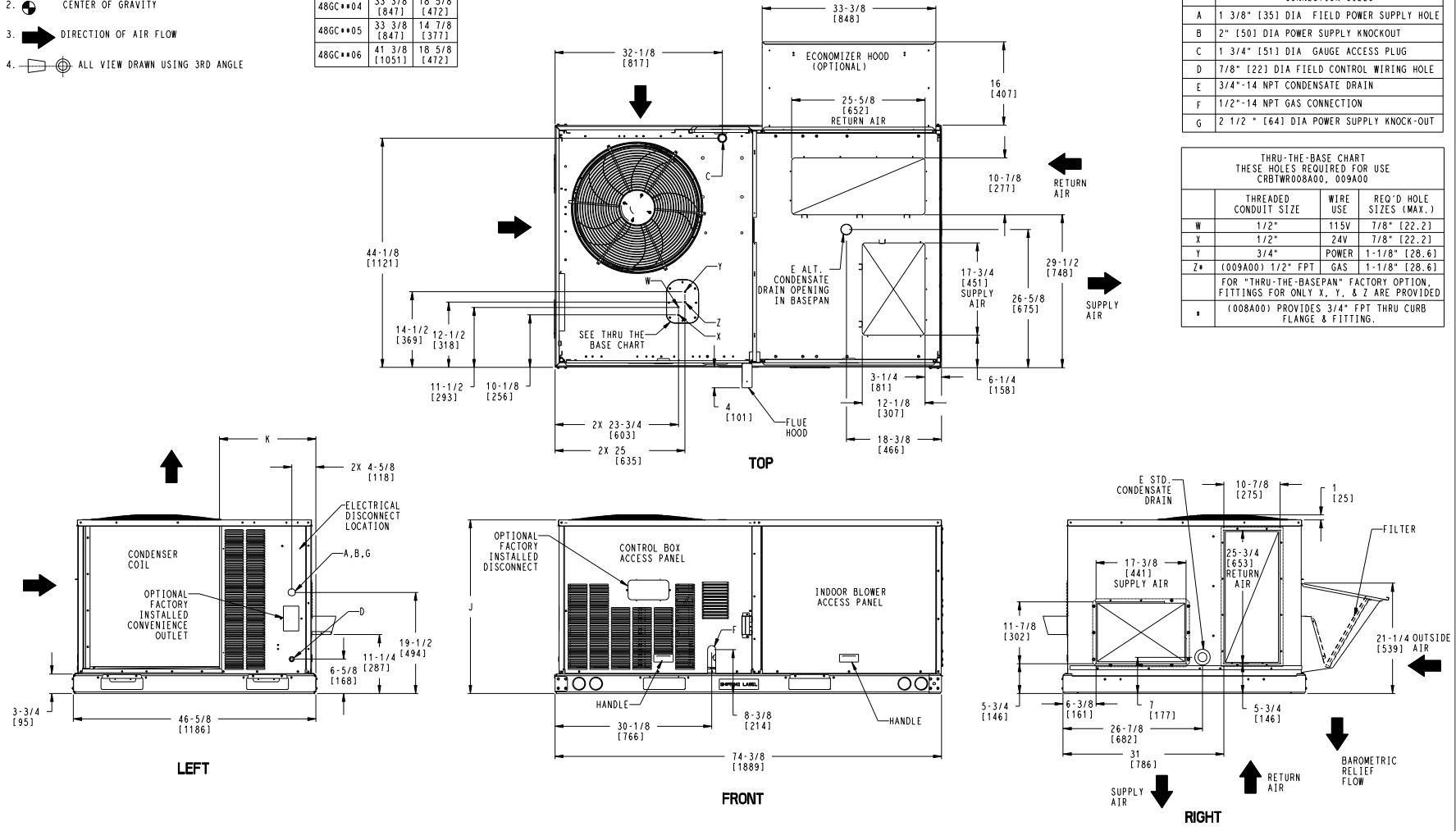
1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW
4. ALL VIEW DRAWN USING 3RD ANGLE

UNIT	J	K
48GC**04	33 3/8 [847]	18 5/8 [472]
48GC**05	33 3/8 [847]	14 7/8 [377]
48GC**06	41 3/8 [1051]	18 5/8 [472]

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CONNECTION SIZES	
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2" [50] DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [45] DIA GAUGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
F	1/2"-14 NPT GAS CONNECTION
G	2 1/2" [64] DIA POWER SUPPLY KNOCK-OUT

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTWR008A00, 009A00			
THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)	
W	115V	7/8" [22.2]	
X	24V	7/8" [22.2]	
Y	POWER	1-1/8" [28.6]	
Z*	(009A00) 1/2" FPT GAS	1-1/8" [28.6]	
FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED			
* (008A00) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING.			



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003099	REV
U.S. ECCN: NSR	1 OF 3	09/07/18	08/03/18			B

# Certified Drawing for RTU-1, 2A, 2B

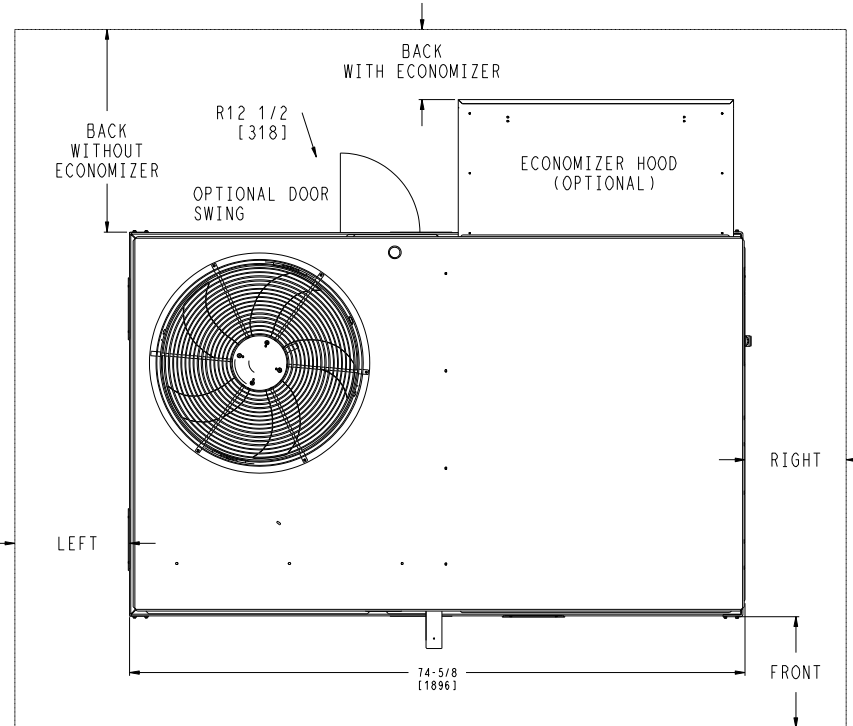
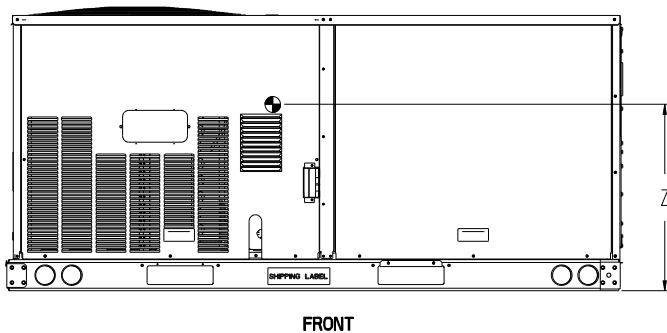
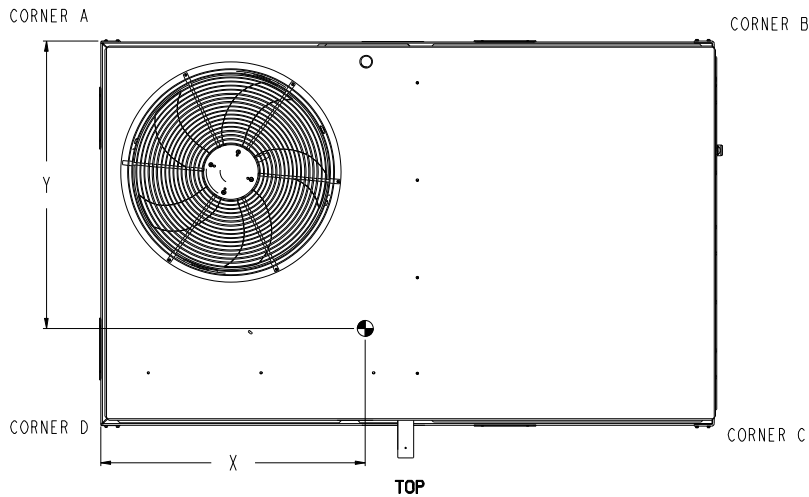
Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

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	
48GC**04	513	233	131	59	127	58	125	57	130	59	36 1/2 [927]	23 1/4 [591]	18 1/4 [464]	
48GC**05	555	252	142	64	137	62	135	61	141	64	36 1/2 [927]	23 1/4 [591]	18 [457]	
48GC**06	600	272	161	73	151	68	140	64	149	68	36 [914]	22 1/2 [572]	19 3/8 [492]	

\* - STANDARD UNIT WEIGHT IS WITH LOW GAS HEAT AND WITHOUT PACKAGING.  
 FOR OTHER OPTINS AND ACCESSORIES REFER TO THE PRODUCT DATA CATALOG.

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NOTES:  
 1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

SURFACE	CLEARANCE		OPERATING CLEARANCE
	SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER	
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

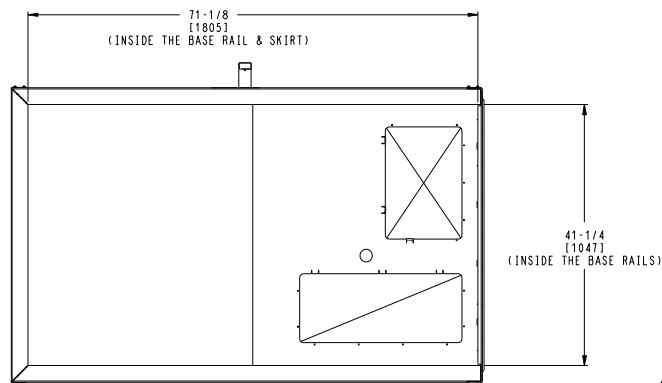
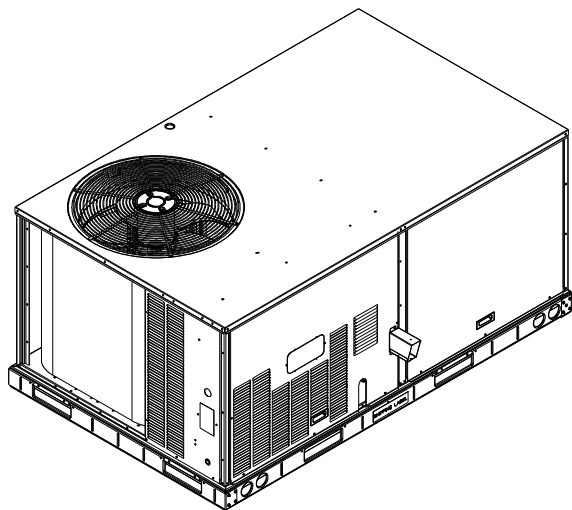
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003099	REV
U.S. ECCN:NSR	2 OF 3	09/07/18	08/03/18			B

# Certified Drawing for RTU-1, 2A, 2B

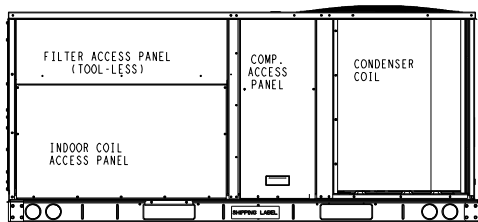
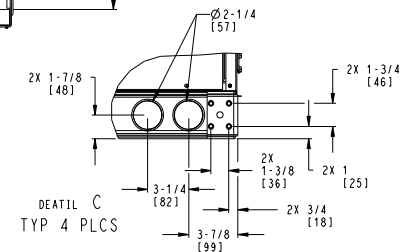
Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

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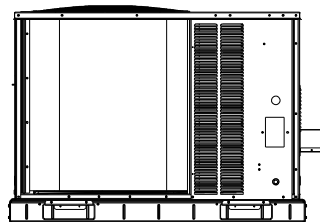
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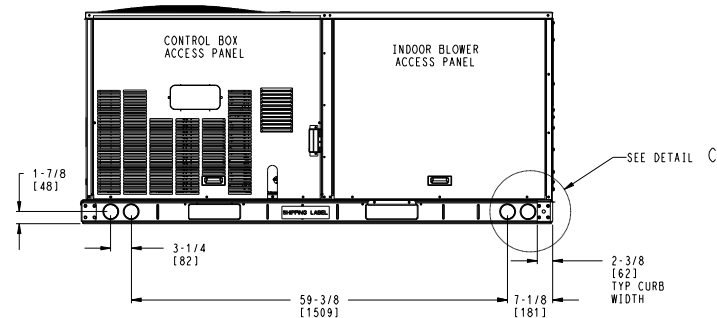
INSIDE BASERAIL DIMENSIONS  
**BOTTOM**



**BACK**



**LEFT**



**FRONT**

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003099	REV
U.S. ECCN: NSR	3 OF 3	09/07/18	08/03/18			B

## Performance Summary For RTU-1, 2A, 2B

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Part Number: 48GCDN05A3M5-6B1C0

ARI SEER: ..... 16.10

#### Base Unit Dimensions

Unit Length: ..... 74.4 in  
 Unit Width: ..... 46.6 in  
 Unit Height: ..... 33.4 in

#### Operating Weight

Base Unit Weight: ..... 555 lb  
 Two Stage Cooling with Humidi-MiZer: ..... 15 lb  
Direct Drive - EcoBlue - High Static: ..... 5 lb  
 Al/Cu - Al/Cu - Louvered Hail Guards: ..... 13 lb  
 Temperature Economizer w/ Barometric Relief: ..... 35 lb  
 Unpowered Convenience Outlet: ..... 4 lb  
 Non-Fused Disconnect: ..... 5 lb  
  
 Total Operating Weight: ..... 632 lb

#### Unit

Unit Voltage-Phase-Hertz: ..... 208-3-60  
Air Discharge: ..... Vertical  
 Fan Drive Type: ..... Vane Axial  
Actual Airflow: ..... 1700 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: ..... 59.1 F  
 Evaporator Leaving Air WB: ..... 57.7 F  
 Evaporator Leaving Air Enthalpy: ..... 24.85 BTU/lb  
 Gross Cooling Capacity: ..... 50.38 MBH  
 Gross Sensible Capacity: ..... 38.30 MBH  
 Compressor Power Input: ..... 3.28 kW  
 Coil Bypass Factor: ..... 0.068

#### Heating Performance

Heating Airflow: ..... 1700 CFM  
 Entering Air Temp: ..... 70.0 F  
 Leaving Air Temp: ..... 99.4 F  
 Gas Heating Input Capacity: ..... 50.0 / 67.0 MBH  
 Gas Heating Output Capacity: ..... 40.0 / 54.0 MBH  
 Temperature Rise: ..... 29.4 F  
 Thermal Efficiency (%): ..... 81.0

#### Supply Fan

External Static Pressure: ..... 1.00 in wg  
 Options / Accessories Static Pressure  
     Humidi-MiZer Dehumidification System: ..... 0.15 in wg  
     Economizer: ..... 0.08 in wg  
Total Application Static (ESP + Unit Opts/Acc.): ..... 1.23 in wg  
Fan RPM: ..... 2300  
Fan Power: ..... 1.31 BHP  
 NOTE: ..... Selected IFM RPM Range: 1262 - 2660

**Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.**

## Performance Summary For RTU-1, 2A, 2B

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Electrical Data

Voltage Range: .....	<b>187 - 253</b>
Compressor #1 RLA: .....	<b>14</b>
Compressor #1 LRA: .....	<b>83</b>
Indoor Fan Motor Type: .....	<b>HIGH</b>
Indoor Fan Motor FLA: .....	<b>5.1</b>
Combustion Fan Motor FLA (ea): .....	<b>0.48</b>
Power Supply MCA: .....	<b>25</b>
Power Supply MOCP (Fuse or HACR): .....	<b>30</b>
Disconnect Size FLA: .....	<b>24</b>
Disconnect Size LRA: .....	<b>94</b>
Electrical Convenience Outlet: .....	<b>None</b>
Outdoor Fan [Qty / FLA (ea)]: .....	<b>1 / 1.5</b>

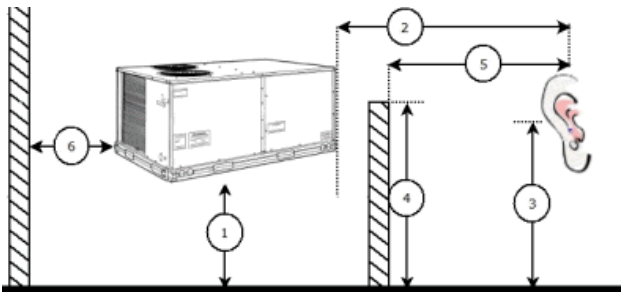
**Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage**

### Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	96.6	91.5	85.6
125 Hz	88.4	83.2	84.7
250 Hz	82.2	74.4	80.5
500 Hz	76.3	69.9	76.0
1000 Hz	73.8	71.0	72.4
2000 Hz	71.2	62.8	68.0
4000 Hz	66.5	56.0	62.8
8000 Hz	61.9	49.7	59.3
A-Weighted	80.8	75.1	79.0

### 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	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3	89.2 Lw

## Performance Summary For RTU-1, 2A, 2B

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

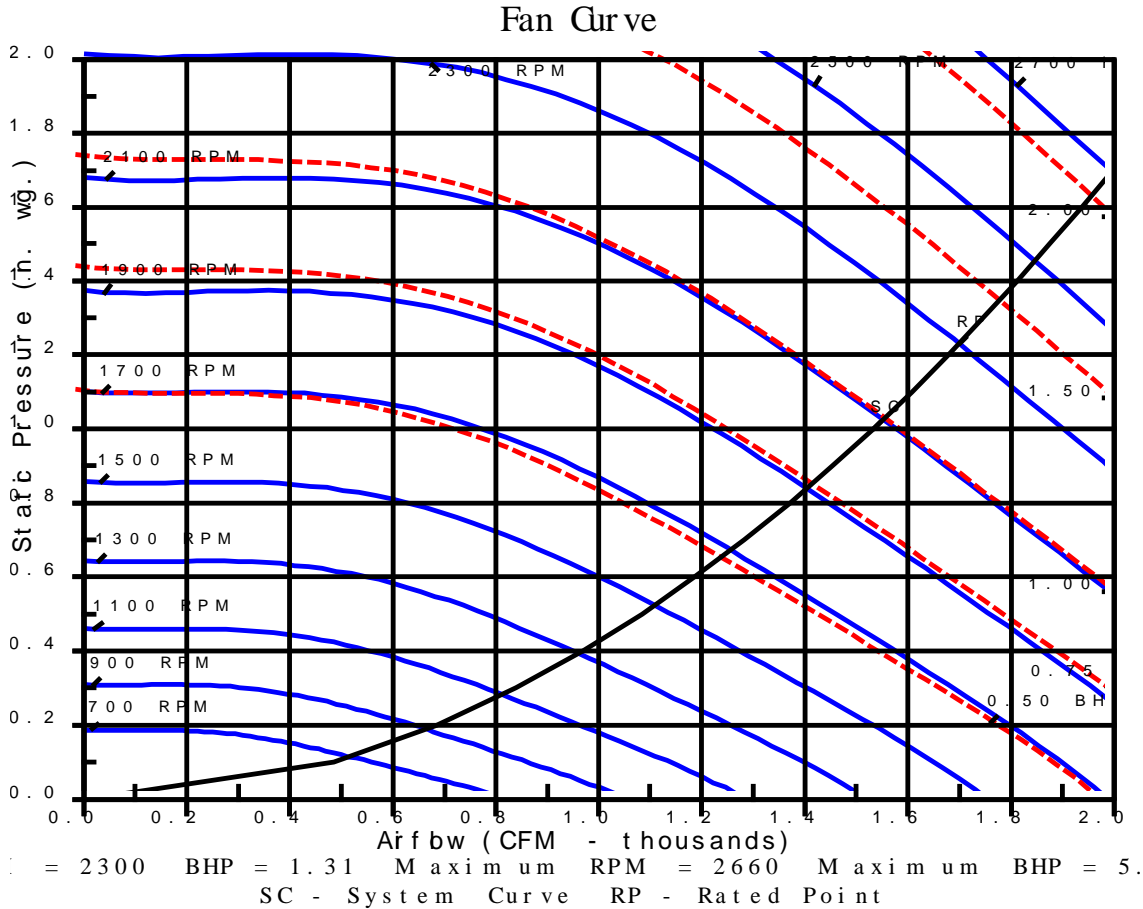
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B	59.4	68.6	71.9	72.8	72.4	69.2	63.8	58.2	78.5 LwA
C	53.2	52.3	48.1	43.6	40.0	35.6	30.4	26.9	56.8 Lp
D	27.0	36.2	39.5	40.4	40.0	36.8	31.4	25.8	46.1 LpA

**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

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.



**RTU-3**

**Tag Cover Sheet  
Unit Report  
Certified Drawing  
Performance Report**

## Unit Report For RTU-3

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Unit Parameters

Unit Model:..... **48VG-A300605**  
 Unit Size: ..... **30 (2.5 Tons)**  
 Volts-Phase-Hertz: ..... **208-3-60**  
 Heating Type:..... **Gas**  
 Duct Cfg:..... **Vertical Supply / Vertical Return**  
 60,000 Btuh  
 Standard Unit

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

Unit Length:..... **4' 0.1875"**  
 Unit Width: ..... **2' 8.625"**  
 Unit Height: ..... **3' 8.125"**

\*\*\* Weights and Dimensions are approximate. Weight does not include roof curbs, unit packaging, field installed accessories or factory installed options. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to

appropriate product data catalog.

**Base Unit Weight (Does not include any accessories):**  
 ..... **351 lb**

### Warranty Information

- 1 year warranty on parts
- 5 year warranty on compressor
- 5 year warranty on heat exchanger

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
48VG-A300605	Rooftop Unit	1
	Base Unit	
<b>Field Installed Accessories</b>		
CPLOWAMB001A00	Motormaster II Low Ambient Control	1
CRTIMEGD001A00	Time Guard II	1
33CS2PP2S-03	Edge® Pro splitable 7-Day Programmable/Non-Prog	1
CPFILTRK007A00	Internal Filter Rack	1
Third Party	Rawal Valve for Hot Gas Bypass	1
Third Party: COAIES60-25A	2-Position Motorized Damper	1

**Certified Drawing for RTU-3**

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
Prepared By:

08/26/2022  
03:09PM

**There is no Certified Drawing available for this tag**

# Performance Summary For RTU-3

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
Prepared By:

08/26/2022  
03:09PM

## Part Number: 48VG-A300605

ARI SEER: ..... 15.00

### Base Unit Dimensions

Unit Length: ..... 48.2 in  
Unit Width: ..... 32.6 in  
Unit Height: ..... 44.1 in

Base Unit Weight (Does not include any accessories): ..... 351 lb

### Unit

Unit Voltage-Phase-Hertz: ..... 208-3-60  
Air Discharge: ..... Vertical  
Fan Drive Type: ..... Direct  
Actual Airflow: ..... 1073 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: ..... 61.0 F  
Evaporator Leaving Air WB: ..... 58.5 F  
Evaporator Leaving Air Enthalpy: ..... 25.39 BTU/lb  
Net Cooling Capacity: ..... 29.23 MBH  
Net Sensible Capacity: ..... 22.01 MBH  
Total Unit Power Input: ..... 2.44 kW  
Coil Bypass Factor: ..... 0.000

### Heating Performance

Heating Airflow: ..... 1073 CFM  
Entering Air Temp: ..... 70.0 F  
Leaving Air Temp: ..... 112.3 F  
Gas Heating Input Capacity: ..... 60.0 MBH  
Gas Heating Output Capacity: ..... 49.0 MBH  
Temperature Rise: ..... 42.3 F  
AFUE (%): ..... 78.6

### Supply Fan

External Static Pressure: ..... 0.20 in wg  
Options / Accessories Static Pressure  
Filter: ..... 0.10 in wg  
Wet Coil: ..... 0.06 in wg  
Total Application Static (ESP + Unit Opts/Acc.): ..... 0.36 in wg  
Fan RPM: ..... 1050  
Fan Power: ..... 0.31 BHP  
Fan Motor Size, hp: ..... 1/2  
NOTE: ..... Med-High Motor Speed, Vert

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

### Electrical Data

Minimum Voltage: ..... 197  
Maximum Voltage: ..... 253  
Compressor RLA: ..... 8.7  
Compressor LRA: ..... 58  
Outdoor Fan FLA (ea): ..... 1.2  
Indoor Fan Motor FLA: ..... 4.1  
Power Supply MCA: ..... 16.2

## Performance Summary For RTU-3

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

Power Supply MOCP (Fuse or HACR): .....20

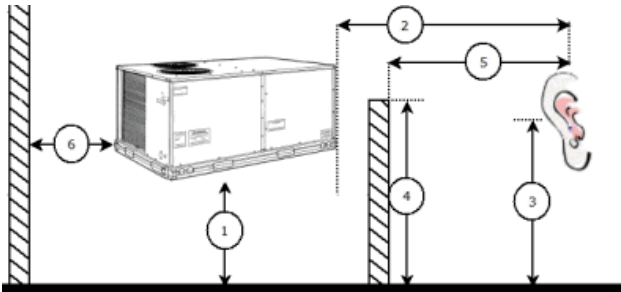
### Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

### Acoustics

Sound Rating: .....77.0 db  
 Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	NA	NA	NA
125 Hz	NA	NA	57.5
250 Hz	NA	NA	67.0
500 Hz	NA	NA	73.5
1000 Hz	NA	NA	72.0
2000 Hz	NA	NA	67.0
4000 Hz	NA	NA	61.0
8000 Hz	NA	NA	52.5

### 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	0.0	57.5	67.0	73.5	72.0	67.0	61.0	52.5	77.0 Lw
B	-26.2	41.4	58.4	70.3	72.0	68.2	62.0	51.4	75.5 LwA
C	0.0	25.1	34.6	41.1	39.6	34.6	28.6	20.1	44.6 Lp
D	-26.2	9.0	26.0	37.9	39.6	35.8	29.6	19.0	43.1 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

## Performance Summary For RTU-3

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
Prepared By:

08/26/2022  
03:09PM

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.

**RTU-4 and 5**

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
Prepared By:

08/26/2022  
03:09PM

**RTU-4 and 5**

**Tag Cover Sheet  
Unit Report  
Certified Drawing  
Performance Report**

## Unit Report For RTU-4 and 5

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Unit Parameters

Unit Model:..... **48FCSN09B3M5-6W1C0**  
 Unit Size:..... **09 (8.5 Tons)**  
 Volts-Phase-Hertz: ..... **208-3-60**  
 Heating Type:..... **Gas**  
 Duct Cfg:..... **Vertical Supply / Vertical Return**  
 Stainless Steel, Low Heat  
 Single Circuit, Two Stage Cooling with Humidi-MiZer

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

Unit Length:..... **7' 4.125"**  
 Unit Width: ..... **4' 11.5"**  
 Unit Height: ..... **4' 1.375"**  
**\*\*\* Total Operating Weight: ..... 979 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

Gas Line Size:..... **1/2**  
 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**

**Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.**

### Unit Configuration

RA Smoke Detector  
 High Static (EcoBlue)  
 Al/Cu - Al/Cu - Louvered Hail Guards  
 Electromechanical Controls w/W7220 Econo Controller  
 Enthalpy Ultra Low Leak Econo w/Baro Relief  
 Unpowered Convenience Outlet  
 Non-Fused Disconnect  
 Standard Packaging  
 Humidi-MiZer™ Adaptive Dehumidification System

### Warranty Information

1-Year parts(std.)  
 5-Year compressor parts(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
48FCSN09B3M5-6W1C0	Rooftop Unit	2
	Base Unit	
	RA Smoke Detector	
	High Static (EcoBlue)	
	Al/Cu - Al/Cu - Louvered Hail Guards	
	Unpowered Convenience Outlet	
	Non-Fused Disconnect	
	Humidi-MiZer™ Adaptive Dehumidification System	
	Ultra Low leak Enty Econo X with baro relief, W7220 control. Meets Calif. Title 24 FDD & Leak Rates	
<b>Field Installed Accessories</b>		
33CS2PP2S-03	Edge® Pro splittable 7-Day Programmable/Non-Prog	2
--HL--38MG-029	Humidistat	2
CRTIMEGD001A00	Time Guard II	2

# Certified Drawing for RTU-4 and 5

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
Prepared By:

08/26/2022  
03:09PM

- NOTES:
1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
  2. CENTER OF GRAVITY
  3. DIRECTION OF AIR FLOW
  4. ALL VIEW DRAWN USING 3RD ANGLE

UNIT	OUTDOOR COIL TYPE	J	K	H
48FC-M08	RTPF	41 1/4 [1048]	33 3/4 [857]	15 3/8 [403]
48FC-M09	RTPF	49 3/8 [1253]	36 3/8 [925]	15 3/8 [403]
48FC-M12	RTPF	49 3/8 [1253]	36 3/8 [925]	15 3/8 [403]

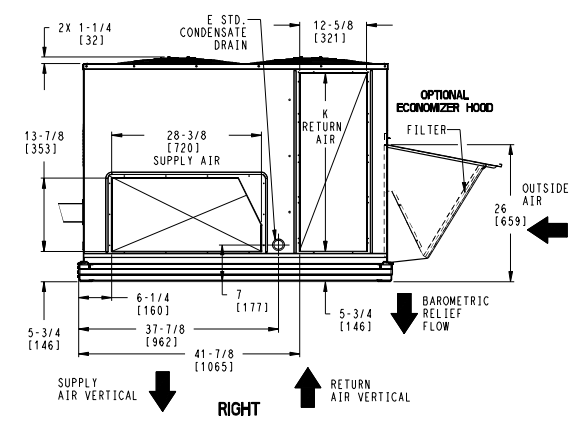
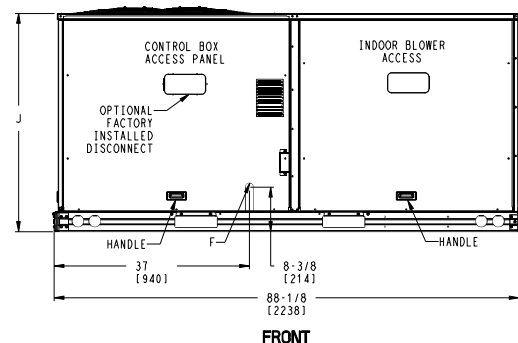
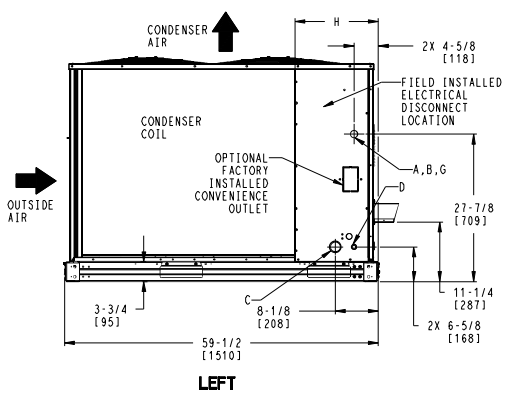
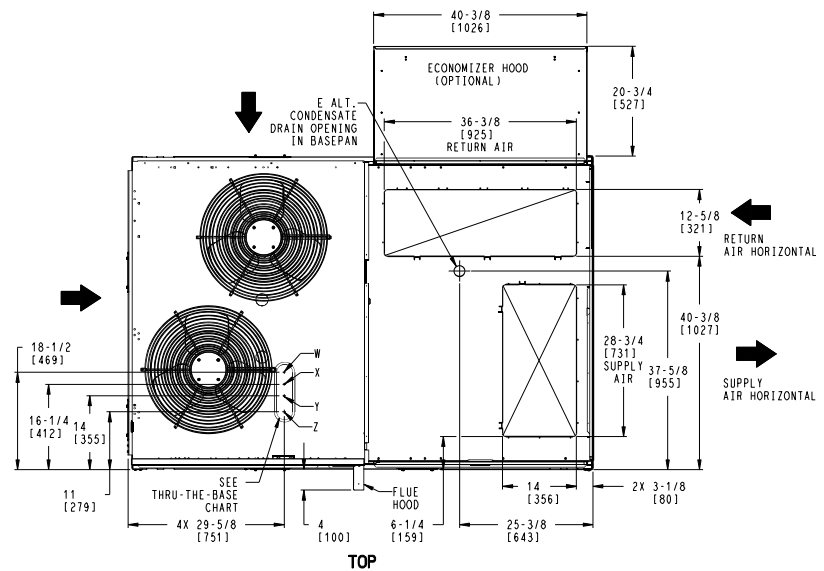
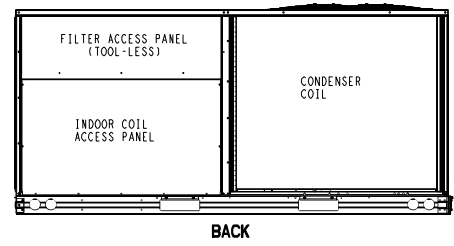
RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)

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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
F	1/2" - 14 NPT GAS CONNECTION
G	3/4" - 14 NPT GAS CONNECTION
G	2" [51] DIA POWER SUPPLY KNOCK-OUT

THRU-THE-BASE CHART (FIELD INST)			
THESE HOLES REQUIRED FOR USE WITH ACCY KITS: CRBTMPR002A01: GAS THRU CURB CRBTMPR004A01: GAS THRU BASEPAN			
W	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
	1/2"	ACC.	7/8" [22.2]
X	1/2"	24V	7/8" [22.2]
Y	1 1/4" (002,004)	POWER	1 3/4" [44.4]
Z *	(004) 3/4" FPT	GAS	1 3/4" [44.4]
* (002) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING. HOLE SIZE: 2" [50.8]			

THRU-THE-BASE CHART (FIOP)	
FOR "THRU-THE-BASEPAN" FACTORY OPTION FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED. **	
** FOR BELOW LISTED MODELS, A FIELD SUPPLIED 1/2" ADAPTER IS REQUIRED BETWEEN BASE PAN FITTING AND GAS VALVE: 48FCD, S+08, 09	



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 08-12 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	48TM006295	REV
U.S. ECCN:NSR	1 OF 3	03/12/21	-			-

# Certified Drawing for RTU-4 and 5

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

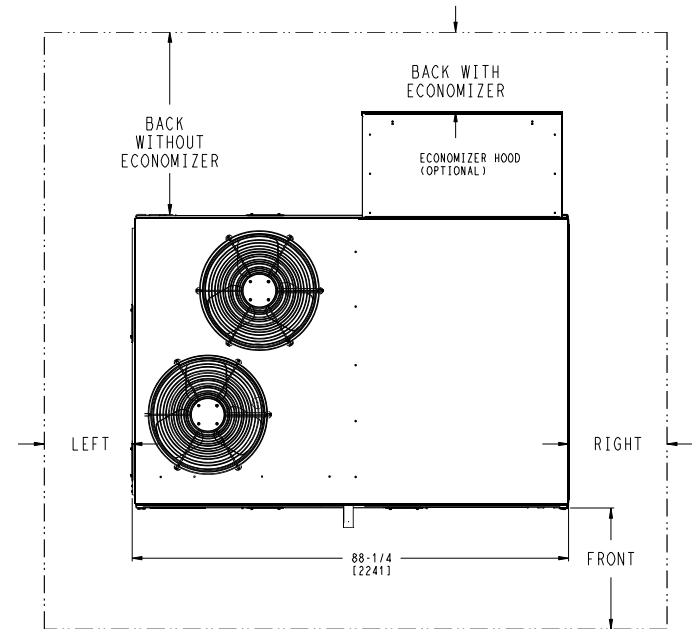
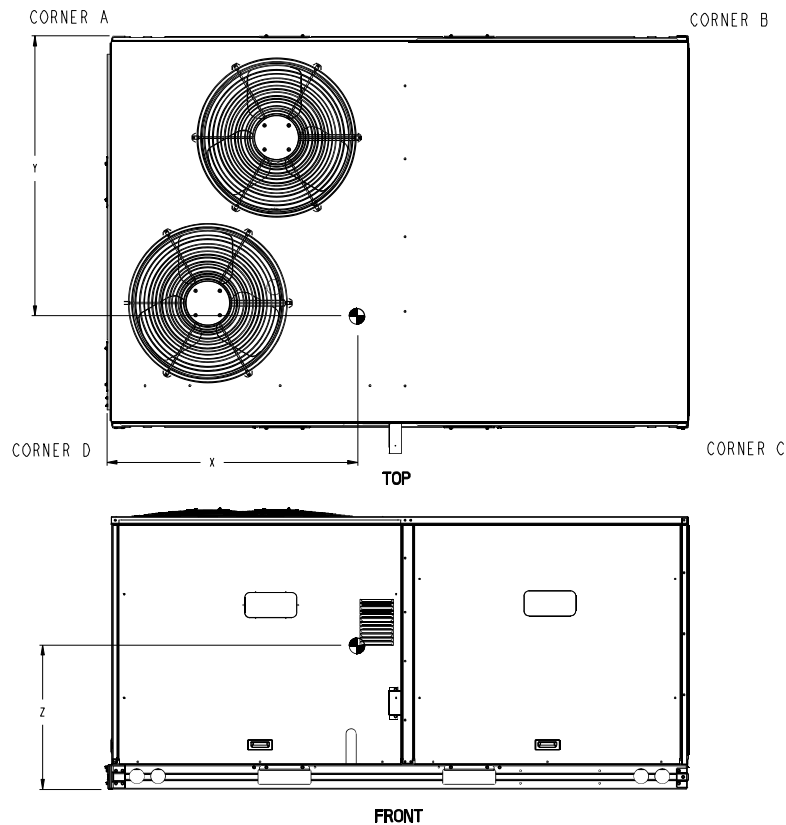
08/26/2022  
 03:09PM

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	
48FC-M08	RTPF	787	357	181	82	150	68	207	94	249	113	40	1/2 [1016]	34 1/2 [876]	19 3/8 [492]
48FC-M09	RTPF	868	394	197	89	160	73	229	104	282	128	39 1/2 [1003]	35 [889]	18 5/8 [473]	
48FC-M12	RTPF	878	398	213	97	175	80	221	100	268	121	39 7/8 [1013]	33 1/4 [841]	18 1/2 [470]	

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

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



NOTE:  
 1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

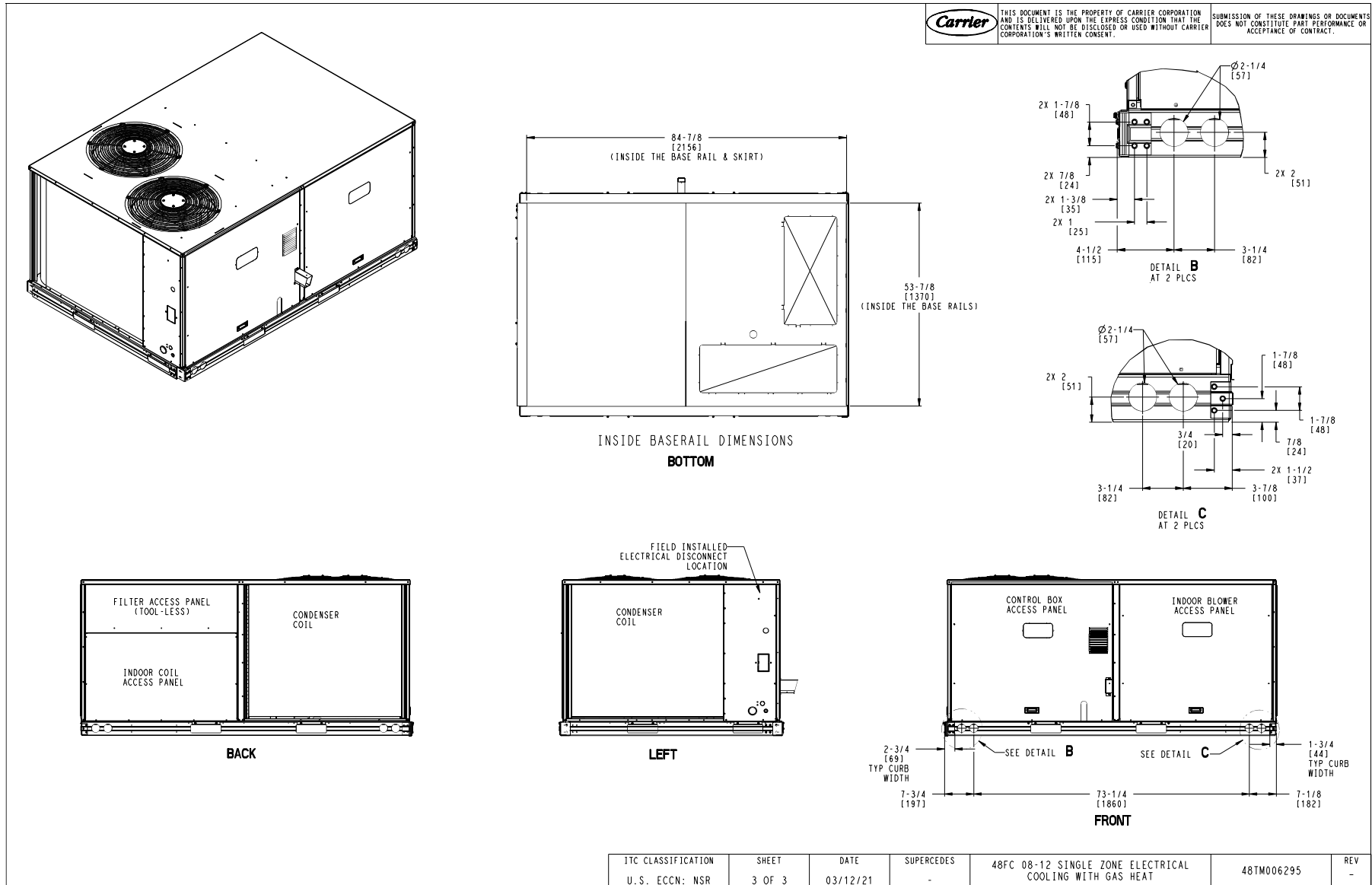
SURFACE	SERVICE WITH:		OPERATING CLEARANCE
	CONDUCTIVE BARRIER	NONCONDUCTIVE BARRIER	
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/O ECON	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/ECON	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 08-12 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	48TM006295	REV
U.S. ECCN:NSR	2 OF 3	03/12/21	-			-

# Certified Drawing for RTU-4 and 5

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 08-12 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	48TM006295	REV
U.S. ECCN: NSR	3 OF 3	03/12/21	-			-

## Performance Summary For RTU-4 and 5

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Part Number: 48FCSN09B3M5-6W1C0

ARI EER: ..... 11.20  
 IEER (Max Cooling at Normal Cooling Design Mode): ..... 15.0

#### Base Unit Dimensions

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

#### Operating Weight

Base Unit Weight: ..... 815 lb  
 Single Circuit, Two Stage Cooling with Humidi-MiZer: ..... 34 lb  
 RA Smoke Detector: ..... 7 lb  
 High Static (EcoBlue): ..... 30 lb  
 Al/Cu - Al/Cu - Louvered Hail Guards: ..... 17 lb  
 Enthalpy Ultra Low Leak Econo w/Baro Relief: ..... 57 lb  
 Unpowered Convenience Outlet: ..... 4 lb  
 Non-Fused Disconnect: ..... 15 lb  
  
 Total Operating Weight: ..... 979 lb

#### Unit

Unit Voltage-Phase-Hertz: ..... 208-3-60  
 Air Discharge: ..... Vertical  
 Fan Drive Type: ..... Vane Axial  
 Actual Airflow: ..... 3750 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: ..... 59.7 F  
 Evaporator Leaving Air WB: ..... 58.6 F  
 Evaporator Leaving Air Enthalpy: ..... 25.39 BTU/lb  
 Gross Cooling Capacity: ..... 101.99 MBH  
 Gross Sensible Capacity: ..... 82.36 MBH  
 Compressor Power Input: ..... 6.94 kW  
 Coil Bypass Factor: ..... 0.134

#### Heating Performance

Heating Airflow: ..... 3750 CFM  
 Entering Air Temp: ..... 70.0 F  
 Leaving Air Temp: ..... 95.4 F  
 Gas Heating Input Capacity: ..... 125.0 MBH  
 Gas Heating Output Capacity: ..... 103.0 MBH  
 Temperature Rise: ..... 25.4 F

#### Supply Fan

External Static Pressure: ..... 1.00 in wg  
 Options / Accessories Static Pressure  
     Humidi-MiZer Dehumidification System: ..... 0.18 in wg  
     Economizer: ..... 0.17 in wg  
 Total Application Static (ESP + Unit Opts/Acc.): ..... 1.35 in wg  
 Fan RPM: ..... 1912  
 Fan Power: ..... 2.50 BHP

NOTE: ..... Selected IFM RPM Range: 1083 - 2200

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

## Performance Summary For RTU-4 and 5

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Electrical Data

Voltage Range: .....	<b>187 - 253</b>
Compressor #1 RLA: .....	<b>13.7</b>
Compressor #1 LRA: .....	<b>123</b>
Compressor #2 RLA: .....	<b>13.7</b>
Compressor #2 LRA: .....	<b>123</b>
Indoor Fan Motor Type: .....	<b>HIGH</b>
Indoor Fan Motor FLA: .....	<b>7.5</b>
Combustion Fan Motor FLA (ea): .....	<b>0.48</b>
Power Supply MCA: .....	<b>42</b>
Power Supply MOCP (Fuse or HACR): .....	<b>50</b>
Disconnect Size FLA: .....	<b>44</b>
Disconnect Size LRA: .....	<b>265</b>
Electrical Convenience Outlet: .....	<b>None</b>
Outdoor Fan [Qty / FLA (ea)]: .....	<b>2 / 1.5</b>

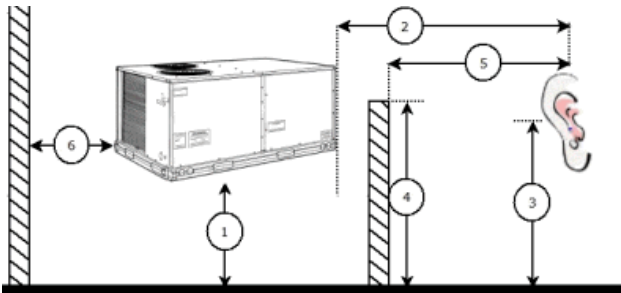
### Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

### Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	97.7	94.7	85.6
125 Hz	93.8	87.3	84.7
250 Hz	79.8	71.9	80.5
500 Hz	73.8	67.2	76.0
1000 Hz	69.9	65.1	72.4
2000 Hz	67.6	60.8	68.0
4000 Hz	71.1	61.2	62.8
8000 Hz	72.6	59.4	59.3
A-Weighted	81.6	75.1	79.0

### Advanced Acoustics



### Advanced Acoustics Parameters

1. Unit height above ground: .....	<b>30.0</b> ft
2. Horizontal distance from unit to receiver: .....	<b>50.0</b> ft
3. Receiver height above ground: .....	<b>5.7</b> ft
4. Height of obstruction: .....	<b>0.0</b> ft
5. Horizontal distance from obstruction to receiver: .....	<b>0.0</b> ft
6. Horizontal distance from unit to obstruction: .....	<b>0.0</b> ft

### Detailed Acoustics Information

## Performance Summary For RTU-4 and 5

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

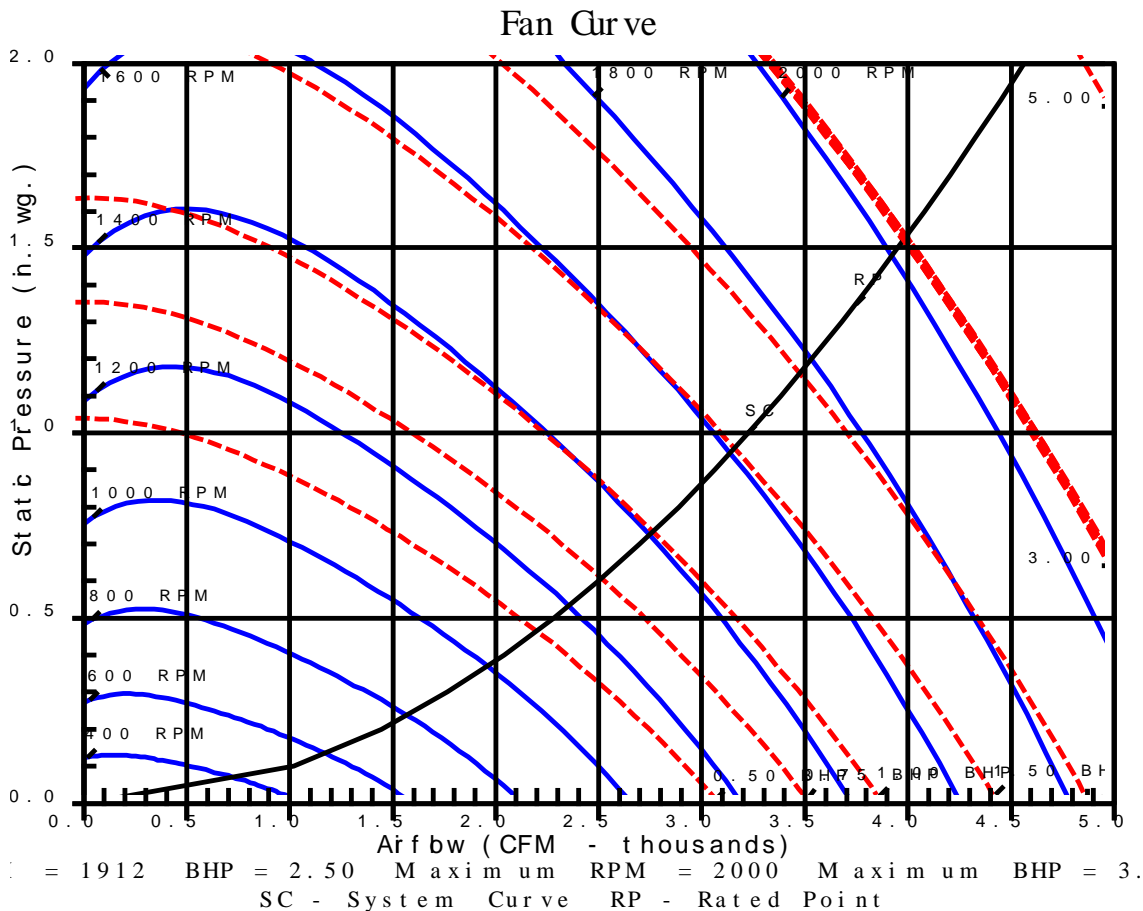
08/26/2022  
 03:09PM

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3	89.2 Lw
B	59.4	68.6	71.9	72.8	72.4	69.2	63.8	58.2	78.5 LwA
C	53.2	52.3	48.1	43.6	40.0	35.6	30.4	26.9	56.8 Lp
D	27.0	36.2	39.5	40.4	40.0	36.8	31.4	25.8	46.1 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

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.



**RTU-6**

**Tag Cover Sheet  
Unit Report  
Certified Drawing  
Performance Report**

## Unit Report For RTU-6

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Unit Parameters

Unit Model:..... **48FCSN16B3M5-6W1C0**  
 Unit Size: ..... **16 (15 Tons)**  
 Volts-Phase-Hertz: ..... **208-3-60**  
 Heating Type:..... **Gas**  
 Duct Cfg:..... **Vertical Supply / Vertical Return**  
 Stainless Steel, Low Heat  
 Single Circuit, Two Stage Cooling with Humidi-MiZer

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

Unit Length:..... **9' 7.875"**  
 Unit Width: ..... **5' 6.375"**  
 Unit Height: ..... **4' 9.375"**  
**\*\*\* Total Operating Weight: ..... 1537 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

Gas Line Size:..... **3/4**  
 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**

**Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.**

### Unit Configuration

RA Smoke Detector  
 High Static (**EcoBlue**)  
 Al/Cu - Al/Cu - Louvered Hail Guards  
 Electromechanical Controls w/W7220 Econo Controller  
 Enthalpy Ultra Low Leak Econo w/Baro Relief  
 Unpowered Convenience Outlet  
 Non-Fused Disconnect  
 Standard Packaging  
 Humidi-MiZer™ Adaptive Dehumidification System

### Warranty Information

1-Year parts(std.)  
 5-Year compressor parts(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
48FCSN16B3M5-6W1C0	Rooftop Unit	1
	Base Unit	
	RA Smoke Detector	
	High Static (EcoBlue)	
	Al/Cu - Al/Cu - Louvered Hail Guards	
	Unpowered Convenience Outlet	
	Non-Fused Disconnect	
	Humidi-MiZer™ Adaptive Dehumidification System	
	Ultra Low leak Enty Econo X with baro relief, W7220 control. Meets Calif. Title 24 FDD & Leak Rates	
<b>Field Installed Accessories</b>		
--HL--38MG-029	Humidistat	1
33CS2PP2S-03	Edge® Pro splittable 7-Day Programmable/Non-Prog	1
CRTIMEGD001A00	Time Guard II	1

# Certified Drawing for RTU-6

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

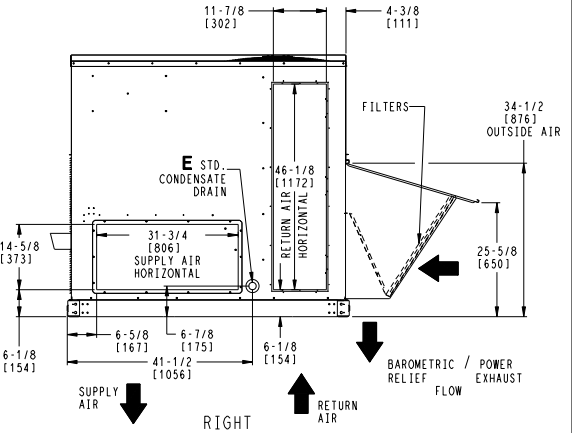
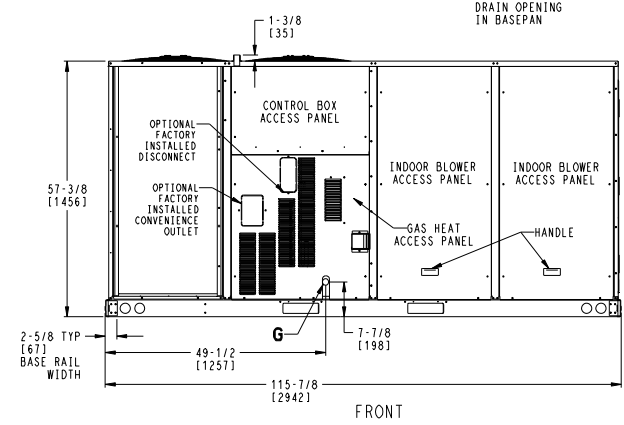
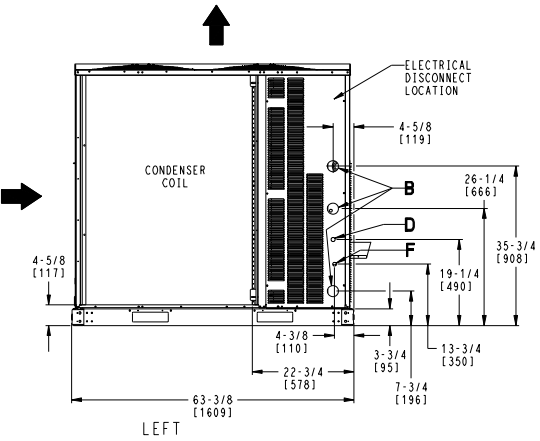
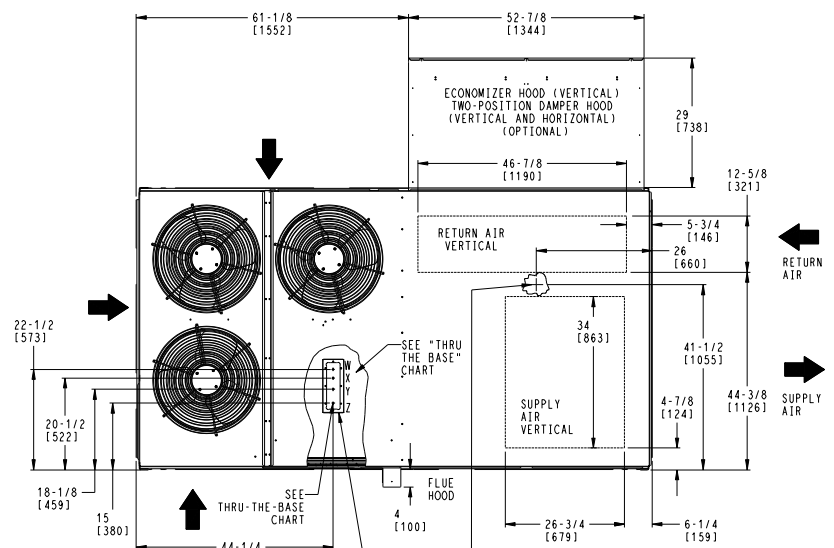
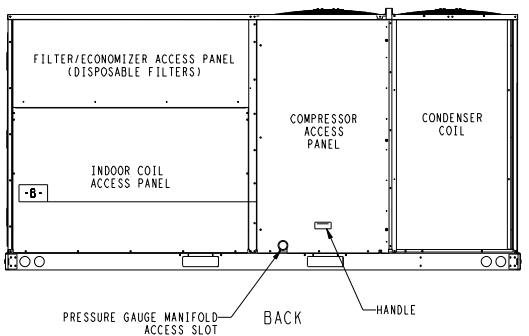
08/26/2022  
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- NOTES:
1. DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE IN MILLIMETERS.
  2. CENTER OF GRAVITY
  3. DIRECTION OF AIR FLOW

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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
G	3/4"-14 NPT GAS CONNECTION

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTMPW005A00,006A00,007A00				
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	Z 3/4" PIPE	GAS	1 3/4"	[44.5]
	W 1/2"	ACC.	7/8"	[22.2]
	X 1/2"	24V	7/8"	[22.2]
007	Y 1 1/2"	POWER	2"	[50.8]
	Z 3/4" PIPE	GAS	1 3/4"	[44.5]
	W 1/2"	ACC.	7/8"	[22.2]
	X 1/2"	24V	7/8"	[22.2]
	Y 2"	POWER	2 1/2"	[63.5]
	Z 3/4" PIPE	GAS	1 3/4"	[44.5]
FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR X & Y ARE PROVIDED AS SPECIFIED ON "006".				



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 16 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50TM00205	REV
U.S. ECCN:NSR	1 OF 2	06/10/21	-			-

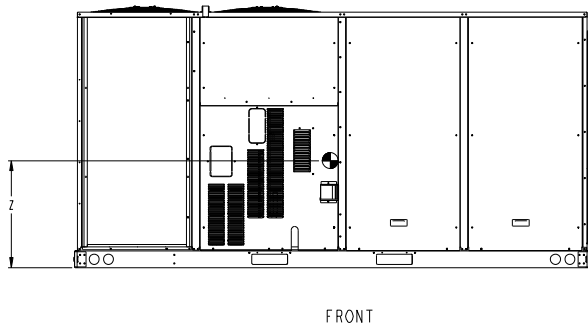
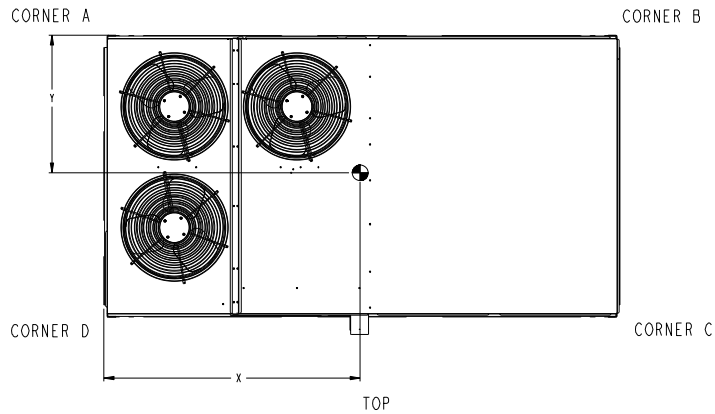
# Certified Drawing for RTU-6

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

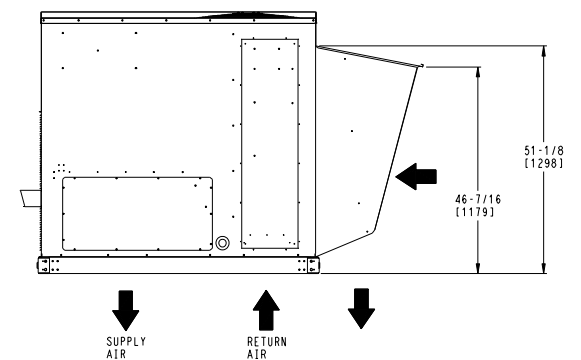
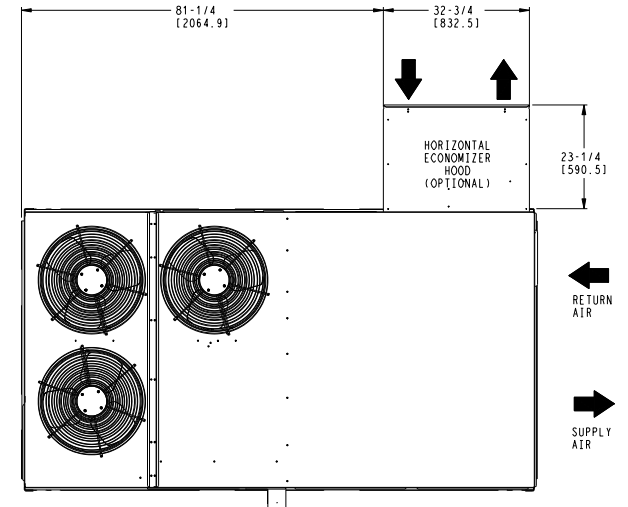
08/26/2022  
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UNIT	STD UNIT WEIGHT		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
48FC-M16	1480	639	373	169	341	155	332	150	362	164	55 3/8 [1407]	31 1/4 [794]	21 1/8 [537]

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



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**HORIZONTAL ECONOMIZER**

ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 2 OF 2	DATE 06/10/21	SUPERCEDES -	48FC 16 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50TM00205	REV -
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## Performance Summary For RTU-6

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Part Number: 48FCSN16B3M5-6W1C0

ARI EER: ..... **10.80**  
 IEER (Max Cooling at Normal Cooling Design Mode): ..... **14.5**

#### Base Unit Dimensions

Unit Length: ..... **115.9** in  
 Unit Width: ..... **66.4** in  
 Unit Height: ..... **57.4** in

#### Operating Weight

Base Unit Weight: ..... **1325** lb  
 Single Circuit, Two Stage Cooling with Humidi-MiZer: ..... **55** lb  
 RA Smoke Detector: ..... **7** lb  
 Al/Cu - Al/Cu - Louvered Hail Guards: ..... **44** lb  
 Enthalpy Ultra Low Leak Econo w/Baro Relief: ..... **87** lb  
 Unpowered Convenience Outlet: ..... **4** lb  
 Non-Fused Disconnect: ..... **15** lb  
  
 Total Operating Weight: ..... **1537** lb

#### Unit

Unit Voltage-Phase-Hertz: .....	<b>208-3-60</b>
Air Discharge: .....	<b>Vertical</b>
Fan Drive Type: .....	<b>Vane Axial</b>
Actual Airflow: .....	<b>5870</b> CFM
Site Altitude: .....	<b>0</b> 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: ..... **59.0** F  
 Evaporator Leaving Air WB: ..... **57.3** F  
 Evaporator Leaving Air Enthalpy: ..... **24.61** BTU/lb  
 Gross Cooling Capacity: ..... **180.49** MBH  
 Gross Sensible Capacity: ..... **132.92** MBH  
 Compressor Power Input: ..... **13.48** kW  
 Coil Bypass Factor: ..... **0.107**

#### Heating Performance

Heating Airflow: ..... **5870** CFM  
 Entering Air Temp: ..... **70.0** F  
 Leaving Air Temp: ..... **93.0** F  
 Gas Heating Input Capacity: ..... **144.0 / 180.0** MBH  
 Gas Heating Output Capacity: ..... **118.0 / 146.0** MBH  
 Temperature Rise: ..... **23.0** F

#### Supply Fan

External Static Pressure: .....	<b>1.00</b> in wg
Options / Accessories Static Pressure	
Humidi-MiZer Dehumidification System: .....	<b>0.36</b> in wg
Economizer: .....	<b>0.46</b> in wg
Total Application Static (ESP + Unit Opts/Acc.): .....	<b>1.82</b> in wg
Fan RPM: .....	<b>1980</b>
Fan Power: .....	<b>3.99</b> BHP

NOTE: ..... **Selected IFM RPM Range: 250 - 2200**

**Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.**

## Performance Summary For RTU-6

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Electrical Data

Voltage Range: .....	<b>187 - 253</b>
Compressor #1 RLA: .....	<b>28.2</b>
Compressor #1 LRA: .....	<b>239</b>
Compressor #2 RLA: .....	<b>19.6</b>
Compressor #2 LRA: .....	<b>136</b>
Indoor Fan Motor Type: .....	<b>HIGH</b>
Indoor Fan Motor FLA: .....	<b>12.6</b>
Combustion Fan Motor FLA (ea): .....	<b>0.48</b>
Power Supply MCA: .....	<b>72</b>
Power Supply MOCP (Fuse or HACR): .....	<b>80</b>
Disconnect Size FLA: .....	<b>75</b>
Disconnect Size LRA: .....	<b>405</b>
Electrical Convenience Outlet: .....	<b>None</b>
Outdoor Fan [Qty / FLA (ea)]: .....	<b>3 / 1.5</b>

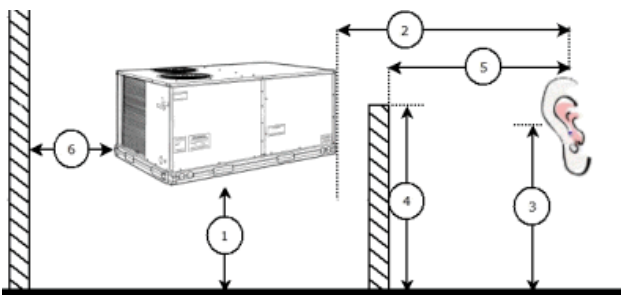
### Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

### Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	96.7	93.4	87.0
125 Hz	97.5	88.3	85.2
250 Hz	83.0	68.7	84.6
500 Hz	79.1	68.4	84.9
1000 Hz	74.3	67.2	82.2
2000 Hz	70.0	64.0	78.4
4000 Hz	76.5	65.4	75.3
8000 Hz	76.0	61.7	72.9
A-Weighted	85.3	76.0	87.0

### Advanced Acoustics



### Advanced Acoustics Parameters

1. Unit height above ground: .....	<b>30.0</b> ft
2. Horizontal distance from unit to receiver: .....	<b>50.0</b> ft
3. Receiver height above ground: .....	<b>5.7</b> ft
4. Height of obstruction: .....	<b>0.0</b> ft
5. Horizontal distance from obstruction to receiver: .....	<b>0.0</b> ft
6. Horizontal distance from unit to obstruction: .....	<b>0.0</b> ft

### Detailed Acoustics Information

## Performance Summary For RTU-6

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

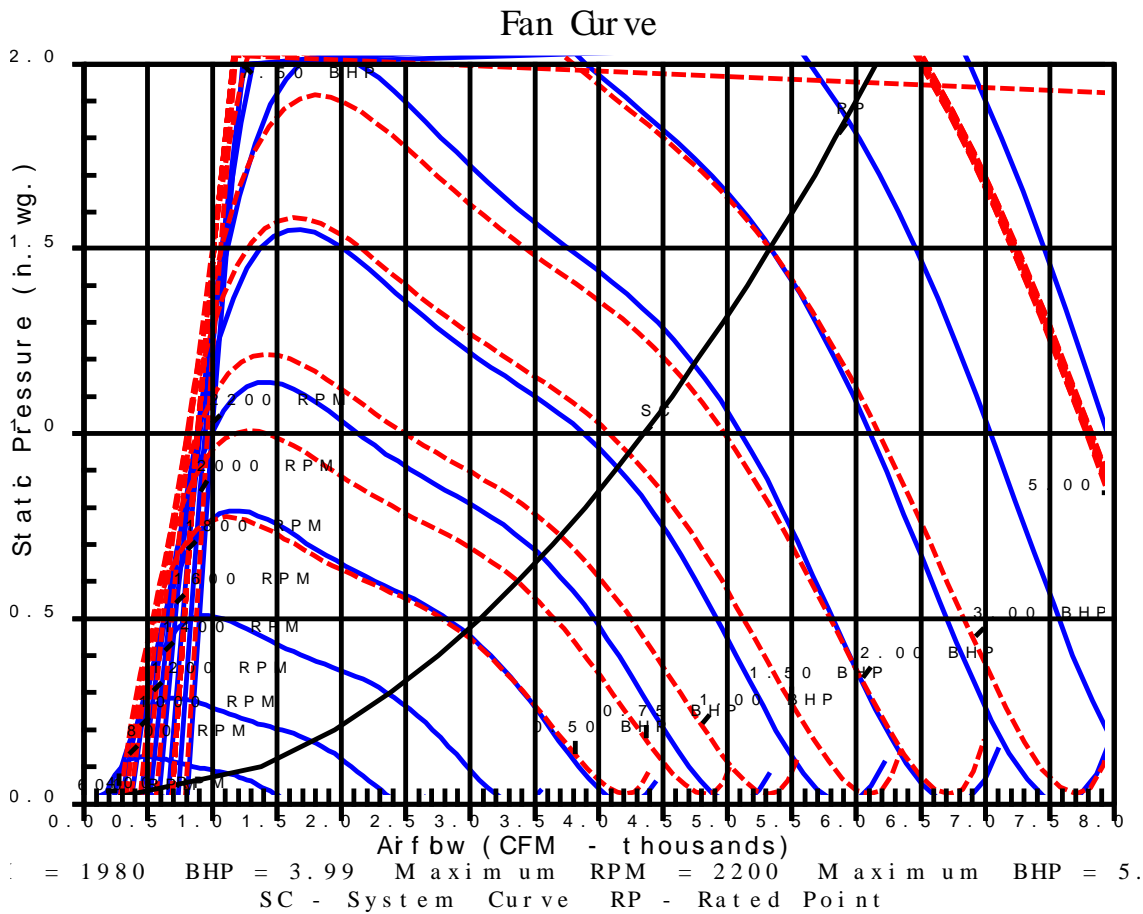
08/26/2022  
 03:09PM

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.



**RTU-7**

**Tag Cover Sheet  
Unit Report  
Certified Drawing  
Performance Report**

## Unit Report For RTU-7

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Unit Parameters

Unit Model:..... **48FCTN07B3M5-6W1C0**  
 Unit Size: ..... **07 (6 Tons)**  
 Volts-Phase-Hertz: ..... **208-3-60**  
 Heating Type:..... **Gas**  
 Duct Cfg:..... **Vertical Supply / Vertical Return**  
 Stainless Steel, High Heat  
 Single Circuit, Two Stage Cooling with Humidi-MiZer (07 only)

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

Unit Length:..... **6' 2.375"**  
 Unit Width: ..... **3' 10.625"**  
 Unit Height: ..... **3' 5.375"**  
**\*\*\* Total Operating Weight: ..... 733 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

Gas Line Size:..... **1/2**  
 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**

**Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.**

### Unit Configuration

RA Smoke Detector  
**Direct Drive - EcoBlue** - High Static  
 Al/Cu - Al/Cu - Louvered Hail Guards  
 Electromechanical Controls w/W7220 Econo Controller  
 Enthalpy Ultra Low Leak Econo w/Baro Relief  
 Unpowered Convenience Outlet  
 Non-Fused Disconnect  
 Standard Packaging  
 Humidi-MiZer™ Adaptive Dehumidification System

### Warranty Information

1-Year parts(std.)  
 5-Year compressor parts(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
48FCTN07B3M5-6W1C0	Rooftop Unit	1
	Base Unit	
	RA Smoke Detector	
	Direct Drive - EcoBlue - High Static	
	Al/Cu - Al/Cu - Louvered Hail Guards	
	Unpowered Convenience Outlet	
	Non-Fused Disconnect	
	Humidi-MiZer™ Adaptive Dehumidification System	
	Ultra Low leak Enty Econo X with baro relief, W7220 control. Meets Calif. Title 24 FDD & Leak Rates	
<b>Field Installed Accessories</b>		
33CS2PP2S-03	Thermostat	1
--HL--38MG-029	Humidistat	1
CRTIMEGD001A00	Time Guard II	1

# Certified Drawing for RTU-7

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

**NOTES:**

1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW
4. ALL VIEW DRAWN USING 3RD ANGLE

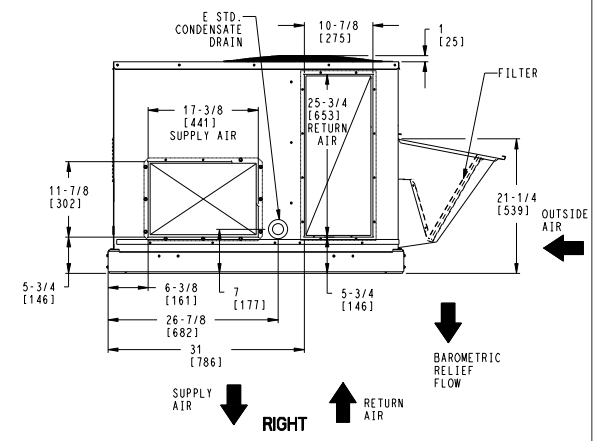
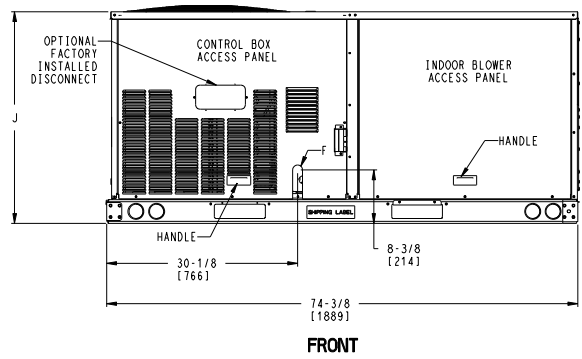
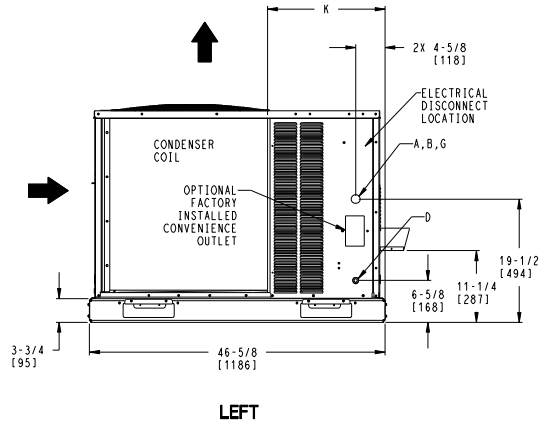
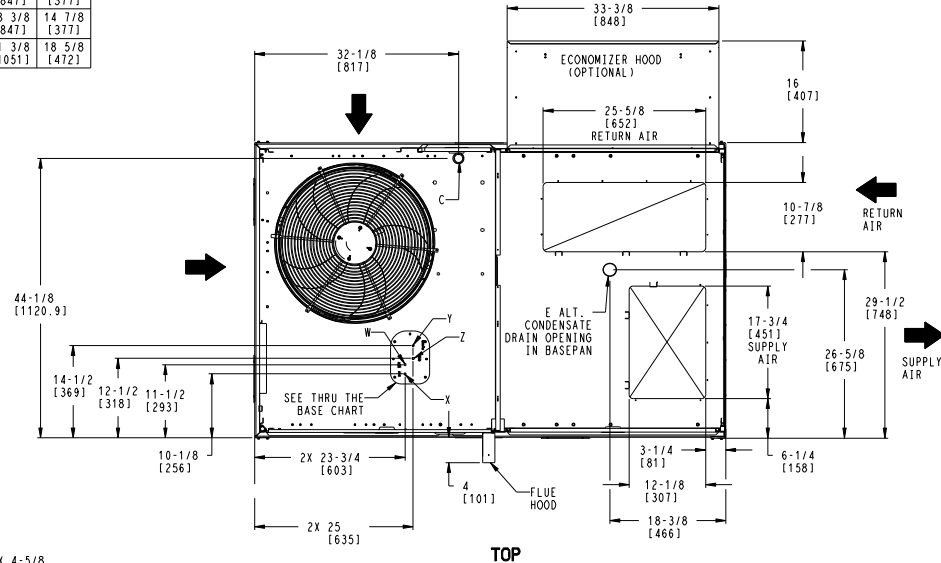
UNIT	J	K
48FC**04	33 3/8 [847]	18 5/8 [472]
48FC**05	33 3/8 [847]	14 7/8 [377]
48FC**06	33 3/8 [847]	14 7/8 [377]
48FC**07	41 3/8 [1051]	18 5/8 [472]

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CONNECTION SIZES	
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2" [50] 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
F	1/2"-14 NPT GAS CONNECTION
G	2 1/2" [64] DIA POWER SUPPLY KNOCK-OUT

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTWR008A00, 009A00			
	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
W	1/2"	115V	7/8" [22.2]
X	1/2"	24V	7/8" [22.2]
Y	3/4"	POWER	1-1/8" [28.6]
Z*	(009A00) 1/2" FPT	GAS	1-1/8" [28.6]

FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED  
 \* (008A00) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING.



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 04-07 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003093	REV
U.S. ECCN: NSR	1 OF 3	09/07/18	06/22/18			A

# Certified Drawing for RTU-7

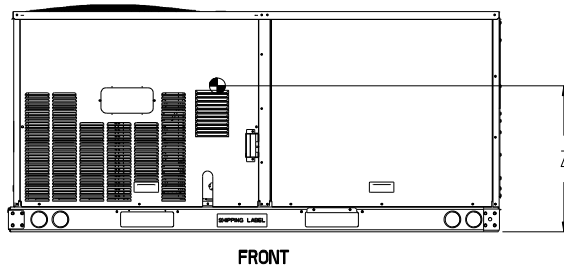
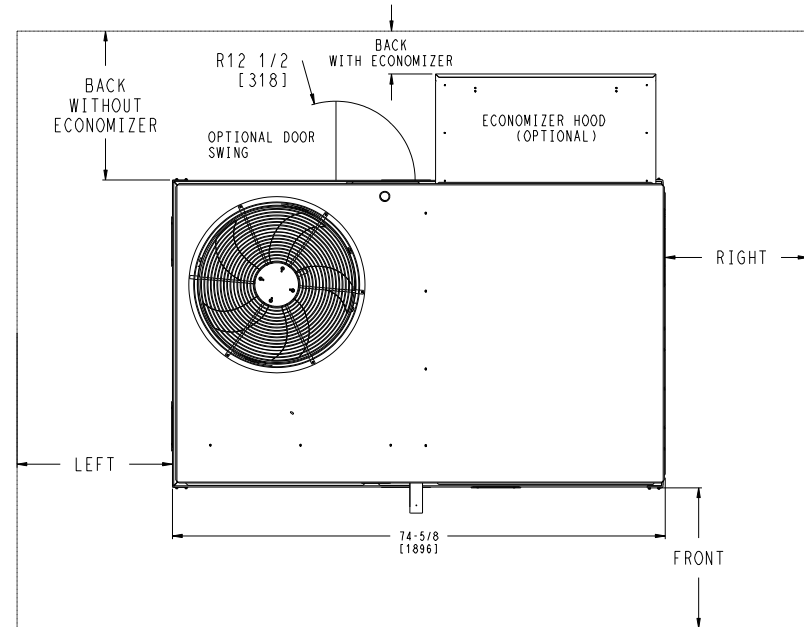
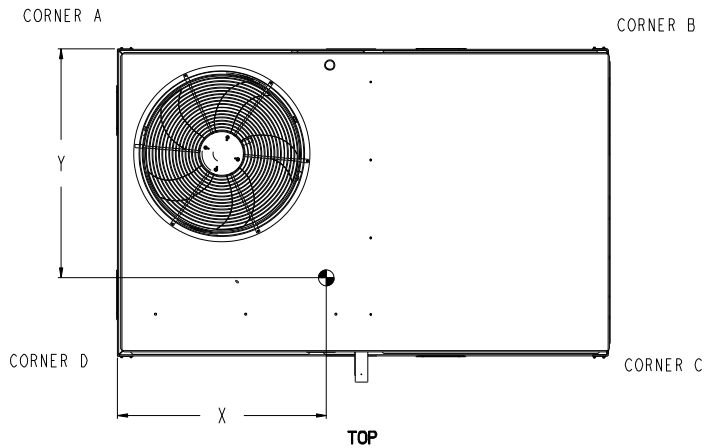
Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

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	
48FC**04	482	219	113	51	116	53	128	58	125	57	37 5/8 [956]	24 9/16 [624]	18 1/4 [464]	
48FC**05	543	246	138	63	133	60	133	60	138	63	36 1/2 [927]	23 3/8 [594]	18 [457]	
48FC**06	556	252	142	64	136	62	136	62	142	64	36 1/2 [927]	23 3/8 [594]	18 [457]	
48FC**07	607	275	162	73	152	69	141	64	151	68	36 [914]	22 1/2 [572]	19 3/8 [492]	

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

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NOTES:  
 1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

SURFACE	CLEARANCE		OPERATING CLEARANCE
	SERVICE WITH: CONDUCTIVE BARRIER	SERVICE WITH: NONCONDUCTIVE BARRIER	
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

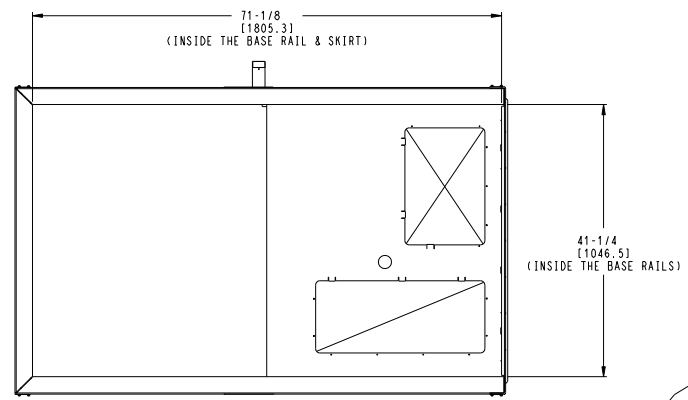
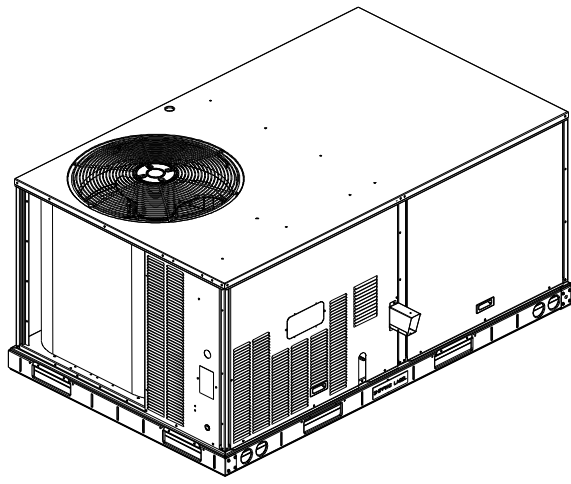
ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 2 OF 3	DATE 09/07/18	SUPERCEDES 06/22/18	48FC 04-07 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003093	REV A
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# Certified Drawing for RTU-7

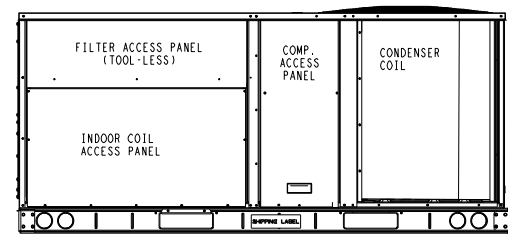
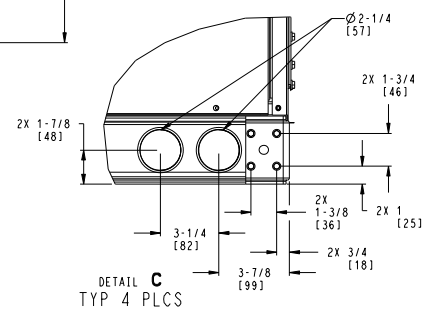
Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

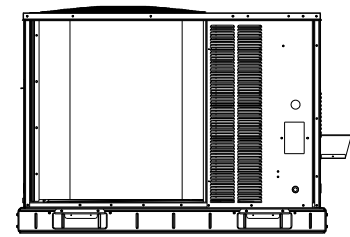
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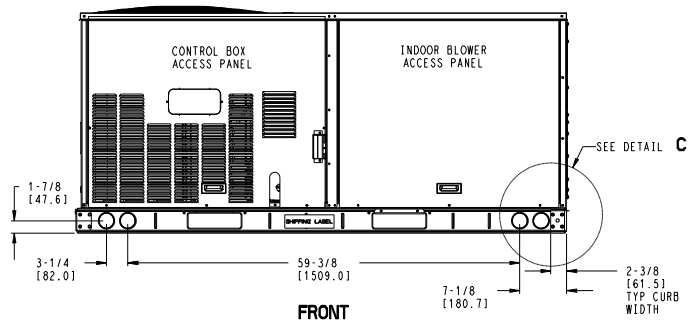
INSIDE BASERAIL DIMENSIONS  
**BOTTOM**



**BACK**



**LEFT**



**FRONT**

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 04-07 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003093	REV
U.S. ECCN:NSR	3 OF 3	09/07/18	06/22/18			A

## Performance Summary For RTU-7

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

### Part Number: 48FCTN07B3M5-6W1C0

ARI EER: ..... 11.00  
 IEER (Max Cooling at Normal Cooling Design Mode): ..... 15.0

#### Base Unit Dimensions

Unit Length: ..... 74.4 in  
 Unit Width: ..... 46.6 in  
 Unit Height: ..... 41.4 in

#### Operating Weight

Base Unit Weight: ..... 562 lb  
 Stainless Steel, High Heat: ..... 63 lb  
 Single Circuit, Two Stage Cooling with Humidi-MiZer (07 only): ..... 33 lb  
 RA Smoke Detector: ..... 7 lb  
 Direct Drive - EcoBlue - High Static: ..... 5 lb  
 Al/Cu - Al/Cu - Louvered Hail Guards: ..... 17 lb  
 Enthalpy Ultra Low Leak Econo w/Baro Relief: ..... 37 lb  
 Unpowered Convenience Outlet: ..... 4 lb  
 Non-Fused Disconnect: ..... 5 lb  
  
 Total Operating Weight: ..... 733 lb

#### Unit

Unit Voltage-Phase-Hertz: ..... 208-3-60  
 Air Discharge: ..... Vertical  
 Fan Drive Type: ..... Vane Axial  
 Actual Airflow: ..... 2661 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: ..... 59.6 F  
 Evaporator Leaving Air WB: ..... 58.5 F  
 Evaporator Leaving Air Enthalpy: ..... 25.33 BTU/lb  
 Gross Cooling Capacity: ..... 73.18 MBH  
 Gross Sensible Capacity: ..... 58.56 MBH  
 Compressor Power Input: ..... 5.30 kW  
 Coil Bypass Factor: ..... 0.123

#### Heating Performance

Heating Airflow: ..... 2661 CFM  
 Entering Air Temp: ..... 70.0 F  
 Leaving Air Temp: ..... 111.8 F  
 Gas Heating Input Capacity: ..... 120.0 / 150.0 MBH  
 Gas Heating Output Capacity: ..... 96.0 / 120.0 MBH  
 Temperature Rise: ..... 41.8 F  
 Thermal Efficiency (%): ..... 80.0

#### Supply Fan

External Static Pressure: ..... 1.00 in wg  
 Options / Accessories Static Pressure  
     Humidi-MiZer Dehumidification System: ..... 0.18 in wg  
     Economizer: ..... 0.20 in wg  
 Total Application Static (ESP + Unit Opts/Acc.): ..... 1.39 in wg  
 Fan RPM: ..... 2831  
 Fan Power: ..... 2.43 BHP  
 NOTE: ..... Selected IFM RPM Range: 1596 - 2836

## Performance Summary For RTU-7

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

08/26/2022  
 03:09PM

**Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.**

### Electrical Data

Voltage Range: .....	<b>187 - 253</b>
Compressor #1 RLA: .....	<b>17.5</b>
Compressor #1 LRA: .....	<b>136</b>
Indoor Fan Motor Type: .....	<b>HIGH</b>
Indoor Fan Motor FLA: .....	<b>6.4</b>
Combustion Fan Motor FLA (ea): .....	<b>0.48</b>
Power Supply MCA: .....	<b>30</b>
Power Supply MOCP (Fuse or HACR): .....	<b>45</b>
Disconnect Size FLA: .....	<b>29</b>
Disconnect Size LRA: .....	<b>149</b>
Electrical Convenience Outlet: .....	<b>None</b>
Outdoor Fan [Qty / FLA (ea)]: .....	<b>1 / 1.5</b>

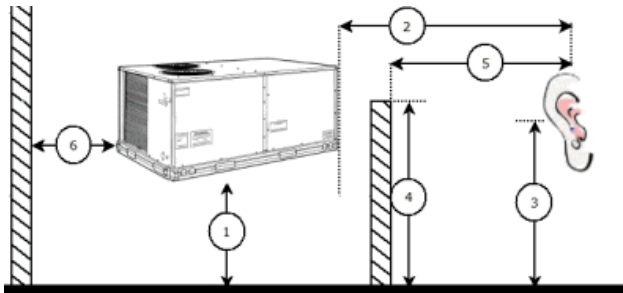
**Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage**

### Acoustics

Sound Power Levels, db re 10E-12 Watts

	<b>Discharge</b>	<b>Inlet</b>	<b>Outdoor</b>
63 Hz	97.2	93.1	85.6
125 Hz	89.8	86.6	84.7
250 Hz	84.3	75.6	80.5
500 Hz	81.2	74.7	76.0
1000 Hz	79.3	75.4	72.4
2000 Hz	77.3	67.3	68.0
4000 Hz	70.9	59.7	62.8
8000 Hz	64.4	53.6	59.3
A-Weighted	84.9	78.9	79.0

### Advanced Acoustics



#### Advanced Accoustics Parameters

1. Unit height above ground: .....	<b>30.0</b> ft
2. Horizontal distance from unit to receiver: .....	<b>50.0</b> ft
3. Receiver height above ground: .....	<b>5.7</b> ft
4. Height of obstruction: .....	<b>0.0</b> ft
5. Horizontal distance from obstruction to receiver: .....	<b>0.0</b> ft
6. Horizontal distance from unit to obstruction: .....	<b>0.0</b> ft

### Detailed Acoustics Information

## Performance Summary For RTU-7

Project: Pet Suites of America - Cypress - 7510 Fry Rd  
 Prepared By:

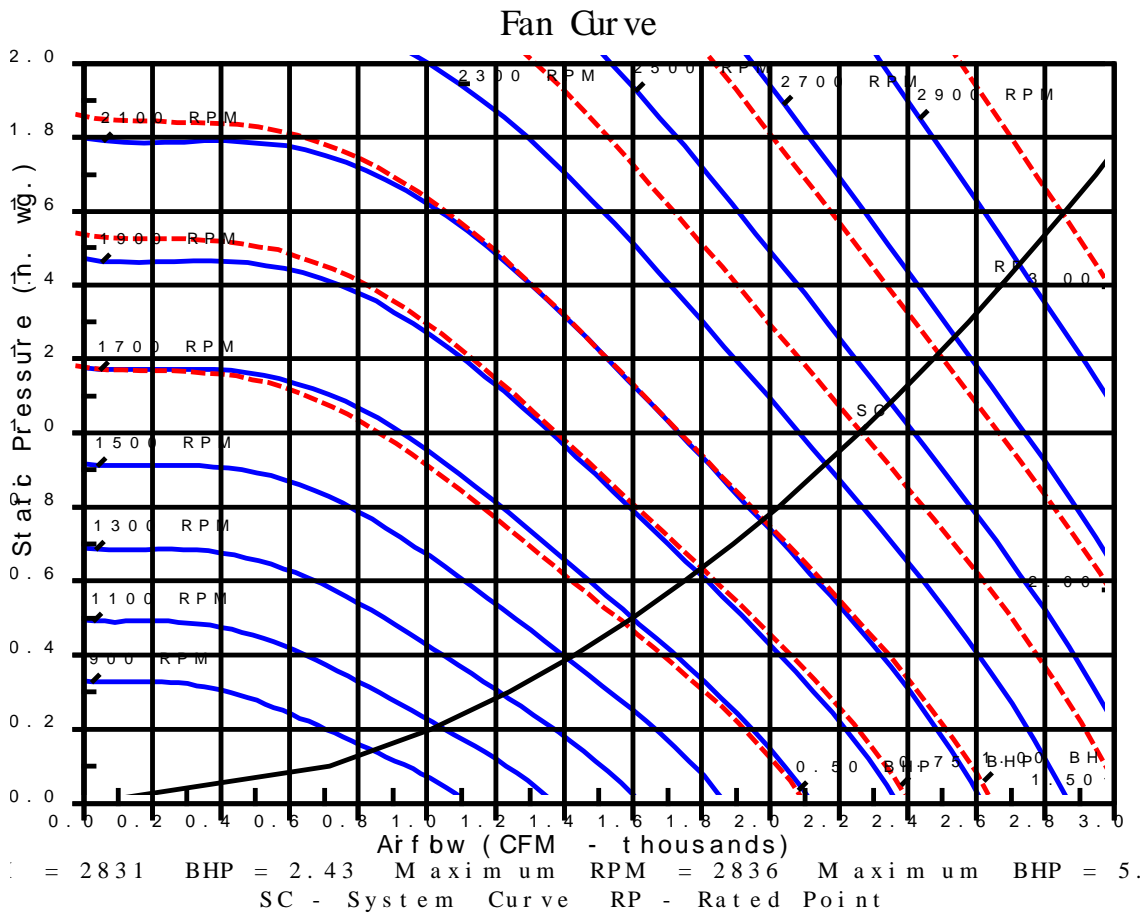
08/26/2022  
 03:09PM

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3	89.2 Lw
B	59.4	68.6	71.9	72.8	72.4	69.2	63.8	58.2	78.5 LwA
C	53.2	52.3	48.1	43.6	40.0	35.6	30.4	26.9	56.8 Lp
D	27.0	36.2	39.5	40.4	40.0	36.8	31.4	25.8	46.1 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

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.



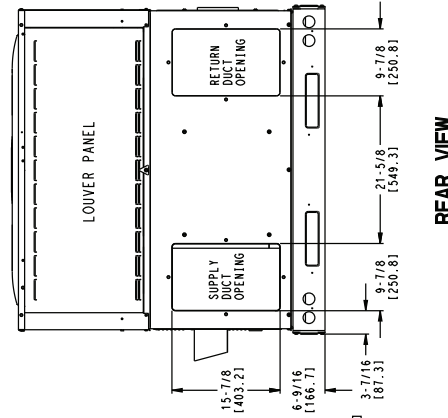
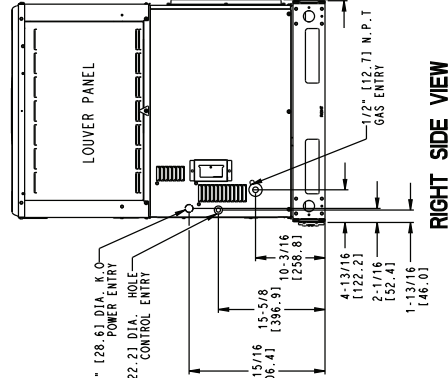
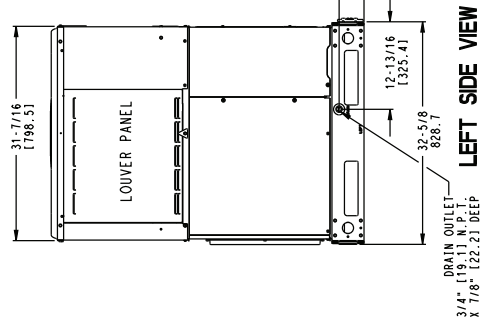
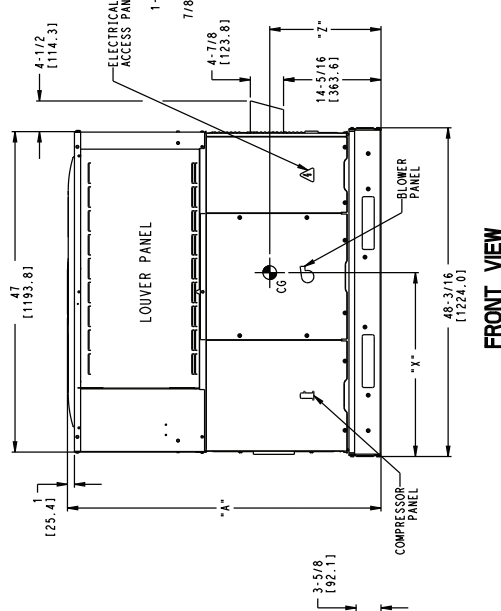
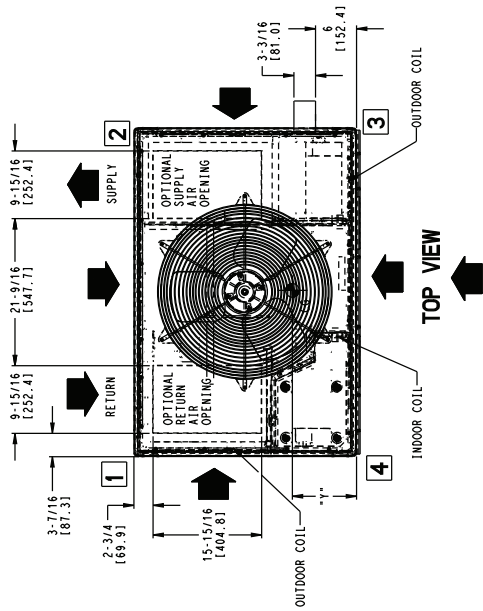
# UNIT DIMENSIONS - 48VG 24-30

48VG

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT. LB	UNIT HEIGHT IN/MM	CENTER OF GRAVITY IN/MM		
				X	Y	Z
48VG(-/N)E24(040/060)30*	208/230-1-60	344	44-1/8 [1121]	22-13/16 [579.4]	15-5/16 [388.9]	15-13/16 [401.6]
48VG(-/N)E30(040/060)30*	208/230-1-60	351	44-1/8 [1121]	22-13/16 [579.4]	15-5/16 [388.9]	16-5/8 [422.3]
48VG(-/N)A30(040/060)50*	208/230-3-60	351	44-1/8 [1121]	22-13/16 [579.4]	15-5/16 [388.9]	16-5/8 [422.3]

UNIT	CORNER WEIGHT LB/KG			
	"1"	"2"	"3"	"4"
48VG(-/N)E24(040/060)30*	208/230 87.9	39.9	77.6	35.2
48VG(-/N)E30(040/060)30*	208/230 89.7	40.7	79.0	35.8
48VG(-/N)A30(040/060)50*	208/230 89.7	40.7	79.0	35.8

NOTE: 1. ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER.  
2. \* - INDICATES ALL TOP CODES FOR THE MODELS LISTED.



344823-4

**REQUIRED CLEARANCES TO COMBUSTIBLE MATL.**

TOP OF UNIT.....14 [355.6]  
 DUCT SIDE OF UNIT.....2 [50.8]  
 SIDE OPPOSITE DUCTS.....14 [355.6]  
 BOTTOM OF UNIT.....1/2 [12.7]  
 FLOOR PANEL.....36 [914.4]

**NEC REQUIRED CLEARANCES.**

BETWEEN UNITS, POWER ENTRY SIDE.....42 [1066.8]  
 UNIT AND UNGROUND SURFACES, POWER ENTRY SIDE.....42 [1066.8]  
 UNIT AND UNGROUND SURFACES, OTHER SIDE.....36 [914.4]  
 GROUNDED SURFACES, POWER ENTRY SIDE.....42 [1066.8]

**REQUIRED CLEARANCE FOR OPERATION AND SERVICING**

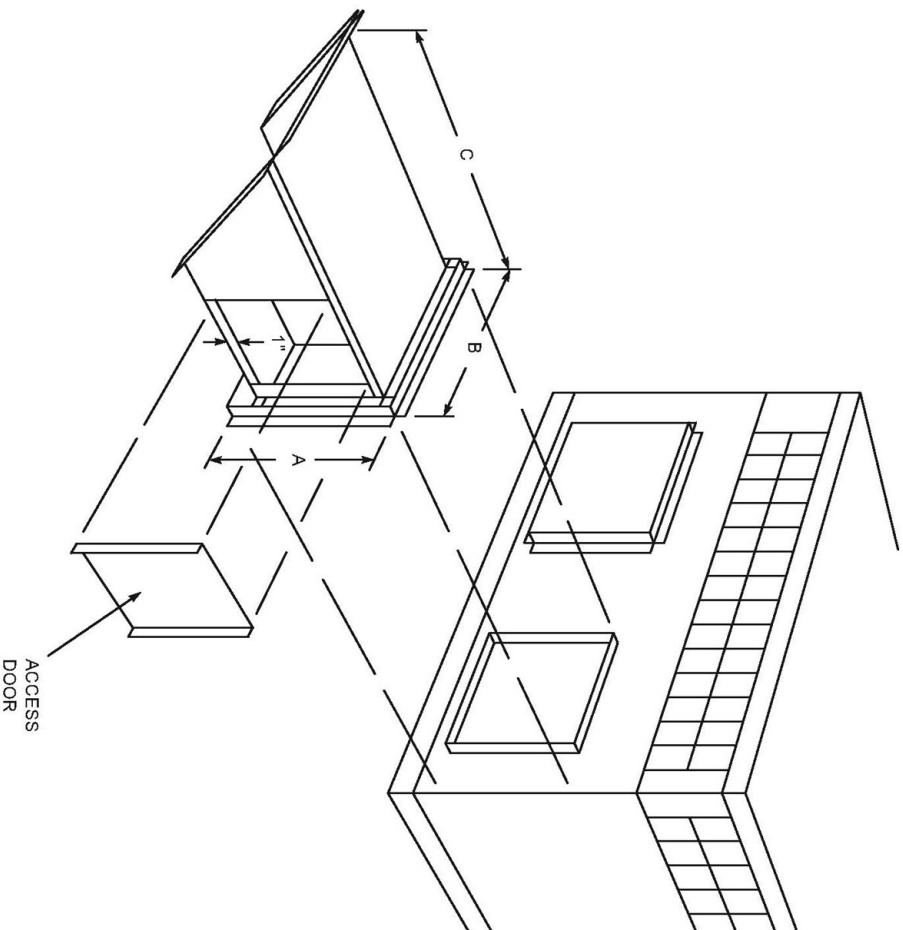
EVAP. COIL ACCESS SIDE.....36 [914.4]  
 POWER ENTRY SIDE.....42 [1066.8]  
 (EXCEPT FOR NEC REQUIREMENTS)  
 UNIT TOP.....48 [1219.2]  
 SIDE OPPOSITE DUCTS.....36 [914.4]  
 DUCT PANEL.....12 [304.8]

\*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 12 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED.

DIMENSIONS IN ( ) ARE IN MM

**0 - 25% MOTORIZED OUTSIDE AIR HOOD WITH SUPPLY AIR DUCT COVER FOR CARRIER/BDP/ICP  
48/50ES/EZ/VT/ML-A24-60 & 704D42-60/607C36-60 & PAD360/PHD348 & PGD342-360/460**

**1**



- 0 - 25% MOTORIZED O/A HOOD FEATURES:**
1. 24 V. 2 POSITION SPRING RETURN MOTOR
  2. PARALLEL BLADE DAMPERS WITH BRONZE BUSHINGS
  3. GASKETING
  4. COLOR COORDINATED PAINT FINISH

- OPTIONAL:**
1. LOW LEAK DAMPERS
  2. 115 V. MOTOR
  3. LINE VOLTAGE TO 24 V. TRANSFORMER

**DIMENSIONAL DATA**

CARRIER/BDP/ICP MODEL	PLENUMS INC. MODEL	A	B	C
48/50ES/EZ/VT/ML-A24-60 & 704D42-60/607C36-60 PAD360/PHD348 & PGD342-360/460	COALE560 - 25A	16"	18"	20"



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**2 POS MOTORIZED**