

Unit Report For 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM

Unit Parameters

Unit Model:.....**48FCEA06A3A5-0A0A0**
 Unit Size:.....**06 (5 Tons)**
 Volts-Phase-Hertz:.....**208-3-60**
 Heating Type:.....**Gas**
 Duct Cfg:.....**Vertical Supply / Vertical Return**
 Medium Heat
 Standard One Stage Cooling Models

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

Unit Length:.....**6' 2.375"**
 Unit Width:.....**3' 10.625"**
 Unit Height:.....**2' 9.375"**
 *** Total Operating Weight:.....**694 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

Return Air Filter Type:.....**Throwaway**
 Return Air Filter Quantity:.....**2**
 Return Air Filter Size:.....**16 x 25 x 2**

Unit Configuration

Direct Drive - EcoBlue - High Static
 Al/Cu - Al/Cu
 Base Electromechanical Controls
 Standard Packaging

Warranty Information

1-Year parts(std.)
 5-Year compressor parts(std.)
 10-Year heat exchanger - Aluminized(std.)

No optional warranties were selected.

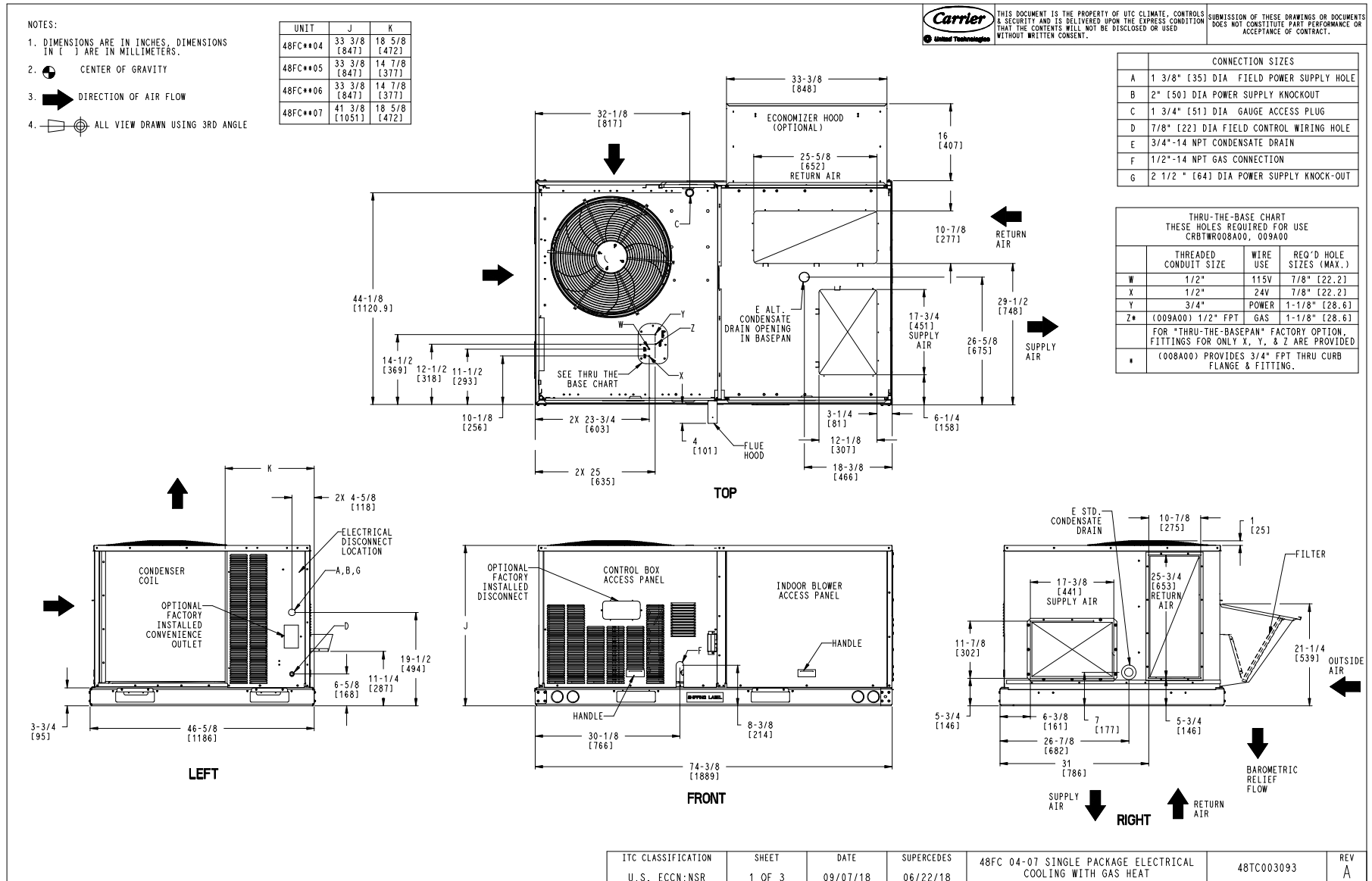
Ordering Information

Part Number	Description	Quantity
48FCEA06A3A5-0A0A0	Rooftop Unit	1
Accessories		
CRRFCURB001A01	14-inch Tall Roof Curb	1

Certified Drawing for 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM



Certified Drawing for 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM

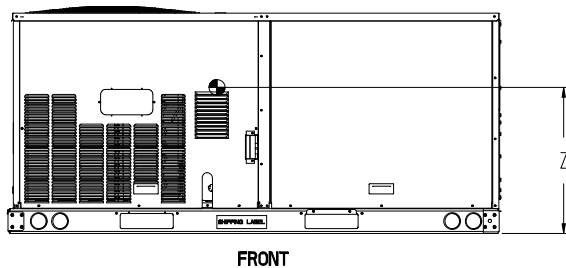
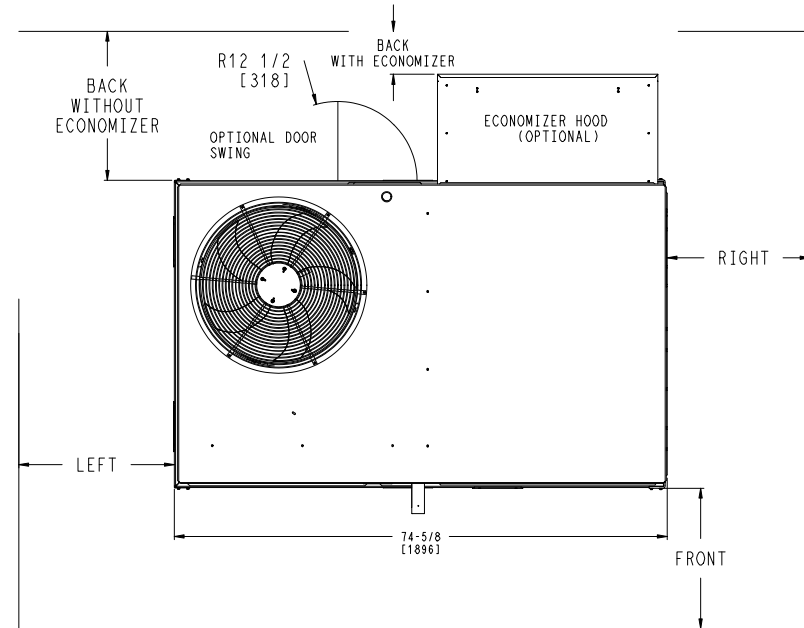
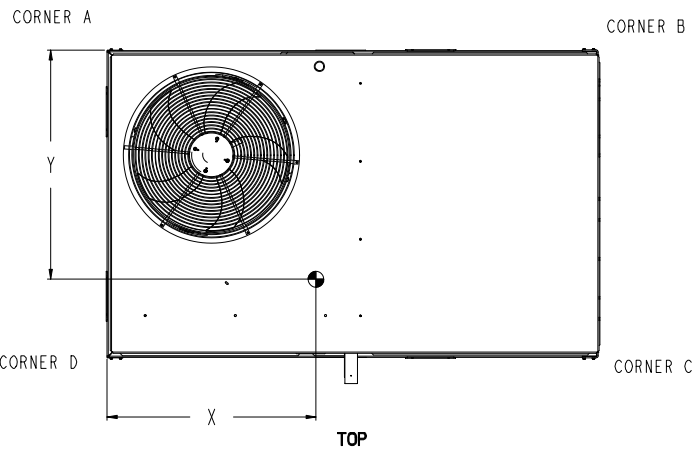
UNIT	STD. UNIT WEIGHT #		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.			HEIGHT
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z	
48FC**04	482	219	113	51	116	53	128	58	125	57	37 5/8 [956]	24 9/16 [624]	18 1/4 [464]	
48FC**05	543	246	138	63	133	60	133	60	138	63	36 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.



THIS DOCUMENT IS THE PROPERTY OF UTC CLIMATE, CONTROLS & SECURITY AND IS DELIVERED UPON THE EXPRESS CONDITION THAT THE CONTENTS WILL NOT BE DISCLOSED OR USED WITHOUT WRITTEN CONSENT.

SUBMISSION OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT.



NOTES:

- 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]

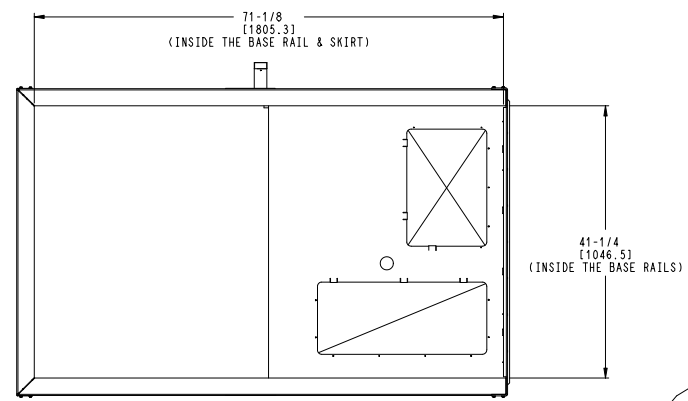
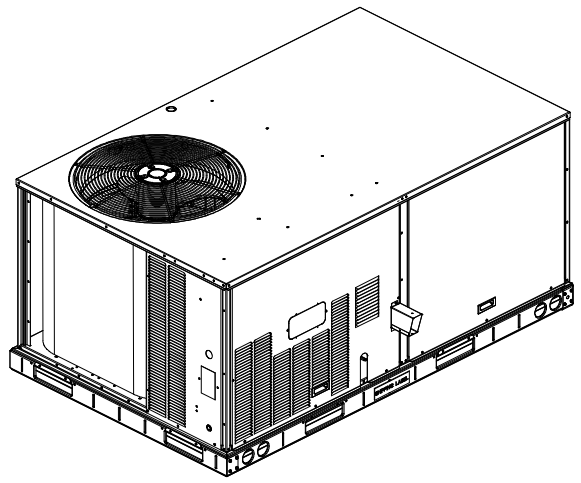
ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 2 OF 3	DATE 09/07/18	SUPERCEDES 06/22/18	48FC 04-07 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003093	REV A
-------------------------------------	-----------------	------------------	------------------------	--	------------	----------

Certified Drawing for 5 Ton RTU 208-3

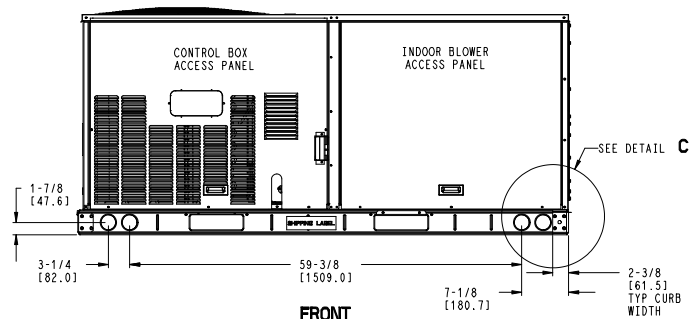
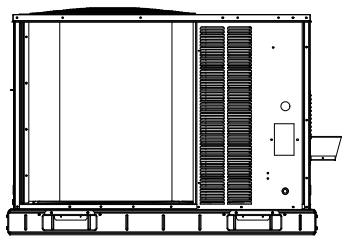
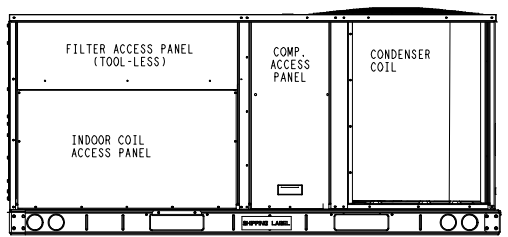
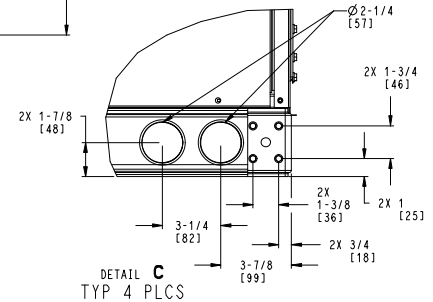
Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM

THIS DOCUMENT IS THE PROPERTY OF UTC CLIMATE, CONTROLS & SECURITY AND IS DELIVERED UPON THE EXPRESS CONDITION THAT THE CONTENTS WILL NOT BE DISCLOSED OR USED WITHOUT WRITTEN CONSENT.
 SUBMISSION OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT.



INSIDE BASERAIL DIMENSIONS
BOTTOM

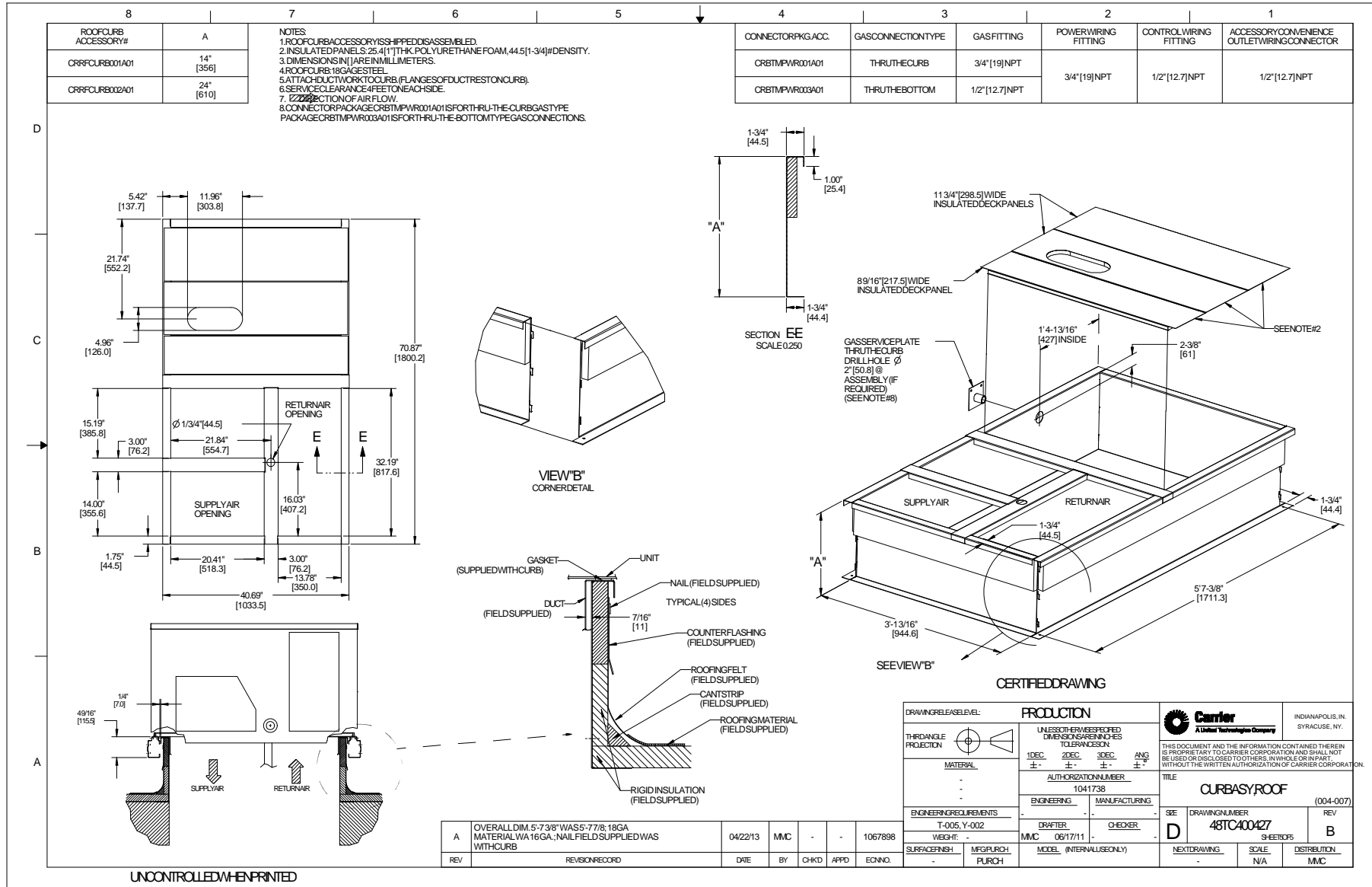


ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 04-07 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003093	REV
U.S. ECCN:NSR	3 OF 3	09/07/18	06/22/18			A

Certified Drawing for 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM



Performance Summary For 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM

Part Number:48FCEA06A3A5-0A0A0

ARI SEER:.....14.00

Base Unit Dimensions

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

Operating Weight

Base Unit Weight:.....511 lb
Medium Heat:.....63 lb
Direct Drive - EcoBlue - High Static:.....5 lb

Accessories

14-inch Tall Roof Curb:.....115 lb

Total Operating Weight:.....694 lb

Unit

Unit Voltage-Phase-Hertz:.....208-3-60
Air Discharge:.....Vertical
Fan Drive Type:.....Direct
Actual Airflow:.....2000 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:.....59.3 F
Evaporator Leaving Air WB:.....57.7 F
Evaporator Leaving Air Enthalpy:.....24.85 BTU/lb
Gross Cooling Capacity:.....59.31 MBH
Gross Sensible Capacity:.....44.73 MBH
Compressor Power Input:.....4.14 kW
Coil Bypass Factor:.....0.163

Heating Performance

Heating Airflow:.....2000 CFM
Entering Air Temp:.....70.0 F
Leaving Air Temp:.....110.7 F
Gas Heating Input Capacity:.....110.0 MBH
Gas Heating Output Capacity:.....88.0 MBH
Temperature Rise:.....40.7 F
Thermal Efficiency (%):.....80.0

Supply Fan

External Static Pressure:.....0.90 in wg
Fan RPM:.....2308
Fan Power:.....1.32 BHP
NOTE:.....Selected IFM RPM Range: 1478 - 2831

Electrical Data

Voltage Range:.....187 - 253
Compressor #1 RLA:.....16
Compressor #1 LRA:.....110
Indoor Fan Motor Type:.....HIGH
Indoor Fan Motor FLA:.....6.4
Combustion Fan Motor FLA (ea):.....0.48
Power Supply MCA:.....28

Performance Summary For 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM

Power Supply MOCP (Fuse or HACR):.....**40**
 Disconnect Size FLA:.....**27**
 Disconnect Size LRA:.....**123**
 Electrical Convenience Outlet:.....**None**
 Outdoor Fan [Qty / FLA (ea)]:.....**1 / 1.5**

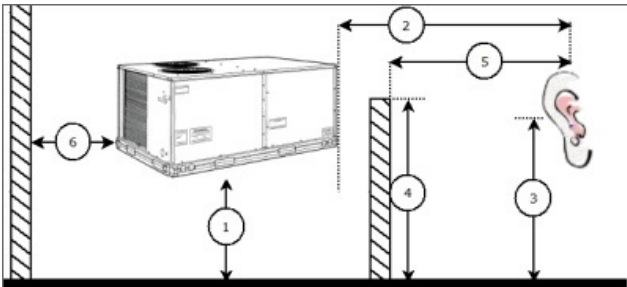
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	95.0	91.1	85.6
125 Hz	86.7	82.4	84.7
250 Hz	80.7	73.6	80.5
500 Hz	76.4	69.4	76.0
1000 Hz	73.8	70.9	72.4
2000 Hz	71.2	62.4	68.0
4000 Hz	66.5	55.5	62.8
8000 Hz	61.8	49.4	59.3
A-Weighted	80.2	74.7	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
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

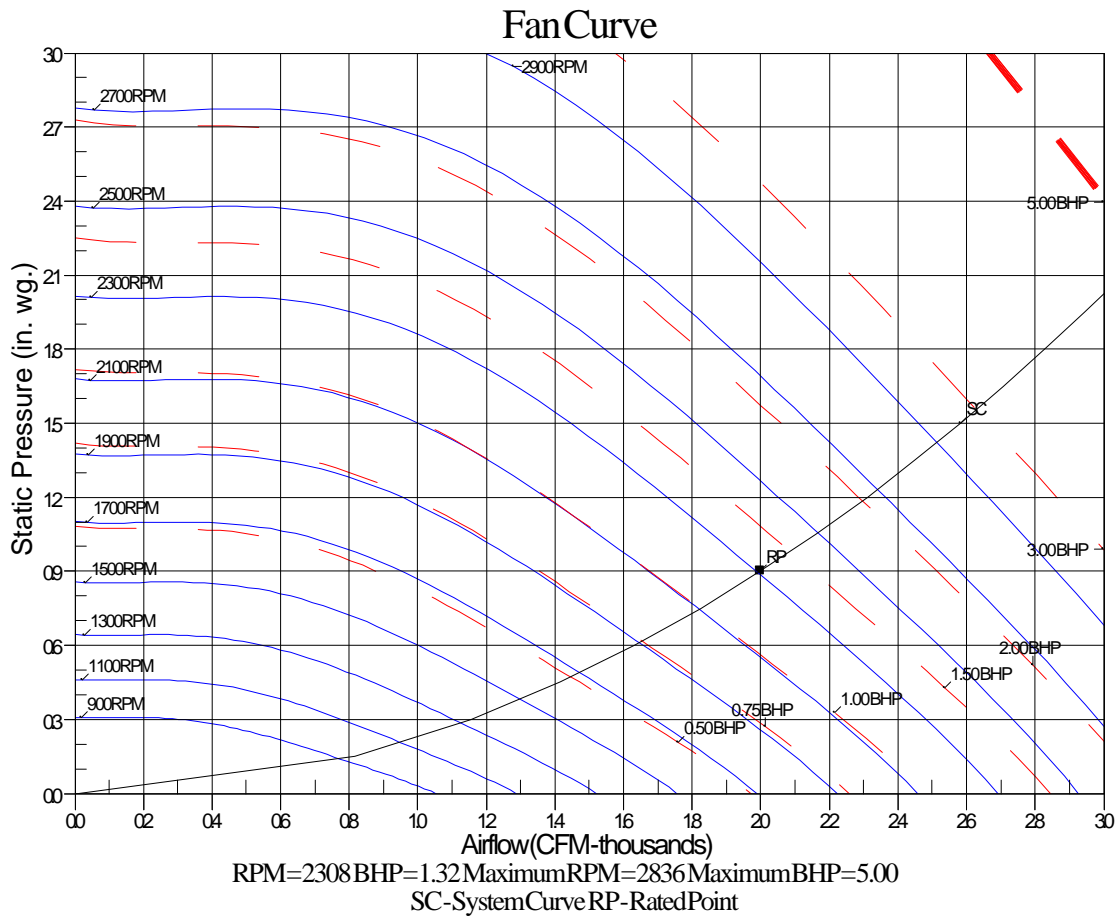
Performance Summary For 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM

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 Feature Sheet for 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM



WeatherMaker® - 48FC

PACKAGED ROOFTOP GAS HEATING/ELECTRIC COOLING UNITS-
14 SEER 3, 4, 5 TONS, 15 IEER 6 Ton



WEATHERMAKER SERIES

48FC units are single packaged gas heating, electric cooling units that are pre-wired and charged with Puron (R-410) refrigerant. The units are factory tested in both heating and cooling modes. 3.5 ton model uses single stage cooling capacity control. 6 ton model uses two stage cooling capacity control.

Approved and certified by:



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.

STANDARD FEATURES INCLUDE:

- Puron (R-410A) HFC refrigerant
- Meets or exceeds ASHRAE 90.1 energy efficiency levels
- Scroll compressors with internal line break and overload protection
- Single-stage cooling capacity 04-06 models, Two Stage on 07 models SEER's to 14.0, IEER's to 15.0
- Accutrol refrigerant metering system on 04-06 models, TXV on 07 size models
- Exclusive non-corrosive composite condensate pan in accordance with ASHRAE Standard 62, sloping design, side or center drain
- Standard cooling operation up to 115°F (46°C) and down to 40°F (4°C) - down to 25°F (-4°C) with winter start kit.
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Fully insulated cabinet
- NEW Direct Drive - EcoBlue Technology Indoor fan system uses Vane Axial fan design and electronically commutated motor
- New Unit Control Board with intuitive quick fan speed adjustment
- Exclusive IGC solid-state control for on-board diagnostics with LED error code designation burner control logic
- Induced draft gas heat combustion design
- Redundant gas valves with up to two stages of heating
- Low pressure and high pressure switch protected.

MAINTENANCE FEATURES:

- Access panels with easy grip handles
- Innovative easy starting, no-strips screw on unit access panels
- Two-inch disposable return air filters and Tool-less filter access door
- New unit control board to facilitate simple safety circuit troubleshooting and simplified control box arrangement

INSTALLATION FEATURES:

- Thru-the-bottom power entry capability
- Single point gas and electric connections
- Full perimeter base rail with built-in rigging adapters and fork slots
- Field convertible from vertical to horizontal airflow

STANDARD WARRANTY:

- 10-year heat exchanger - 15-year stainless steel option
- 5-year compressor
- 3-year System VU
- 1-year parts
- Many optional upgrades also available

OPTIONS INCLUDE BUT ARE NOT LIMITED TO:

- Intelligent System VU communicating controls
- RTU Open Multi-Protocol DDC Controls
- Supply and Return Air Smoke Detectors, high static motors
- Louvered condenser coil guards
- Disconnect switch and convenience outlet options
- Stainless Steel heat exchanger option
- Corrosion resistant coil coating.
- MERV-8 Return Air Filters
- Patented Humid-Mizer[®] adaptive dehumidification system.
- Hinged access panels
- Integrated economizers system. Low and Ultra Low Leak versions
- Phase Monitor Protection
- Condensate Overflow Protection

For a complete list of options and accessories refer to the Product Data Catalog for this unit.

Spec Sheet for 5 Ton RTU 208-3

Project: ~Untitled1
Prepared By:

09/19/2020
12:13PM