

RTU-12.5T

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

Unit Report For RTU-12.5T

Unit Parameters

Unit Model:48HCFE14A2M5-6U0G0
 Unit Size:14 (12.5 Tons)
 Volts-Phase-Hertz:208-3-60
 Heating Type:Gas
 Duct Cfg: Vertical Supply / Vertical Return
 High Heat
 Two stage cooling models with Humidi-MiZer

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

Unit Length:9' 7.875"
 Unit Width:5' 3.375"
 Unit Height:4' 9.375"
 *** Total Operating Weight:1775 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

Medium Static Option - Belt Drive
 Al/Cu - Al/Cu - Louvered Hail Guards
 Electromechanical Controls w/W7220 Econo Controller
 Temp Ultra Low Leak Economizer w/Baro Relief
 Standard Packaging
 2-Speed indoor fan motor controlled by VFD
 Humidi-MiZer™ Adaptive Dehumidification System
Low Ambient Head Pressure Controller (Grow House)
Hot Gas Delay (Grow House)
Sub-Cool Deactivation (Grow House)
Winter Start Kit (Grow House)
GPS Needle Point Bi-Polar Ionization (Grow House)

Warranty Information

1-Year parts
 5-Year compressor parts
 10-Year heat exchanger - Aluminized

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
48HCFE14A2M5-6U0G0	Carrier High Efficient Packaged Rooftop Unit	2
	12.5 Tons Cooling 208/230-3	
	Medium Static Option - Belt Drive	
	Al/Cu - Al/Cu - Louvered Hail Guards	
	Humidi-MiZer™ Adaptive Dehumidification System	
	Ultra Low leak Temp Econo X with baro relief, W7220 control.	
	Meets Calif. Title 24 FDD & Leak Rates	
	2-Speed Indoor Fan (VFD) Controller	
Field Installed Accessories		
CRDISKIT001A00	2 Speed VFD display kit	2
2-0(k)108-2008	Knock Down Roof Curb	2

Certified Drawing for RTU-12.5T

NOTES:

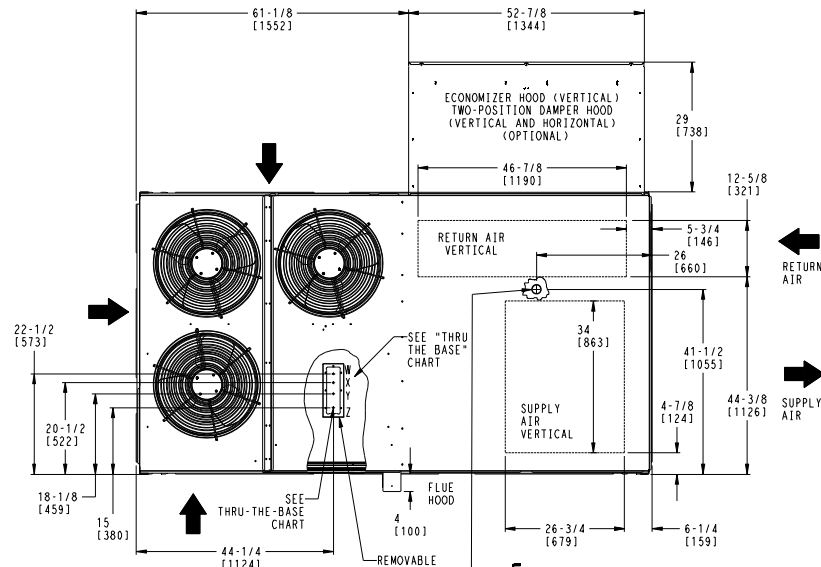
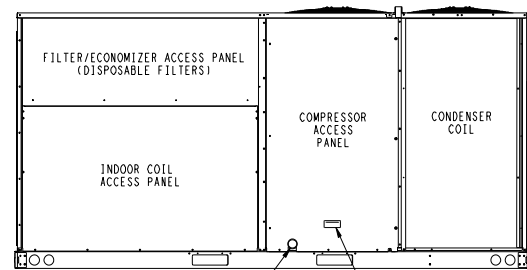
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2.  CENTER OF GRAVITY
3.  DIRECTION OF AIR FLOW



P.O. BOX 4808
SYRACUSE, NY
13221

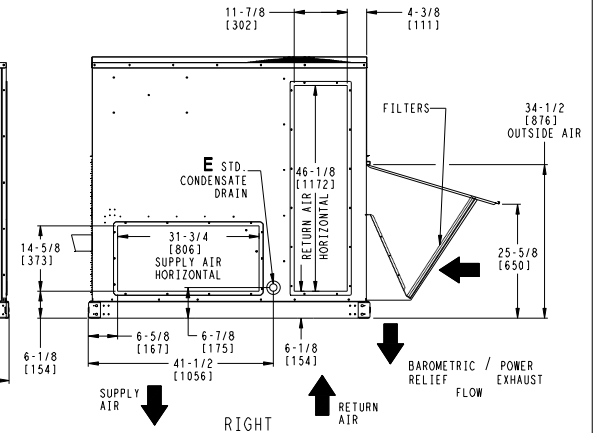
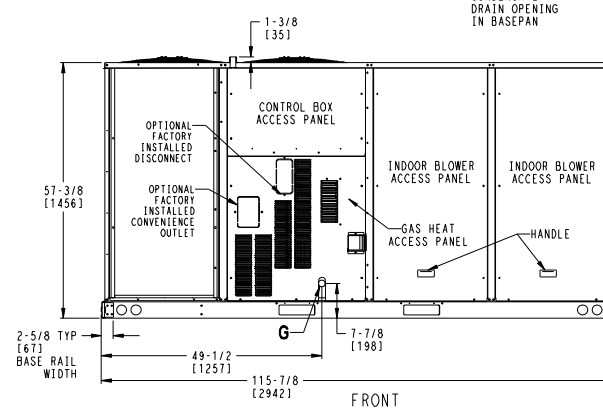
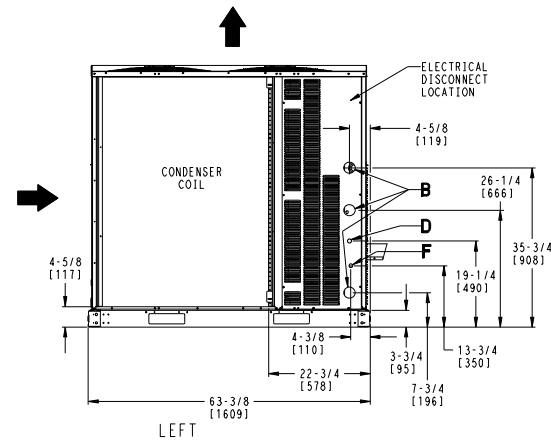
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CONNECTION SIZES	
B	2 1/2" [64] DIA POWER SUPPLY HOLE
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
F	7/8" [22] DIA FIELD CONVENIENCE OUTLET HOLE
G	3/4"-14 NPT GAS CONNECTION

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTMPWRO05A00, 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]	

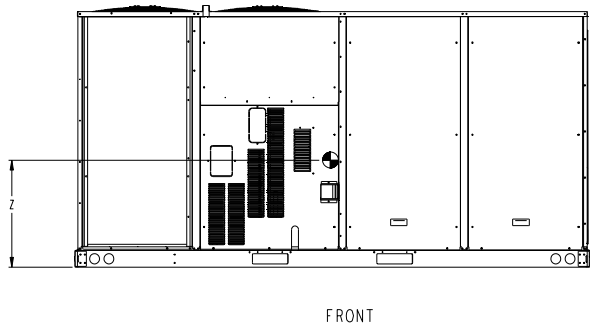
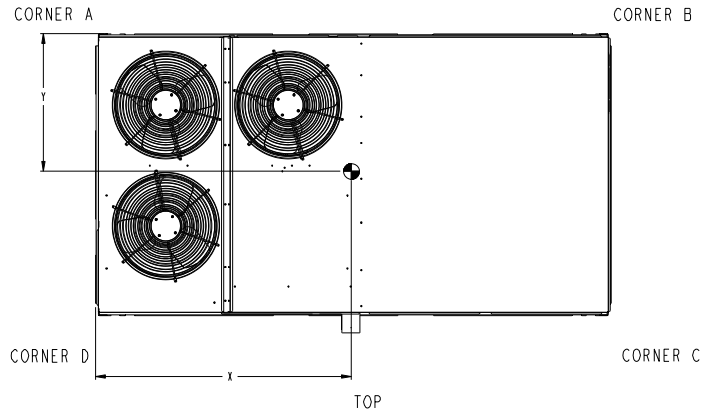


DATE	SUPERCEDES	48HCD 14 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50TM501227	REV
06/15/11	-			C

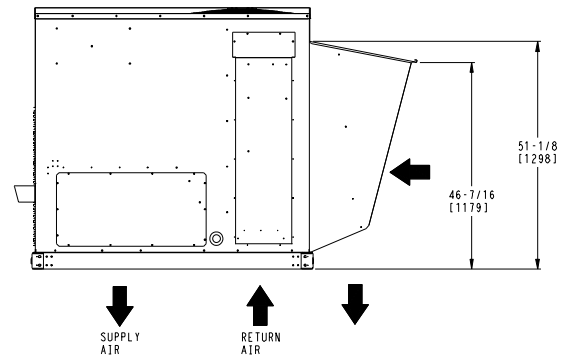
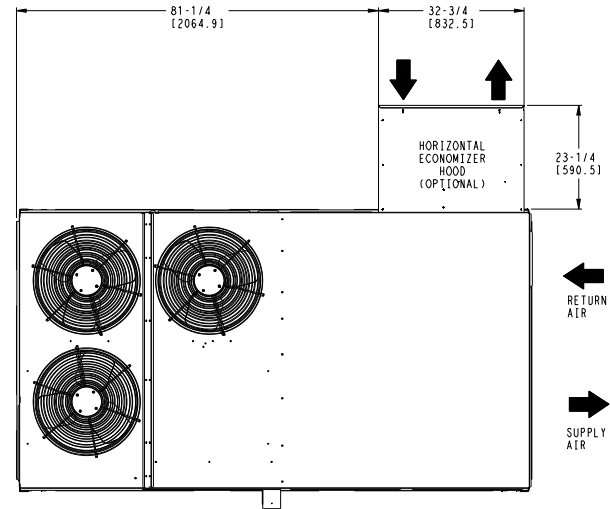
Certified Drawing for RTU-12.5T

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
48HCD 14	1430	649	342	155	377	171	372	169	338	153	60 3/4 [1543]	31 1/2 [800]	20 5/8 [524]

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



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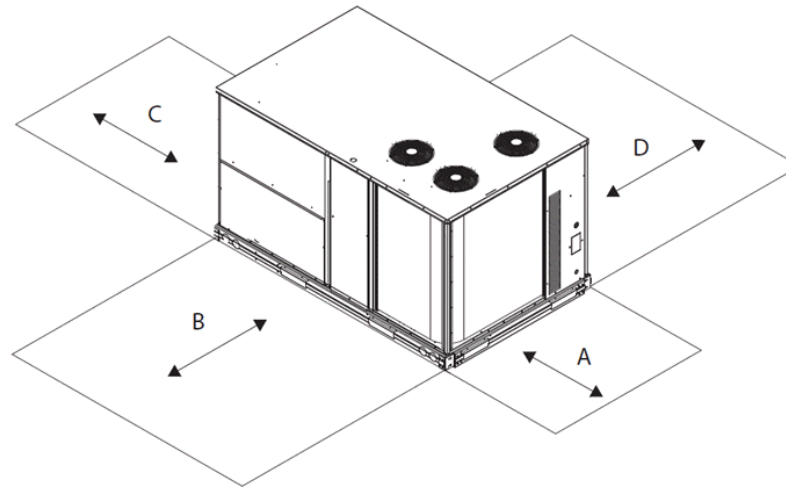


HORIZONTAL ECONOMIZER

DATE 06/15/11	SUPERCEDES -	48HCD 14 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50TM501227	REV C
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Certified Drawing for RTU-12.5T

Service Clearance



C10578

LOCATION	DIMENSION	CONDITION
A	48-in (1219 mm)	• Unit disconnect is mounted on panel
	18-in (457 mm)	• No disconnect, convenience outlet option
	12-in (305 mm)	• Recommended service clearance
B	42-in (1067 mm)	• Minimum clearance
	36-in (914 mm)	• Surface behind servicer is grounded (e.g., metal, masonry wall)
	Special	• Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
C	36-in (914 mm)	• Check for sources of flue products within 10-ft of unit fresh air intake hood
	18-in (457 mm)	• Side condensate drain is used
	12-in (305 mm)	• Minimum clearance
D	48-in (1219 mm)	• No flue discharge accessory installed, surface is combustible material
	42-in (1067 mm)	• Surface behind servicer is grounded (e.g., metal, masonry wall, another unit)
	36-in (914 mm)	• Surface behind servicer is electrically non-conductive (e.g., wood, fiberglass)
	Special	• Check for adjacent units or building fresh air intakes within 10-ft of this unit's flue outlet

NOTE: Unit not designed to have overhead obstruction. Contact Application Engineering for guidance on any application planning overhead obstruction or vertical clearances.

Chassis 5

Performance Summary For RTU-12.5T

Part Number:48HCFE14A2M5-6U0G0

ARI EER: 12.20
IEER (Max Cooling at Normal Cooling Design Mode): 13.9

Base Unit Dimensions

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

Operating Weight

Base Unit Weight: 1430 lb
High Heat: 42 lb
Two stage cooling models with Humidi-MiZer: 90 lb
Medium Static Option - Belt Drive: 45 lb
Al/Cu - Al/Cu - Louvered Hail Guards: 45 lb
Temp Ultra Low Leak Economizer w/Baro Relief: 103 lb
2-Speed Indoor Fan (VFD) Controller: 20 lb

Total Operating Weight: 1775 lb

Unit

Unit Voltage-Phase-Hertz: 208-3-60
Air Discharge: Vertical
Fan Drive Type: Belt
Actual Airflow: 5000 CFM
Site Altitude: 5300 ft

Cooling Performance

Condenser Entering Air DB: 95.0 F
Evaporator Entering Air DB: 75.0 F
Evaporator Entering Air WB: 62.0 F
Entering Air Enthalpy: 30.55 BTU/lb
Evaporator Leaving Air DB: 51.8 F
Evaporator Leaving Air WB: 51.8 F
Evaporator Leaving Air Enthalpy: 23.21 BTU/lb
Gross Cooling Capacity: 130.14 MBH
Gross Sensible Capacity: 103.12 MBH
Compressor Power Input: 9.86 kW
Coil Bypass Factor: 0.050

Heating Performance

Heating Airflow: 5000 CFM
Entering Air Temp: 70.0 F
Leaving Air Temp: 103.4 F
Gas Heating Input Capacity: 145.9 / 182.4** MBH
Gas Heating Output Capacity: 118.6 / 148.2** MBH
Sea Level Gas Heating Input Capacity: 192.0 / 240.0 MBH
Temperature Rise: 33.4 F
Thermal Efficiency (%): 81.0
NOTE: ** - Input/Output Capacities are at Site Altitude

Supply Fan

External Static Pressure: 0.50 in wg
Options / Accessories Static Pressure
Humidi-MiZer Dehumidification System: 0.08 in wg
Economizer: 0.04 in wg
Total Application Static (ESP + Unit Opts/Acc.): 0.62 in wg
Fan RPM: 706
Fan Power: 1.90 BHP
NOTE: Selected IFM RPM Range: 609 - 778

Performance Summary For RTU-12.5T

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

Electrical Data

Voltage Range:	187 - 253
Compressor #1 RLA:.....	19.6
Compressor #1 LRA:.....	136
Compressor #2 RLA:.....	19.6
Compressor #2 LRA:.....	136
Indoor Fan Motor Type:.....	MED
Indoor Fan Motor FLA:	10.8
Combustion Fan Motor FLA (ea):.....	0.48
Power Supply MCA:	60
Power Supply MOCP (Fuse or HACR):.....	70
Disconnect Size FLA:	63
Disconnect Size LRA:	361
Electrical Convenience Outlet:	None
Outdoor Fan [Qty / FLA (ea)]:	3 / 1.5

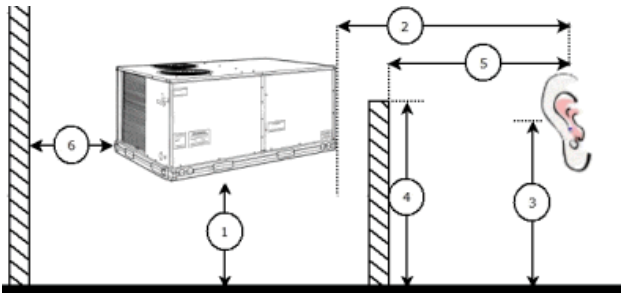
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	95.6	92.5	89.3
125 Hz	94.6	85.0	86.0
250 Hz	78.7	64.5	82.9
500 Hz	74.8	65.1	80.7
1000 Hz	68.9	62.9	78.5
2000 Hz	64.7	59.2	73.6
4000 Hz	70.6	59.5	69.6
8000 Hz	68.8	57.5	64.5
A-Weighted	81.3	72.7	83.0

Advanced Acoustics



Advanced Acoustics Parameters

1. Unit height above ground:	30.0	ft
2. Horizontal distance from unit to obstruction:	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 receiver:	0.0	ft

Detailed Acoustics Information

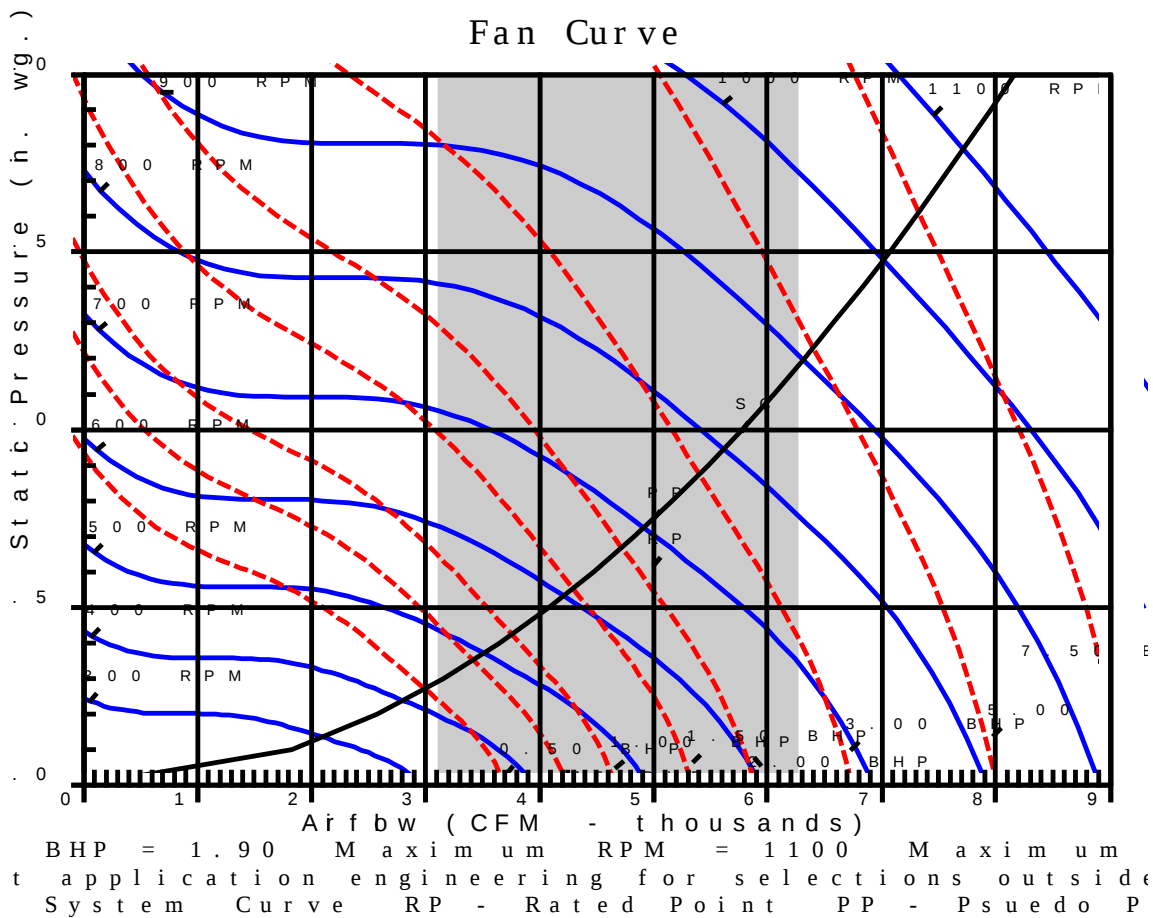
Performance Summary For RTU-12.5T

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	89.3	86.0	82.9	80.7	78.5	73.6	69.6	64.5	92.2 Lw
B	63.1	69.9	74.3	77.5	78.5	74.8	70.6	63.4	83.2 LwA
C	56.9	53.6	50.5	48.3	46.1	41.2	37.2	32.1	59.8 Lp
D	30.7	37.5	41.9	45.1	46.1	42.4	38.2	31.0	50.8 LpA

Legend

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

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



Unit Feature Sheet for RTU-12.5T



WeatherMaster® – 48HC

PACKAGED ROOFTOP GAS HEATING/ELECTRIC COOLING UNITS
3, 4, 5, 6, 7.5, 8.5, 10 and 12.5 TONS



Optional Louvered Hail Guard Shown



WEATHERMASTER SERIES

WeatherMaster (48HC) units are high efficiency, single packaged gas heating, electric cooling units that are pre-wired and charged with Puron® (R-410) refrigerant. They are factory tested in both heating and cooling modes, and rated in accordance with AHRI Standards 210/240 (04-06 sizes) and 340/360 (07-14 sizes). WeatherMaster units are designed in accordance with UL Standard 1995, and listed by UL or ETL.



- OF -



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.

For a complete list of options and accessories refer to the product data catalog.

STANDARD FEATURES INCLUDE:

- Puron® (R-410A) HFC refrigerant charged
- ASHRAE 90.1 compliant and Energy Star qualified
- Scroll compressors with internal line break and overload protection
- Single-stage cooling capacity control on all 04-07 models
- Two-stage cooling capacity control on 07-14 models
- SEERs up to 15.6 and EERs up to 13.0
- IEEERs up to 14.0 with single speed indoor fan motor
- IEEERs up to 16.0 with 2-speed/VFD indoor fan motor
- TXV metering device on each independent circuit
- 04-06 models use X-13 (5 Speed/Torque) Direct Drive Motor standard
- Belt drive fan and pulley combinations - all three phase models
- Exclusive non-corrosive composite condensate pan in accordance with ASHRAE Standard 62, sloping design, side or center drain
- Standard cooling operation to 125°F (52°C) to 35°F (2°C)
- Units use high performance copper tube / aluminum coils
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Exclusive IGC solid-state control for on-board diagnostics with LED error code designation burner control logic and energy saving indoor fan motor delay
- Low NOx models that meet California Air Quality Management
- 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-strip screws on unit access panels
- Two-inch disposable return air filters and Tool-less filter access
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement
- Exclusive IGC solid-state control for on-board diagnostics with LED error code designation, burner control logic and energy saving indoor fan motor delay

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
- Convertible from vertical to horizontal airflow for slab mounting

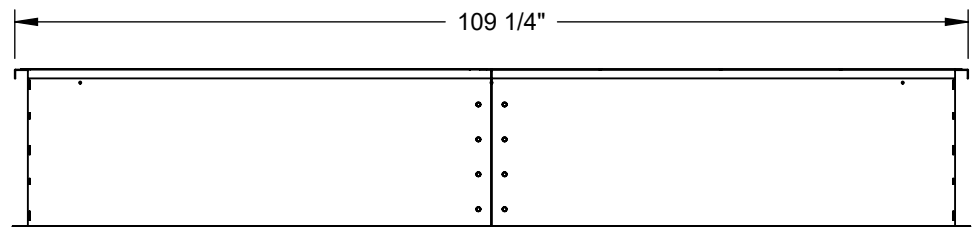
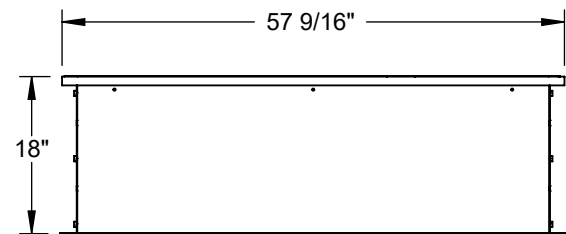
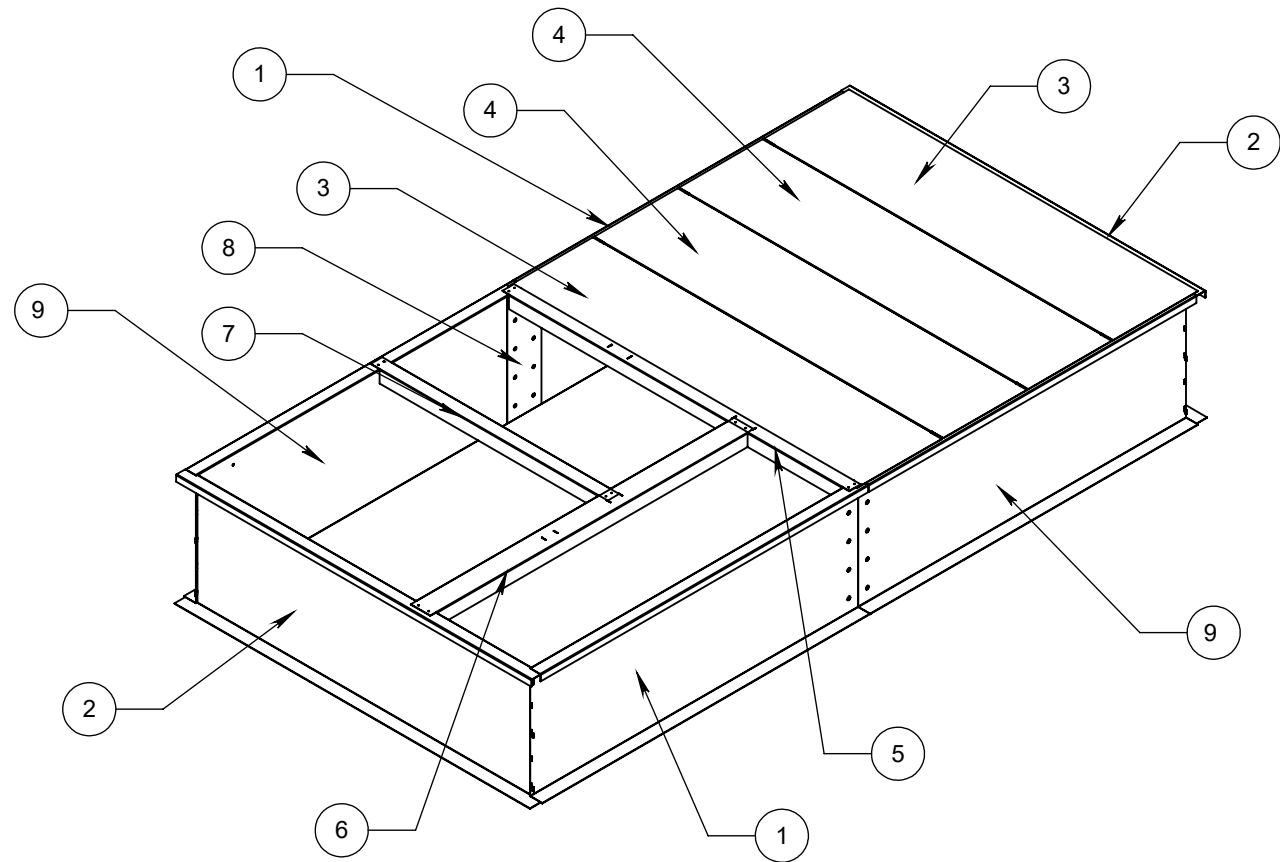
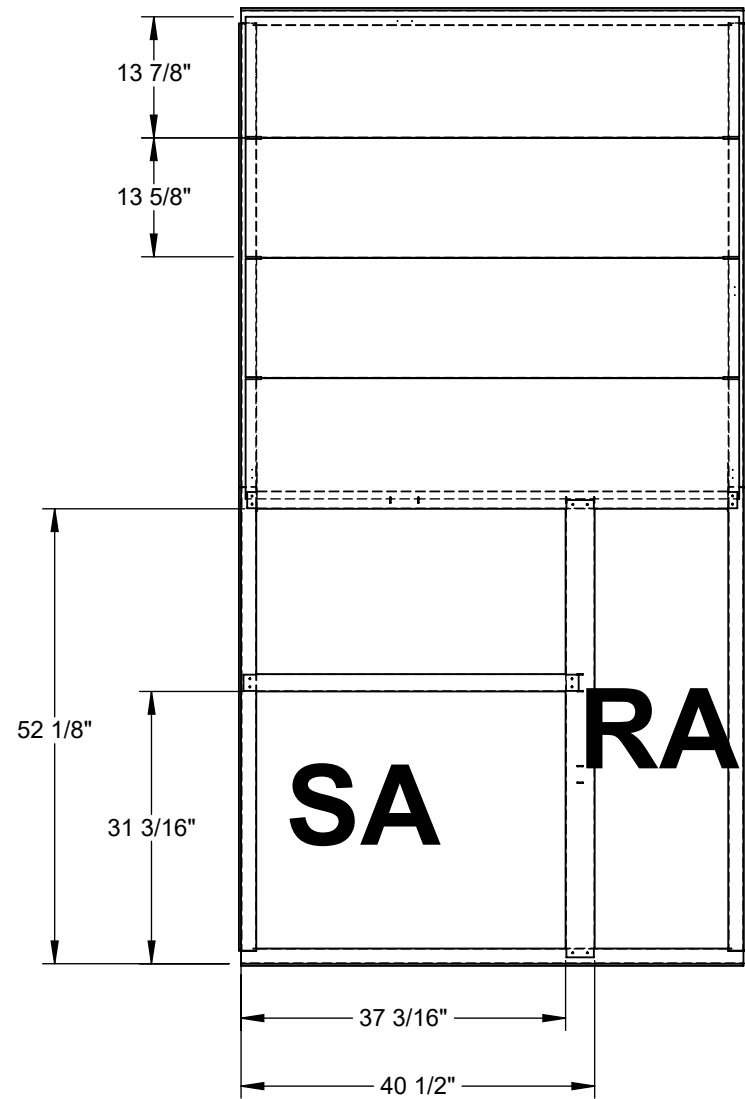
STANDARD PARTS WARRANTY:

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

OPTIONS INCLUDE BUT ARE NOT LIMITED TO:

- PremierLink™ and Multi-Protocol Direct Digital Controls (DDC)
- ComfortLink controls (except on two stage 07 models and 11 size models with Humidi-MiZer)
- Supply and Return Air Smoke Detectors, high static motors
- Louvered condenser coil guards and coil coating options
- Economizer, disconnect and convenience outlet options
- Stainless Steel heat exchanger (standard with Low NOx)
- Hinged access panels
- Humidi-MiZer adaptive dehumidification system
- Foil faced insulation throughout entire cabinet
- Low ambient cooling operation controls
- HACR circuit breaker
- Condensate overflow switch

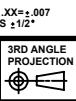
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	INITIAL DESIGN OF HV CURBS	9/29/17	MWG
2	CHANGED LONG WALL CONFIG	5/11/2022	MQG



ITEM NO.	PART NUMBER	QTY.
1	2-OK018-4008A	2
2	2-OK018-4008-2	2
3	2-0014-4008-8	2
4	2-0014-4008-7	2
5	4008-HV-1	1
6	4008-HV-2	1
7	4008-HV-3	1
8	2-OK018-4008 SPLICE PLATE	2
9	2-OK018-4008B	2

APPROVALS		DATE	TITLE: 2-OK018-4008	
DRAWN: mgreenwood		5/11/2022		
CHECKED:				
MGMT:				
CDI 9560 85TH AVE. N. MAPLE GROVE, MN 55369 (763)391-7790 (763)391-7851			FILE NAME: 2-OK018-4008	DRAWING NO.: 2-OK018-4008
			SCALE: 1:22	REV: 2
			SHEET: 1	OF 5

UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE:
.X ± 0.05
.XX ± 0.03
.XXX ± 0.01
DIMENSIONS ARE AS FOLLOWS:
1.00 in
[25.40 mm]



RTU-15T

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

Unit Report For RTU-15T

Unit Parameters

Unit Model:48HCFE17A2M5-6U0G0
 Unit Size:17 (15 Tons)
 Volts-Phase-Hertz: 208-3-60
 Heating Type:Gas
 Duct Cfg: Vertical Supply / Vertical Return
 High Heat
 Two stage Cooling with Humidi-MiZer

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

Unit Length:10' 7.875"
 Unit Width:7' 2.375"
 Unit Height:4' 1.375"
 *** Total Operating Weight: 2446 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:20 x 25 x 2

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

Unit Configuration

Medium Static Option - Vertical Models
 Al/Cu - Al/Cu - Louvered Hail Guard
 Electromechanical Controls w/W7220 Econo Controller
 Temp Ultra Low Leak Economizer w/Baro Relief
 Standard Packaging
 2-Speed indoor fan motor controlled by VFD
 Humidi-MiZer™ Adaptive Dehumidification System
Low Ambient Head Pressure Controller (Grow House)
Hot Gas Delay (Grow House)
Sub-Cool Deactivation (Grow House)
Winter Start Kit (Grow House)
GPS Needle Point Bi-Polar Ionization (Grow House)

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
48HCFE17A2M5-6U0G0	Carrier High Efficient Packaged Rooftop Unit	2
	15 Tons Cooling 208/230-3	
	Medium Static Option - Vertical Models	
	Al/Cu - Al/Cu - Louvered Hail Guard	
	Humidi-MiZer™ Adaptive Dehumidification System	
	Ultra Low leak Temp Econo X with baro relief, W7220 control.	
	Meets Calif. Title 24 FDD & Leak Rates	
	2-Speed Indoor Fan (VFD) Controller	
Field Installed Accessories		
CRDISKIT001A00	2 Speed VFD display kit	2
2-0(k)018-4159	Knock Down Roof Curb	2

Certified Drawing for RTU-15T



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48HC 17 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50HE502156	REV
U.S. FCCN:NSR	1 OF 5	02/08/19	10/19/13			B

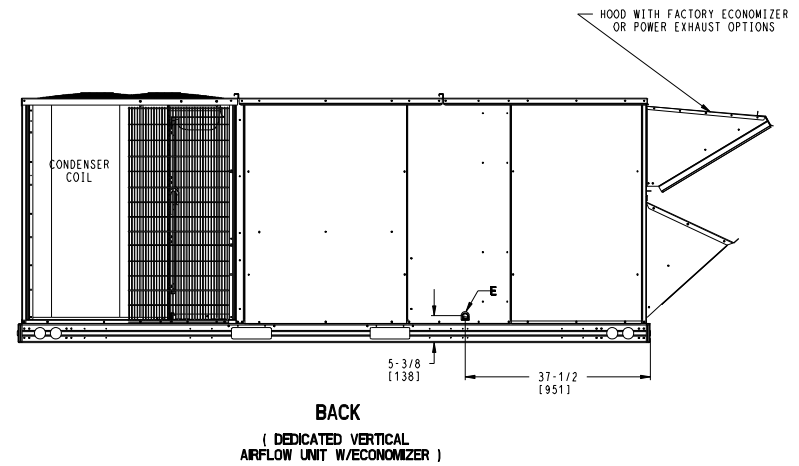
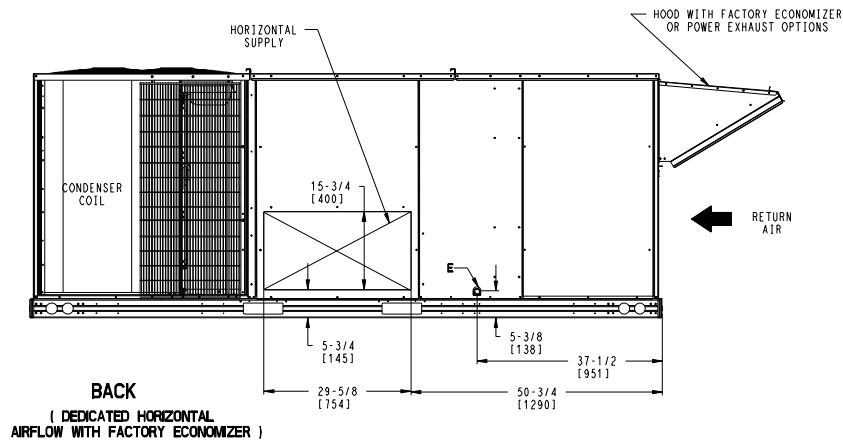
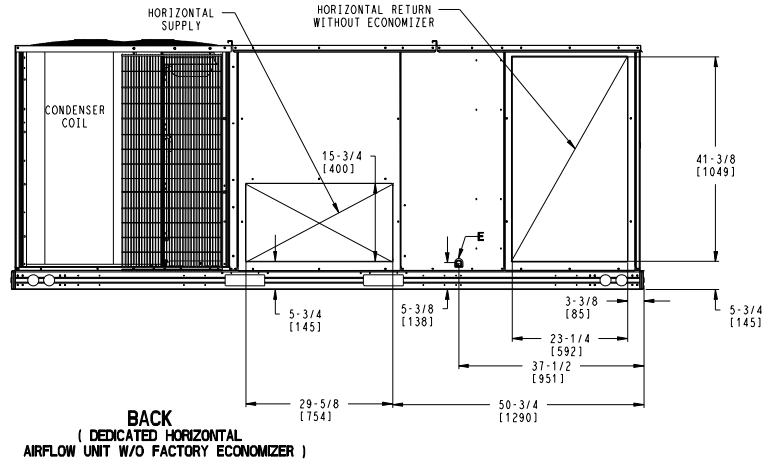
Certified Drawing for RTU-15T

CONNECTION SIZES	
E	3/4"-14 NPT CONDENSATE DRAIN



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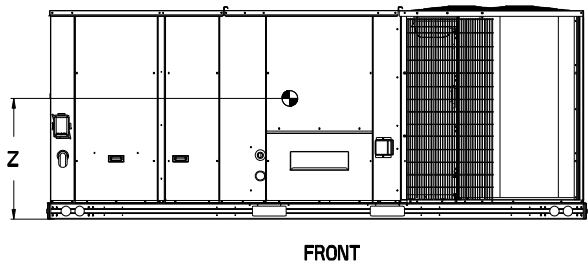
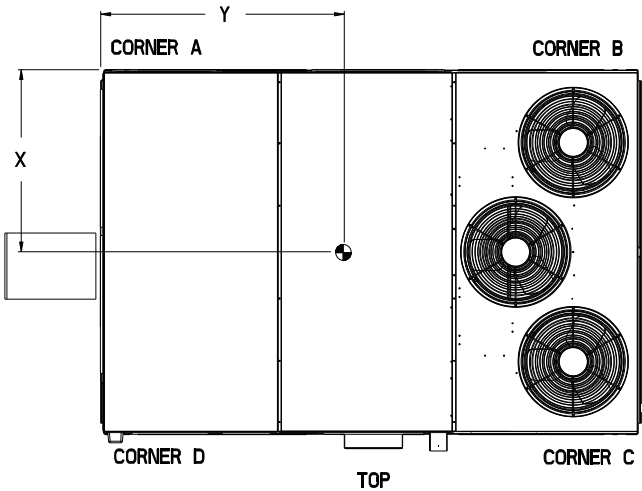


ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48HC 17 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50HE502156	REV
U.S. ECCN: NSR	3 OF 5	02/08/19	10/19/13			B

Certified Drawing for RTU-15T

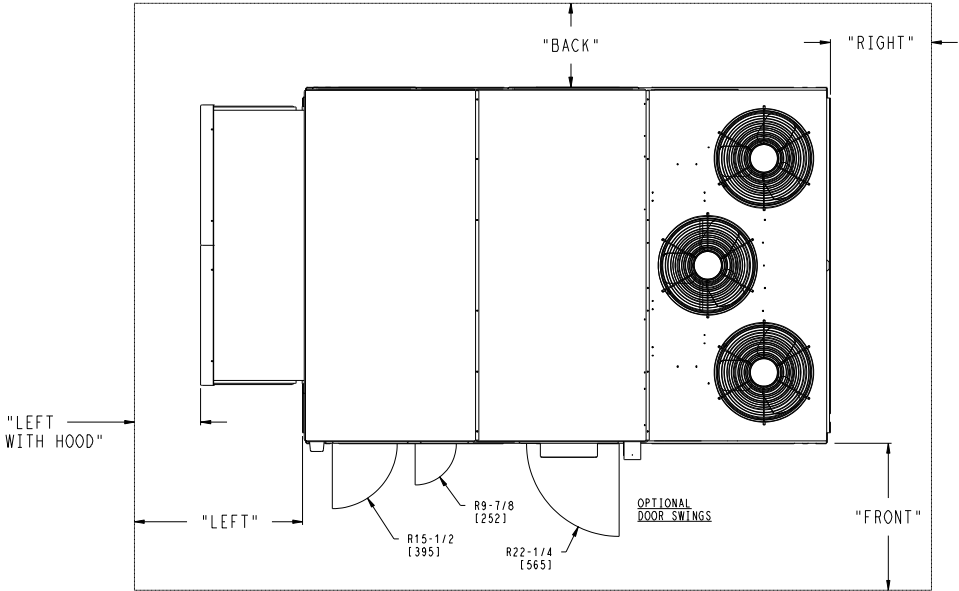
UNIT	STD UNIT WEIGHT *		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
48HC17	1892	860	401	182	449	204	565	257	505	230	48 [1219]	67 3/8 [1711]	16 1/2 [419]

* 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:
- CLEARANCE ABOVE THE UNIT TO BE 72"
 - 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	42 [1067mm]	36 [914mm]	18 [457mm]
LEFT WITH HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

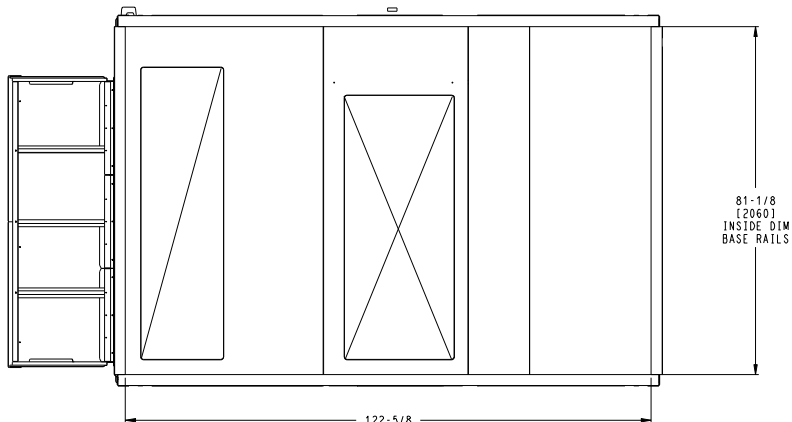
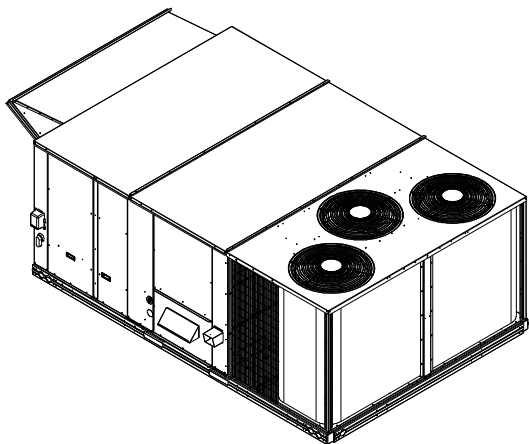
ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 4 OF 5	DATE 02/08/19	SUPERCEDES 10/19/13	48HC 17 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50HE502156	REV B
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Certified Drawing for RTU-15T

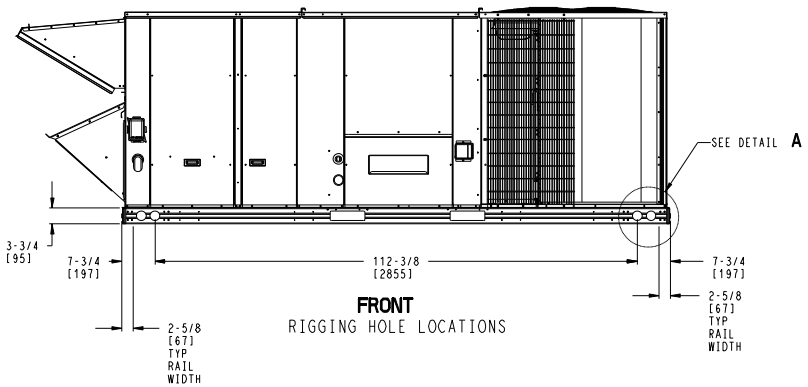


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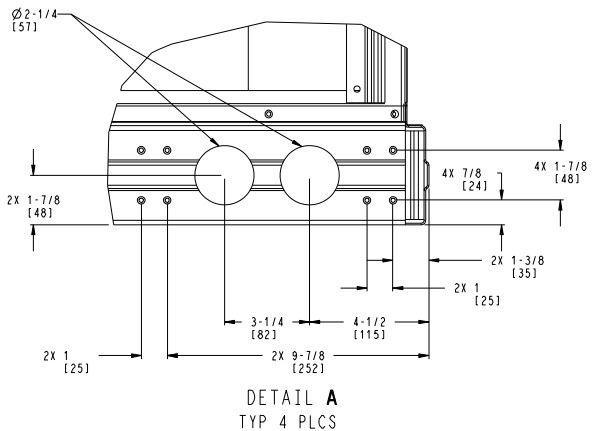
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BOTTOM
INSIDE BASERAIL DIMENSIONS



FRONT
RIGGING HOLE LOCATIONS



DETAIL A
TYP 4 PLCS

ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 5 OF 5	DATE 02/08/19	SUPERCEDES 10/19/13	48HC 17 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50HE502156	REV B
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Performance Summary For RTU-15T

Part Number:48HCFE17A2M5-6U0G0

ARI EER: 12.00
IEER (Max Cooling at Normal Cooling Design Mode): 13.5

Base Unit Dimensions

Unit Length: 127.9 in
Unit Width: 86.4 in
Unit Height: 49.4 in

Operating Weight

Base Unit Weight: 1892 lb
High Heat: 113 lb
Two stage Cooling with Humidi-MiZer: 110 lb
Medium Static Option - Vertical Models: 5 lb
Al/Cu - Al/Cu - Louvered Hail Guard: 60 lb
Temp Ultra Low Leak Economizer w/Baro Relief: 246 lb
2-Speed Indoor Fan (VFD) Controller: 20 lb

Total Operating Weight: 2446 lb

Unit

Unit Voltage-Phase-Hertz: 208-3-60
Air Discharge: Vertical
Fan Drive Type: Belt
Actual Airflow: 6000 CFM
Site Altitude: 5300 ft

Cooling Performance

Condenser Entering Air DB: 95.0 F
Evaporator Entering Air DB: 75.0 F
Evaporator Entering Air WB: 62.0 F
Entering Air Enthalpy: 30.55 BTU/lb
Evaporator Leaving Air DB: 51.9 F
Evaporator Leaving Air WB: 51.9 F
Evaporator Leaving Air Enthalpy: 23.25 BTU/lb
Gross Cooling Capacity: 154.21 MBH
Gross Sensible Capacity: 123.38 MBH
Compressor Power Input: 12.20 kW
Coil Bypass Factor: 0.122

Heating Performance

Heating Airflow: 6000 CFM
Entering Air Temp: 70.0 F
Leaving Air Temp: 116.2 F
Gas Heating Input Capacity: 243.2 / 304.0** MBH
Gas Heating Output Capacity: 197.6 / 246.2** MBH
Sea Level Gas Heating Input Capacity: 320.0 / 400.0 MBH
Temperature Rise: 46.2 F
Thermal Efficiency (%): 81.0
NOTE: ** - Input/Output Capacities are at Site Altitude

Supply Fan

External Static Pressure: 0.50 in wg
Options / Accessories Static Pressure
Humidi-MiZer Dehumidification System: 0.07 in wg
Economizer: 0.06 in wg
Total Application Static (ESP + Unit Opts/Acc.): 0.63 in wg
Fan RPM: 780
Fan Power: 2.17 BHP
NOTE: Selected IFM RPM Range: 679 - 863

Performance Summary For RTU-15T

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

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:.....	MED
Indoor Fan Motor FLA:	10.8
Combustion Fan Motor FLA (ea):.....	0.52
Power Supply MCA:	71.6
Power Supply MOCP (Fuse or HACR):.....	90
Disconnect Size FLA:	75
Disconnect Size LRA:	414
Electrical Convenience Outlet:	None
Outdoor Fan [Qty / FLA (ea)]:	3 / 1.5

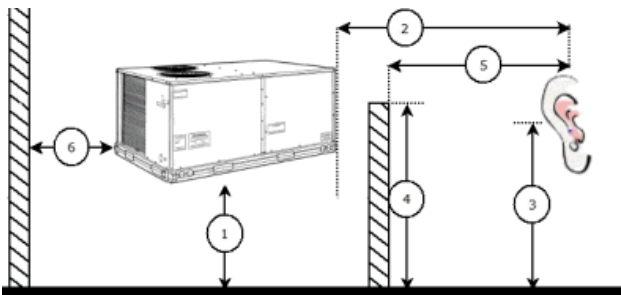
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Rating:	84.0 db
Sound Power Levels, db re 10E-12 Watts	

	Discharge	Inlet	Outdoor
63 Hz	88.7	88.0	92.2
125 Hz	81.7	72.9	83.9
250 Hz	74.3	67.8	80.4
500 Hz	73.8	61.1	81.8
1000 Hz	67.5	54.7	78.7
2000 Hz	66.2	49.7	76.5
4000 Hz	66.8	44.7	72.2
8000 Hz	56.7	33.6	65.4
A-Weighted	75.8	65.9	84.1

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

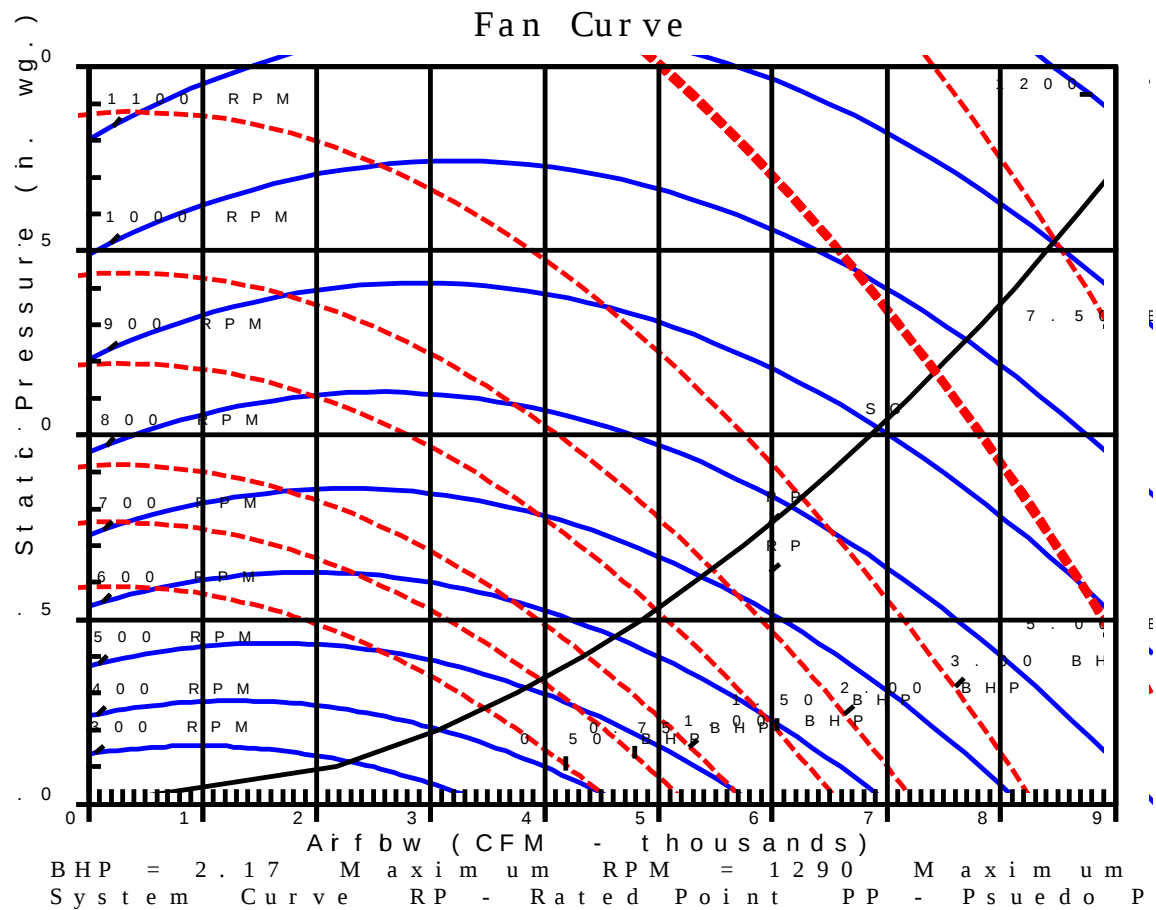
Performance Summary For RTU-15T

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	92.2	83.9	80.4	81.8	78.7	76.5	72.2	65.4	93.6 Lw
B	66.0	67.8	71.8	78.6	78.7	77.7	73.2	64.3	84.1 LwA
C	59.8	51.5	48.0	49.4	46.3	44.1	39.8	33.0	61.2 Lp
D	33.6	35.4	39.4	46.2	46.3	45.3	40.8	31.9	51.7 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.



Unit Feature Sheet for RTU-15T



WeatherMaster® – 48HC

PACKAGED ROOFTOP GAS HEATING/ELECTRIC COOLING UNITS
15, 17.5, 20, 25 TONS



Optional Economizer and Power Exhaust Shown



WEATHERMASTER SERIES

WeatherMaster (48HC) units are high efficient one-piece gas heating, electric cooling units that are pre-wired and charged with Puron (R-410) refrigerant. They are factory tested in both heating and cooling modes, and rated in accordance with ARI Standard 340/360. WeatherMaster units are designed in accordance with UL Standard 1995, and listed by ETL.



Certified to ISO 9001

For a complete list of options and accessories refer to the product data catalog.

STANDARD FEATURES INCLUDE:

- Puron (R-410A) HFC refrigerant
- ASHRAE 90.1 compliant and Energy Star certified
- Scroll compressors with internal line break and overload protection
- Two-stage cooling capacity control on all models
- Units use high performance copper tube / aluminum fin condenser and evaporator coils
- EERs up to 12.0
- IEEERs up to 13.2 with single speed indoor fan motor
- IEEERs up to 13.8 with 2-speed/VFD indoor fan motor
- TXV refrigerant metering device on each circuit
- Exclusive non-corrosive composite condensate pan in accordance with ASHRAE Standard 62, sloping design
- Standard cooling operation up to 125°F (52°C) and down to 35°F (2°C) ambient temperatures
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Fully insulated cabinet
- 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:

- Major access panels with easy grip handles
- Innovative easy starting, no-strip screws on unit access panels
- Two-inch disposable return air filters with integral easy opening access flange and slide out filter track
- Belt drive evaporator-fan motor and pulley combinations
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement
- Exclusive IGC solid-state control for on-board diagnostics with LED error code designation, burner control logic and indoor fan delay

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
- Dedicated vertical and horizontal airflow models available and ordered as a factory option only. No special kits required

STANDARD WARRANTY:

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

OPTIONS INCLUDE BUT ARE NOT LIMITED TO:

- PremierLink™ and Multi Protocol Direct Digital Controls (DDC)
- ComfortLink controls
- Supply and Return Air Smoke Detectors
- Medium and High static motors
- Louvered condenser coil guards, Manual Damper, CO2 sensor
- Economizer, disconnect and convenience outlet options
- Stainless Steel heat exchanger option
- Corrosion resistant coil coating, 4" field filter track
- Hinged access panels
- Humid-Mizer® adaptive dehumidification system
- Foil faced insulation throughout entire cabinet
- Low ambient cooling operation controls
- HACR circuit breaker

