SUBMITTAL

Project

BCF 1492 - El Paso, TX

Date

22 August 2024

Note:

- "Every unit will get a ZS2-H-CAR Combo Temp/Humidity Sensor and Dual enthalpy sensor CRHUMDSN001B00 listed on quote"
- Curb Adapters not included as existing units currently sit on adapters.

Table Of Contents

Project: BCF 1492 - El Paso, TX 08-22-2024
Prepared By: 03:23PM

RTU 1-5

Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report

Unit Parameters

Unit Model: **48FCFM24J3M6-3X5C0**
Unit Size: ..... **24 (20 Tons)**
Volts-Phase-Hertz: **460-3-60**
Heating Type: ..... **Gas**
Heat Control: ..... **High Heat**
Duct Cfg: ..... **Vertical Supply / Vertical Return**
DX Options: ..... **Two Stage Cooling/Single Circuit**

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

Unit Length: ..... **11' 9.5"**
Unit Width: ..... **7' 2.375"**
Unit Height: ..... **3' 11.75"**
Total Operating Weight: ..... **2537** 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.

Unit Configuration

Condensate Overflow Switch
High Static Option - Vertical Models
Al/Cu - Al/Cu - Louvered Hail Guard
SystemVu Controller
Enthalpy Ultra Low Leak Econo w/PE (cent) - Vertical Air Only
Hinged Access Panels and Powered Convenience Outlet
Non-Fused Disconnect
Standard Packaging

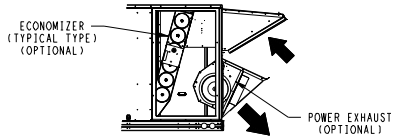
Warranty Information

1-Year parts(std.)
5-Year compressor parts(std.)
10-Year heat exchanger - Aluminized(std.)
3-Year SystemVu Controller
Start-up, First Unit

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

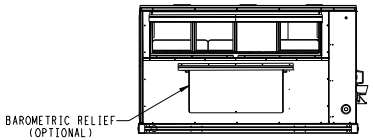
Ordering Information

Part Number	Description	Quantity
48FCFM24J3M6-3X5C0	Rooftop Unit	5
	Base Unit	
	Condensate Overflow Switch	
	High Static Option - Vertical Models	
	Al/Cu - Al/Cu - Louvered Hail Guard	
	Hinged Access Panels and Powered Convenience Outlet	
	Non-Fused Disconnect	
	SystemVu controller, ULTRA LOW LEAK EconoMi$er2 enthalpy economizer with centrifugal power exhaust.	
Field Installed Accessories		
ZS2-H-CAR	ZS Standard	5
CRHUMDSN001B00	Outdoor or Return Air RH Sensor	5



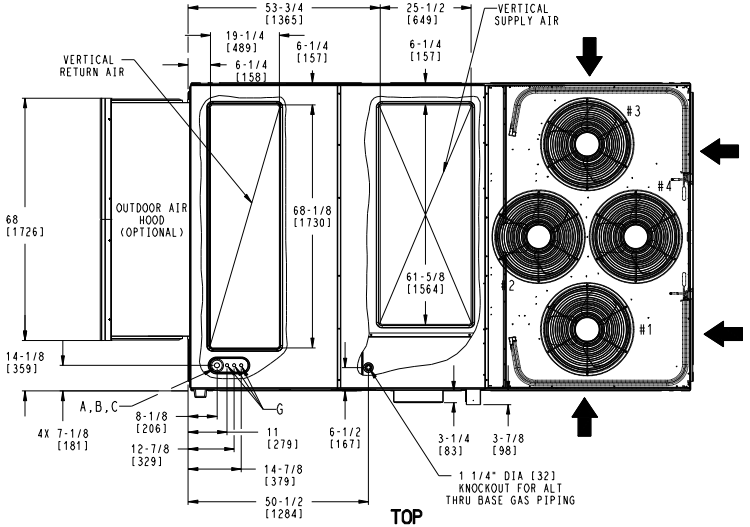
BACK

(PANELS REMOVED TO SHOW ECONOMIZER AND POWER EXHAUST OPTIONS)



LEFT

SHOWN WITH THE BAROMETRIC RELIEF OPTION INSTALLED



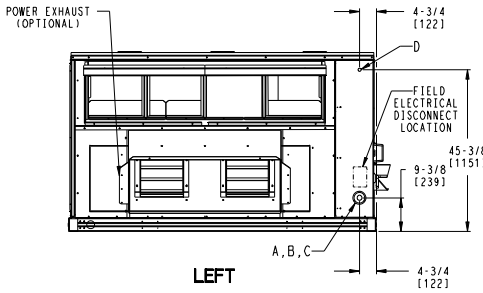
TOP

	CONNECTION SIZES
A	1 3/8" DIA [35] FIELD POWER SUPPLY KNOCKOUT
B	3" DIA [76] FIELD POWER SUPPLY KNOCKOUT
C	3 5/8" DIA [92] FIELD POWER SUPPLY KNOCKOUT
D	7/8" DIA [22] FIELD CONTROL WIRING HOLE
F	3/4"-14 NPT GAS CONNECTION (NOT SHOWN)
G	7/8" DIA [22] FIELD CONTROL WIRING KNOCKOUT

UNIT	H
24 SIZE	49-3/8 [1253]
28 SIZE	57-3/8 [1456]

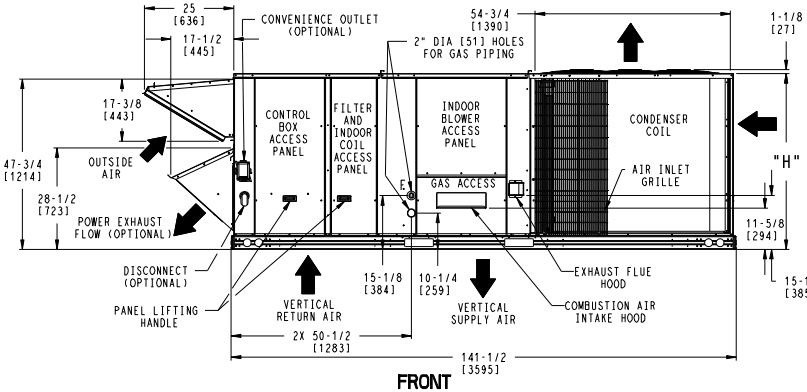
NOTES:

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

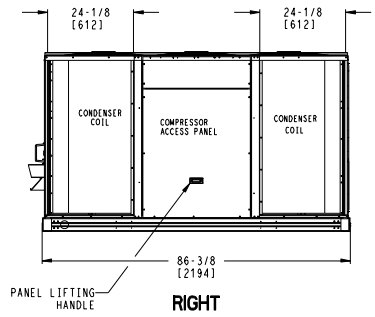


LEFT

SHOWN WITH THE POWER EXHAUST OPTION INSTALLED



FRONT



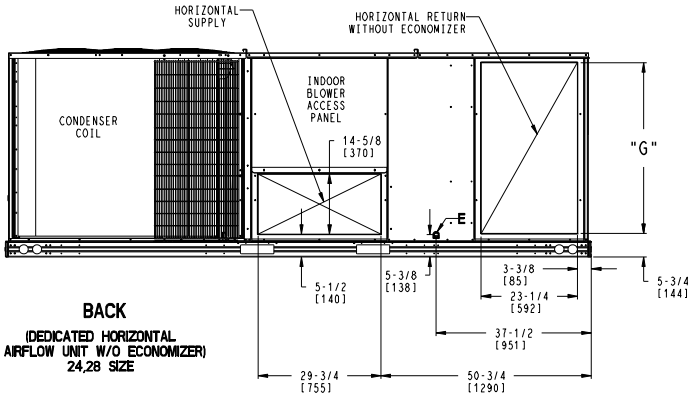
RIGHT

DEDICATED VERTICAL AIRFLOW UNIT 24,28 SIZE

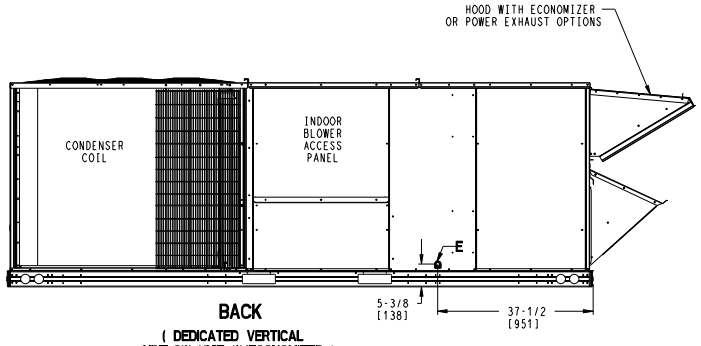
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 24,28 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT		REV
U.S. ECCN:NSR	1 OF 5	02/10/22	-		50HE003872	-

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

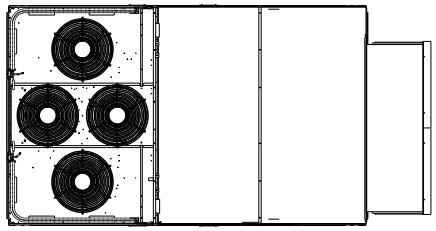
UNIT	G
24 SIZE	41-3/8 [1049]
28 SIZE	49-1/4 [1251]



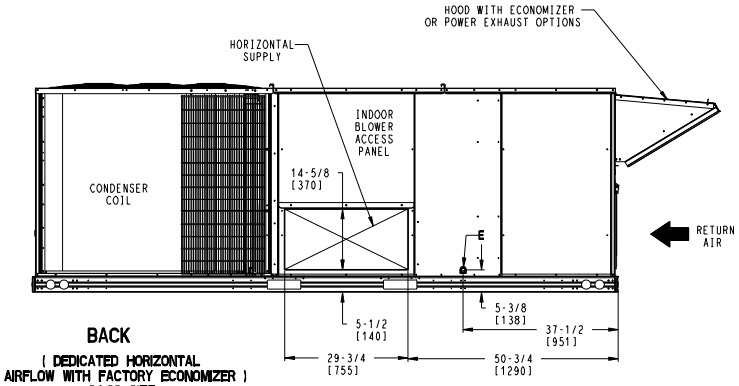
BACK
(DEDICATED HORIZONTAL AIRFLOW UNIT W/O ECONOMIZER)
24,28 SIZE



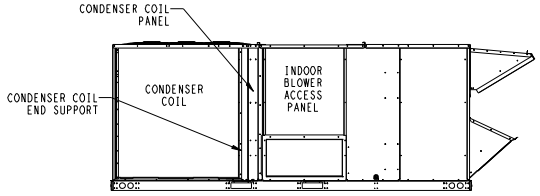
BACK
(DEDICATED VERTICAL AIRFLOW UNIT W/ECONOMIZER)
24,28 SIZE



28 SIZE CONDENSER COIL TOP VIEW



BACK
(DEDICATED HORIZONTAL AIRFLOW WITH FACTORY ECONOMIZER)
24,28 SIZE

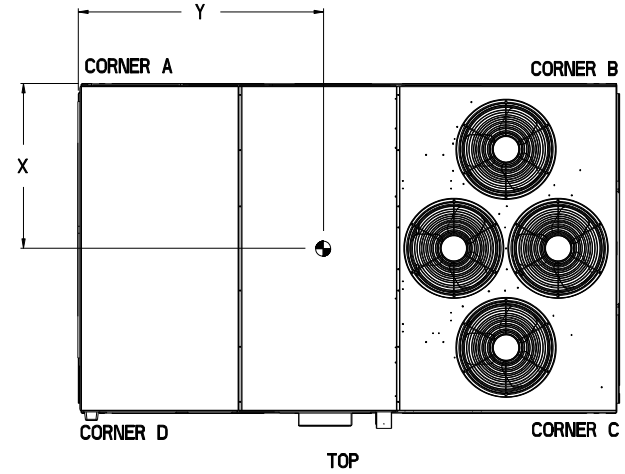


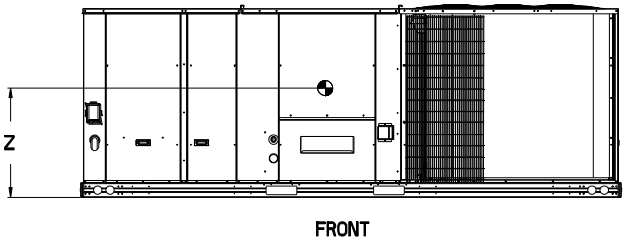
28 SIZE CONDENSER COIL END BRACKET SUPPORT

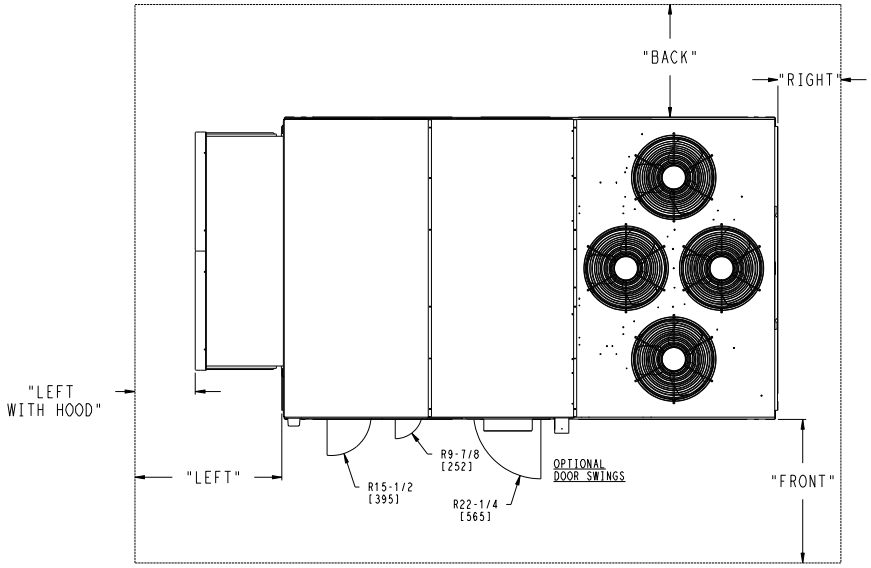
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	48FC 24,28 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT		REV
U.S. ECCN:NSR	3 OF 5	02/10/22	-		50HE003872	-

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
48FC24	2000	907	429	195	505	229	576	261	489	222	76 1/2 [1943]	46 [1168]	16 1/2 [419]
48FC28	2174	986	458	208	583	264	634	288	498	226	79 1/4 [2013]	45 [1143]	19 [483]

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





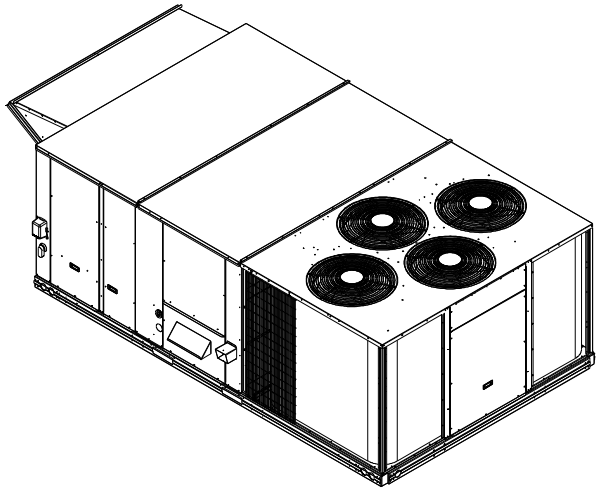


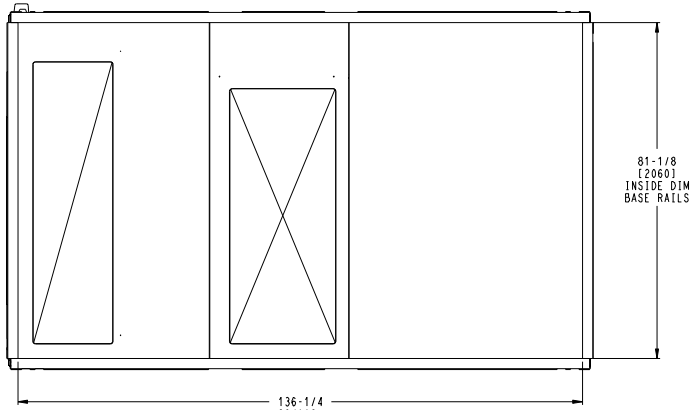
NOTES:

1. CLEARANCE ABOVE THE UNIT TO BE 72"
2. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

	CLEARANCE		
	SERVICE WITH:	SERVICE WITH:	OPERATING
SURFACE	CONDUCTIVE BARRIER	NONCONDUCTIVE BARRIER	CLEARANCE
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]

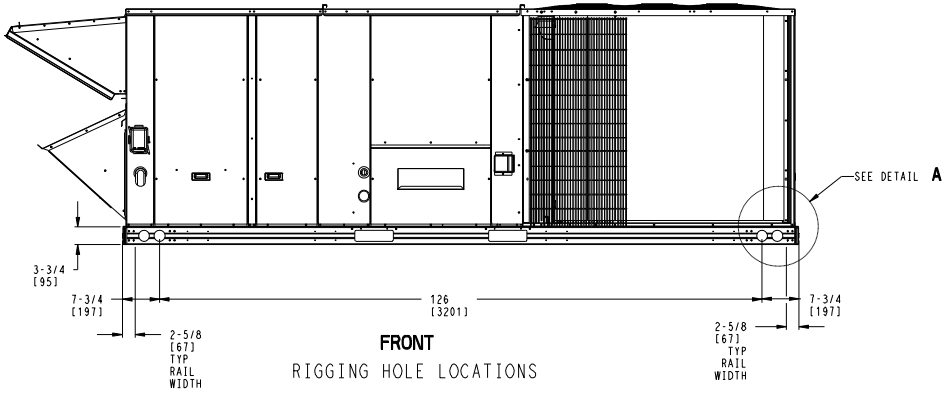
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN:NSR	4 OF 5	02/10/22	-	48FC 24,28 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50HE003872	-





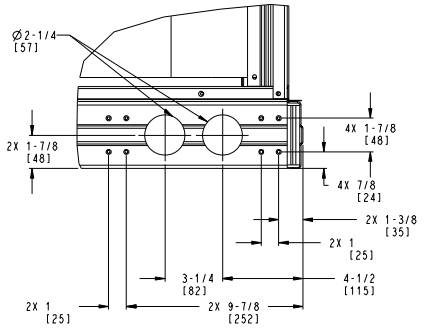
BOTTOM

INSIDE BASERAIL DIMENSIONS



FRONT

RIGGING HOLE LOCATIONS



DETAIL **A**
TYP 4 PLCS

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN:NSR	5 OF 5	02/10/22	-	48FC 24,28 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	50HE003872	-

Part Number:48FCFM24J3M6-3X5C0

ARI EER:	**10.00**	
Application EER (Rooftop Unit only):	**10.37**	
IEER:	**14.5**	

Base Unit Dimensions

Unit Length:	**141.5**	in
Unit Width:	**86.4**	in
Unit Height:	**47.8**	in

Operating Weight

Base Unit Weight:	**1873**	lb
High Heat:	**42**	lb
Condensate Overflow Switch:	**5**	lb
High Static Option - Vertical Models:	**30**	lb
Al/Cu - Al/Cu - Louvered Hail Guard:	**90**	lb
SystemVu Controller:	**2**	lb
Enthalpy Ultra Low Leak Econo w/PE (cent) - Vertical Air Only:	**443**	lb
Hinged Access Panels and Powered Convenience Outlet:	**37**	lb
Non-Fused Disconnect:	**15**	lb
Total Operating Weight:	**2537**	lb

Unit

Unit Voltage-Phase-Hertz:	**460-3-60**	
Air Discharge:	**Vertical**	
Fan Drive Type:	**Vane Axial**	
Actual Airflow:	**8000**	CFM
Site Altitude:	**0**	ft

Cooling Performance

Condenser Entering Air DB:	**95.0**	F
Evaporator Entering Air DB:	**80.0**	F
Evaporator Entering Air WB:	**67.0**	F
Entering Air Enthalpy:	**31.44**	BTU/lb
Evaporator Leaving Air DB:	**58.6**	F
Evaporator Leaving Air WB:	**56.9**	F
Evaporator Leaving Air Enthalpy:	**24.32**	BTU/lb
Unit Discharge Air DB:	**59.8**	F
Unit Discharge Air WB:	**57.4**	F
Unit Discharge Air Enthalpy:	**24.61**	BTU/lb
Gross Cooling Capacity:	**256.07**	MBH
Net Cooling Capacity:	**245.66**	MBH
Gross Sensible Capacity:	**184.89**	MBH
Net Sensible Capacity:	**174.48**	MBH
Compressor Power Input:	**20.65**	kW
Coil Bypass Factor:	**0.113**	

Heating Performance

Heating Airflow:	**8000**	CFM
Entering Air Temp:	**70.0**	F
Leaving Air Temp:	**107.5**	F
Gas Heating Input Capacity:	**320.0 / 400.0**	MBH
Gas Heating Output Capacity:	**260.0 / 324.0**	MBH
Temperature Rise:	**37.5**	F
Thermal Efficiency (%):	**81.0**	

Supply Fan

External Static Pressure:	**0.50**	in wg
Options / Accessories Static Pressure		
Economizer:	**0.08**	in wg
Power Exhaust:	**(Fan Data Includes Drop)**	
Application External Static (ESP + Unit Opts/Acc.):	**0.58**	in wg
Fan RPM:	**1718**	
Fan Power:	**3.58**	BHP

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

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

Power Exhaust

Return Duct Static: ..... **0.40** in wg
Max. Air to Exhaust: ..... **4590** CFM

Electrical Data

Voltage Range: ..... **414 - 506**
Compressor #1 RLA: **16**
Compressor #1 LRA: **140**
Compressor #2 RLA: **16**
Compressor #2 LRA: **140**
Indoor Fan Motor Type: ..... **HIGH**
Indoor Fan Motor FLA (Total): **5.6**
Combustion Fan Motor FLA (ea): **0.3**
Power Supply MCA: **59.2**
Power Supply MOCP (Fuse or HACR): **70**
Disconnect Size FLA: **63**
Disconnect Size LRA: **318**
Electrical Convenience Outlet FLA (based on unit line voltage): **2.2**
Power Exhaust [Motor Qty / FLA(ea motor)]: ..... **2 / 3.1**
Outdoor Fan [Qty / FLA (ea)]: ..... **4 / 0.9**
NOTE: Convenience outlet must be field connected to the line/load side of the unit disconnect per local code.

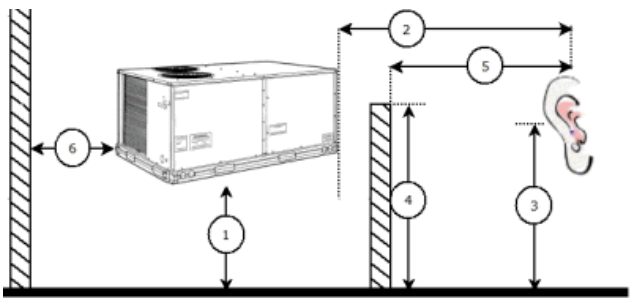
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	90.4	77.7	95.6
125 Hz	89.5	71.2	87.5
250 Hz	88.8	68.9	84.2
500 Hz	80.9	65.6	84.2
1000 Hz	79.9	66.6	81.7
2000 Hz	77.0	59.6	77.9
4000 Hz	72.4	50.5	73.2
8000 Hz	62.2	41.6	66.3
A-Weighted	85.8	69.6	87.0

Advanced Acoustics



Advanced Accoustics Parameters

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

Performance Summary For RTU 1-5

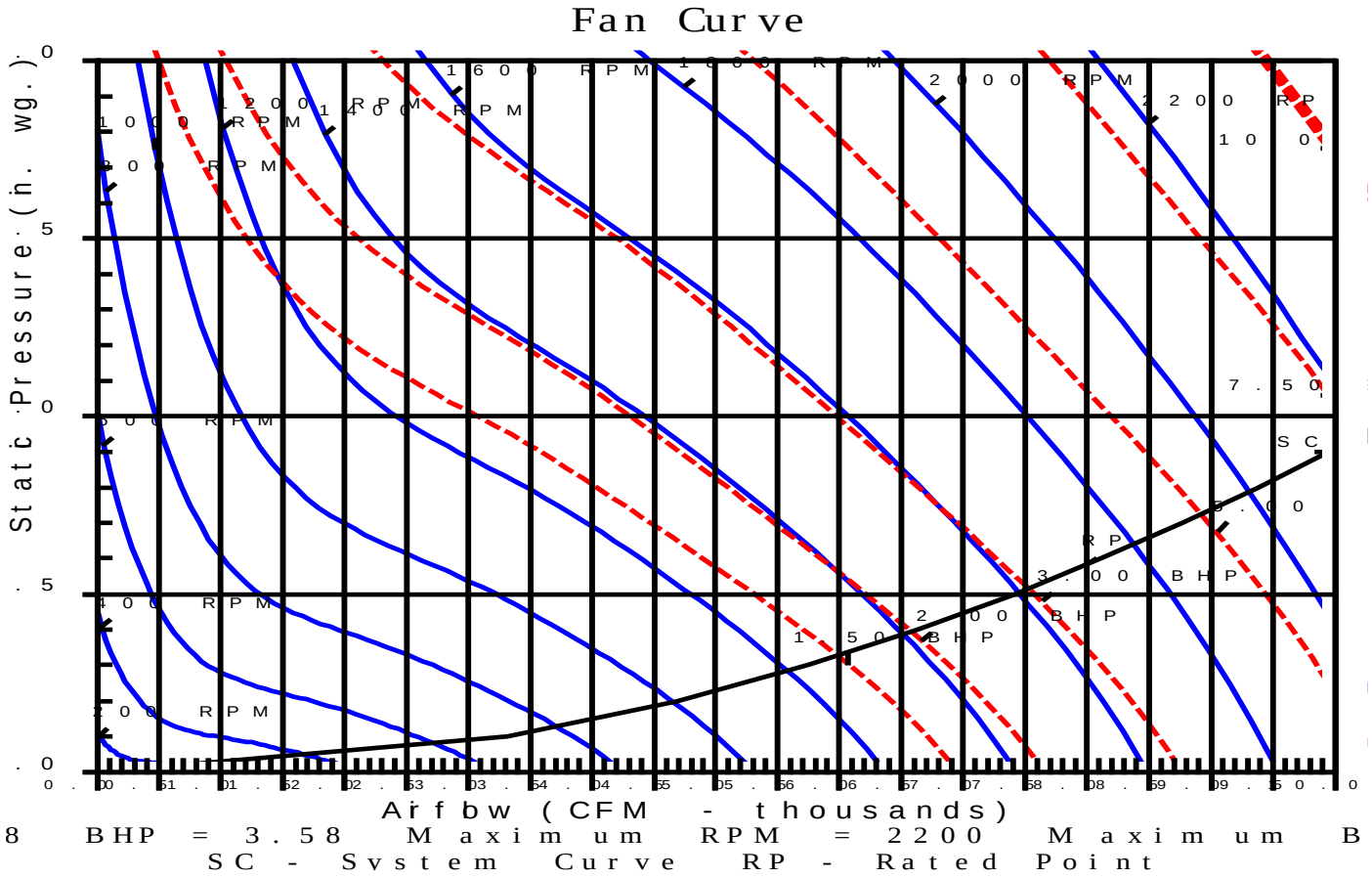
Project: BCF 1492 - El Paso, TX 08-22-2024
Prepared By: 03:23PM

Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	95.6	87.5	84.2	84.2	81.7	77.9	73.2	66.3	96.9 Lw
B	69.4	71.4	75.6	81.0	81.7	79.1	74.2	65.2	86.5 LwA
C	63.2	55.1	51.8	51.8	49.3	45.5	40.8	33.9	64.5 Lp
D	37.0	39.0	43.2	48.6	49.3	46.7	41.8	32.8	54.1 LpA

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

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: BCF 1492 - El Paso, TX 08-22-2024
Prepared By: 03:23PM

Unit Parameters

Unit Model: **48GCFJ06J3M6-3W5F0**
Unit Size: ..... **06 (5 Tons)**
Volts-Phase-Hertz: **460-3-60**
Heating Type: ..... **Gas**
Heat Control: ..... **High Gas Heat**
Duct Cfg: ..... **Vertical Supply / Vertical Return**
DX Options: ..... **Two Stage Cooling Models**

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

Unit Length: ..... **6' 2.375"**
Unit Width: ..... **3' 10.625"**
Unit Height: ..... **3' 5.375"**
Total Operating Weight: ..... **768** 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.

Unit Configuration

Condensate Overflow Switch
Direct Drive - EcoBlue - High Static
Al/Cu - Al/Cu - Louvered Hail Guards
SystemVu Controls
Enthalpy Ultra Low Leak Econo w/Baro Relief
Hinged Panels, Powered Convenience Outlet
Non-Fused Disconnect and Thru-The-Base Connections
Standard Packaging

Warranty Information

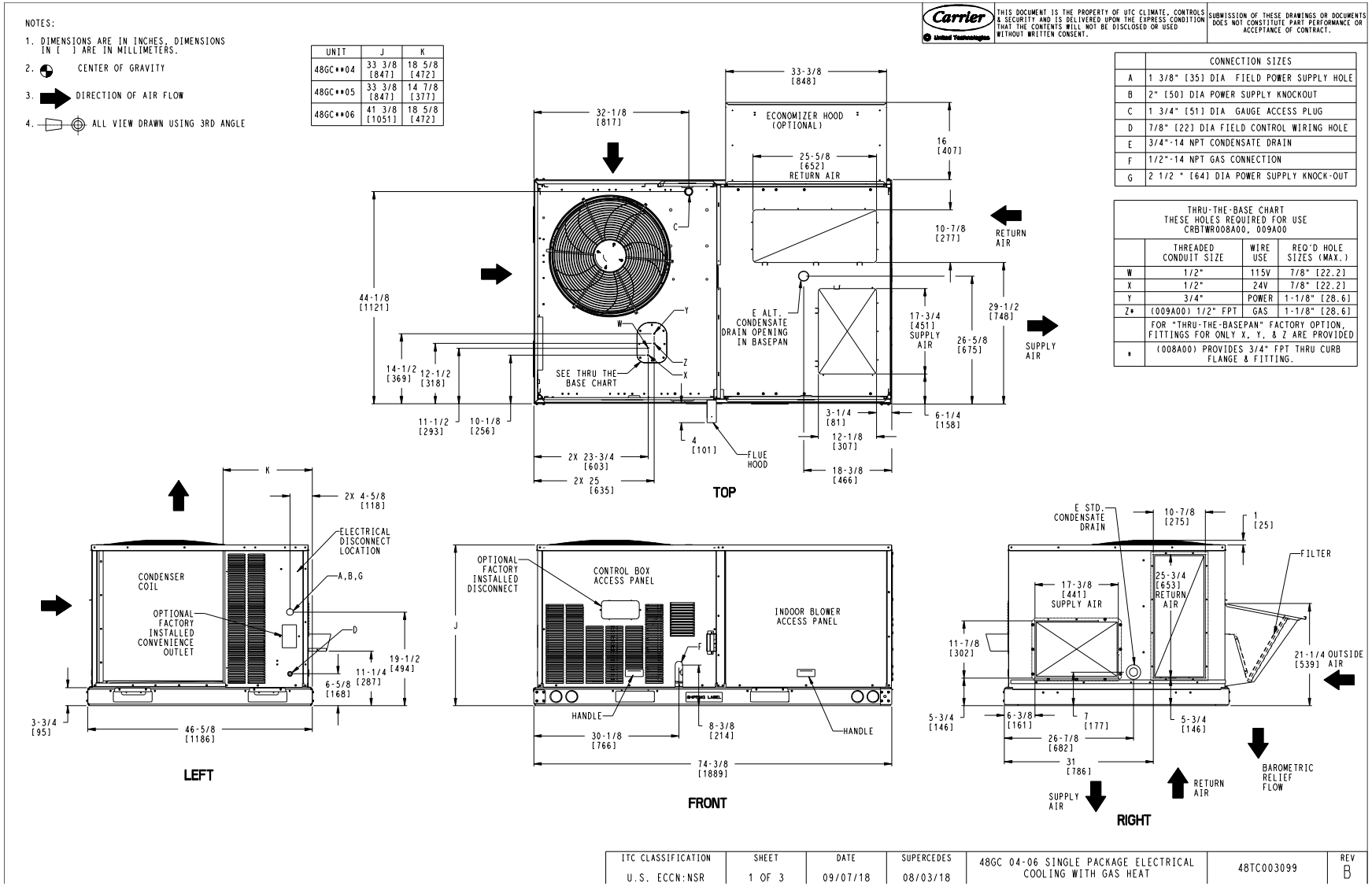
1-Year parts(std.)
5-Year compressor parts(std.)
10-Year heat exchanger - Aluminized(std.)
3-Year SystemVu

No optional warranties were selected.

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

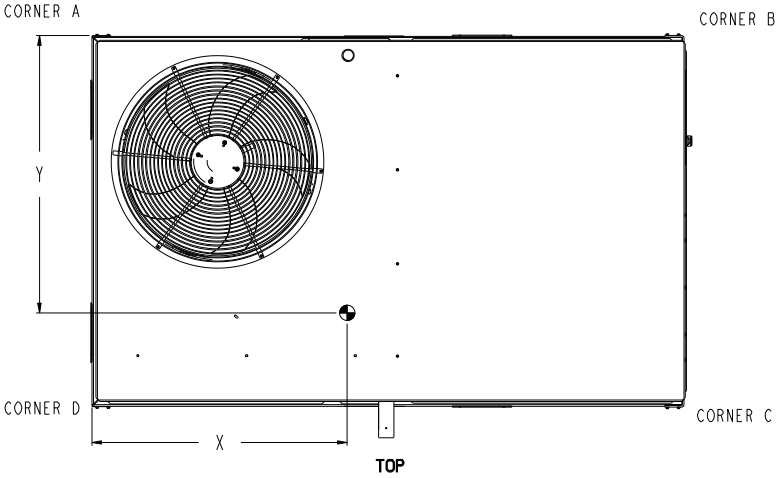
Ordering Information

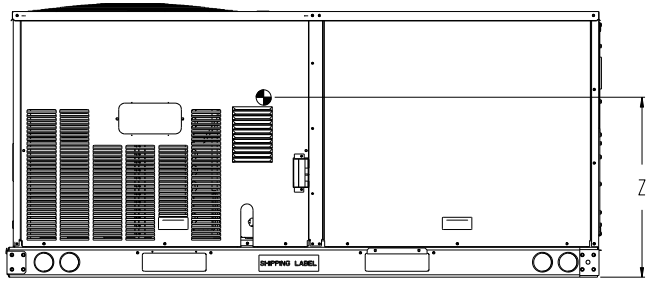
Part Number	Description	Quantity
48GCFJ06J3M6-3W5F0	Rooftop Unit	1
	Base Unit	
	Condensate Overflow Switch	
	Direct Drive - EcoBlue - High Static	
	Al/Cu - Al/Cu - Louvered Hail Guards	
	Hinged Panels, Powered Convenience Outlet	
	Non-Fused Disconnect and Thru-The-Base Connections	
	Ultra Low Leak Enthalpy EconoMi$er2 with barometric relief	
Field Installed Accessories		
ZS2-H-BNK	ZS Standard	1
CRHUMDSN001B00	Outdoor or Return Air RH Sensor	1

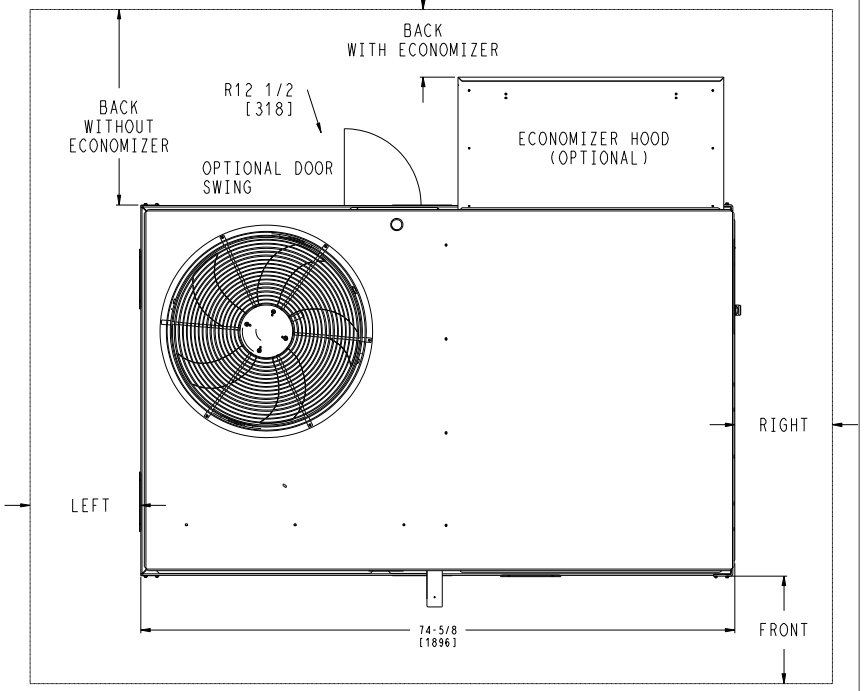

NOTES:
1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW
4. ALL VIEW DRAWN USING 3RD ANGLE
THIS DOCUMENT IS THE PROPERTY OF UTC CLIMATE, CONTROLS & SECURITY AND IS DELIVERED UPON THE EXPRESS CONDITION THAT THE CONTENTS WILL NOT BE DISCLOSED OR USED WITHOUT WRITTEN CONSENT.
SUBMISSION OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT.
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]
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.
33-3/8 [848]
32-1/8 [817]
ECONOMIZER HOOD (OPTIONAL)
25-5/8 [652] RETURN AIR
16 [407]
10-7/8 [277]
RETURN AIR
44-1/8 [1121]
E ALT. CONDENSATE DRAIN OPENING IN BASEPAN
17-3/4 [451] SUPPLY AIR
26-5/8 [675]
29-1/2 [748]
SUPPLY AIR
SEE THRU THE BASE CHART
14-1/2 [369]
12-1/2 [318]
11-1/2 [293]
10-1/8 [256]
3-1/4 [81]
12-1/8 [307]
6-1/4 [158]
4 [101]
FLUE HOOD
2X 23-3/4 [603]
2X 25 [635]
18-3/8 [466]
TOP
K
2X 4-5/8 [118]
ELECTRICAL DISCONNECT LOCATION
A,B,G
CONDENSER COIL
OPTIONAL FACTORY INSTALLED CONVENIENCE OUTLET
D
19-1/2 [494]
11-1/4 [287]
6-5/8 [168]
3-3/4 [95]
46-5/8 [1186]
LEFT
OPTIONAL FACTORY INSTALLED DISCONNECT
CONTROL BOX ACCESS PANEL
INDOOR BLOWER ACCESS PANEL
J
F
HANDLE
HANDLE
30-1/8 [766]
8-3/8 [214]
74-3/8 [1889]
FRONT
E STD. CONDENSATE DRAIN
10-7/8 [275]
1 [25]
FILTER
17-3/8 [441] SUPPLY AIR
25-3/4 [653] RETURN AIR
11-7/8 [302]
21-1/4 OUTSIDE [539] AIR
5-3/4 [146]
6-3/8 [161]
7 [177]
5-3/4 [146]
26-7/8 [682]
31 [786]
SUPPLY AIR
RETURN AIR
BAROMETRIC RELIEF FLOW
RIGHT
ITC CLASSIFICATION U.S. ECCN:NSR
SHEET 1 OF 3
DATE 09/07/18
SUPERCEDES 08/03/18
48GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT
48TC003099
REV B

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.





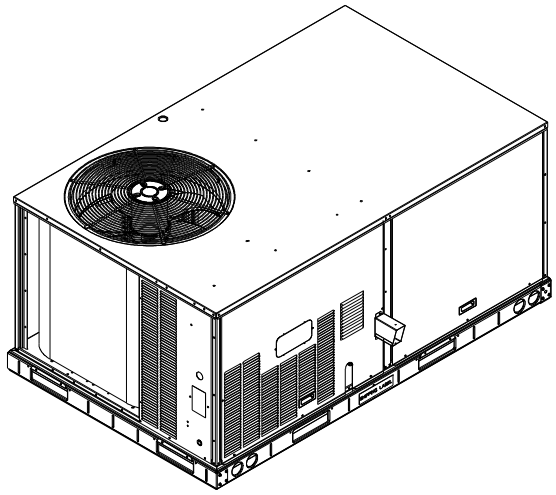


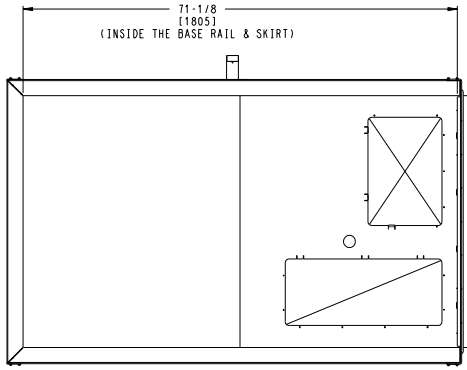
NOTES:

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

CLEARANCE			
	SERVICE WITH:	SERVICE WITH:	OPERATING
SURFACE	CONDUCTIVE BARRIER	NONCONDUCTIVE BARRIER	CLEARANCE
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]

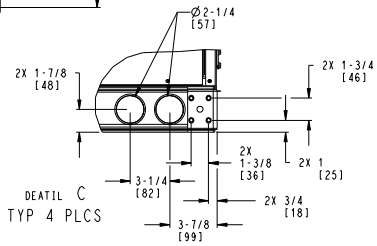
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN:NSR	2 OF 3	09/07/18	08/03/18	48GC 04-06 SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003099	B

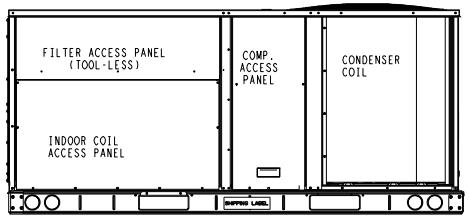




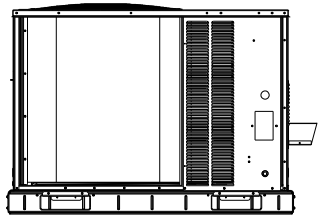
INSIDE BASERAIL DIMENSIONS

BOTTOM

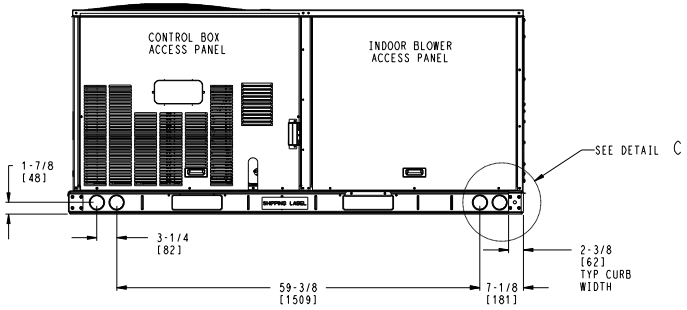




BACK



LEFT



FRONT

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

Part Number:48GCFJ06J3M6-3W5F0

ARI SEER:	**17.40**	
ARI SEER2:	**16.50**	
Application EER (Rooftop Unit only):	**11.61**	

Base Unit Dimensions

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

Operating Weight

Base Unit Weight:	**600**	lb
High Gas Heat:	**63**	lb
Condensate Overflow Switch:	**5**	lb
Direct Drive - EcoBlue - High Static:	**5**	lb
Al/Cu - Al/Cu - Louvered Hail Guards:	**17**	lb
SystemVu Controls:	**2**	lb
Enthalpy Ultra Low Leak Econo w/Baro Relief:	**35**	lb
Hinged Panels, Powered Convenience Outlet:	**36**	lb
Non-Fused Disconnect and Thru-The-Base Connections:	**5**	lb
Total Operating Weight:	**768**	lb

Unit

Unit Voltage-Phase-Hertz:	**460-3-60**	
Air Discharge:	**Vertical**	
Fan Drive Type:	**Vane Axial**	
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:	**58.3**	F
Evaporator Leaving Air WB:	**57.3**	F
Evaporator Leaving Air Enthalpy:	**24.57**	BTU/lb
Unit Discharge Air DB:	**59.5**	F
Unit Discharge Air WB:	**57.7**	F
Unit Discharge Air Enthalpy:	**24.86**	BTU/lb
Gross Cooling Capacity:	**61.81**	MBH
Net Cooling Capacity:	**59.23**	MBH
Gross Sensible Capacity:	**46.82**	MBH
Net Sensible Capacity:	**44.24**	MBH
Compressor Power Input:	**4.05**	kW
Coil Bypass Factor:	**0.083**	

Heating Performance

Heating Airflow:	**2000**	CFM
Entering Air Temp:	**70.0**	F
Leaving Air Temp:	**125.6**	F
Gas Heating Input Capacity:	**120.0 / 150.0**	MBH
Gas Heating Output Capacity:	**96.0 / 120.0**	MBH
Temperature Rise:	**55.6**	F
Thermal Efficiency (%):	**80.0**	

Supply Fan

External Static Pressure:	**0.50**	in wg
Options / Accessories Static Pressure		
Economizer:	**0.12**	in wg
Application External Static (ESP + Unit Opts/Acc.):	**0.62**	in wg
Fan RPM:	**2024**	
Fan Power:	**0.88**	BHP
NOTE:	**Selected IFM RPM Range: 1596 - 2836**	

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

Electrical Data

Voltage Range: ..... **414 - 506**
Compressor #1 RLA: **6.9**
Compressor #1 LRA: **55**
Indoor Fan Motor Type: ..... **HIGH**
Indoor Fan Motor FLA (Total): **2.9**
Combustion Fan Motor FLA (ea): **0.25**
Power Supply MCA: **16**
Power Supply MOCP (Fuse or HACR): **20**
Disconnect Size FLA: **15**
Disconnect Size LRA: **63**
Electrical Convenience Outlet: ..... **Yes**
Outdoor Fan [Qty / FLA (ea)]: ..... **1 / 1.4**
NOTE: Convenience outlet must be field connected to the line/load side of the unit disconnect per local code.

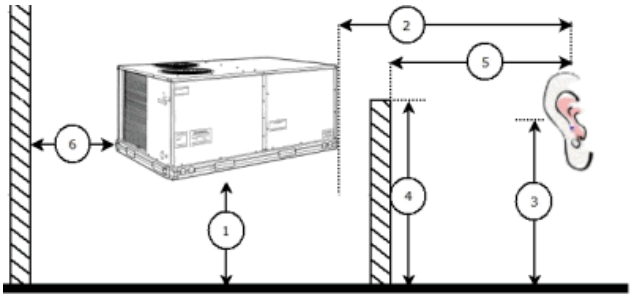
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	92.9	92.8	85.6
125 Hz	84.0	80.5	84.7
250 Hz	78.2	73.3	80.5
500 Hz	74.2	67.3	76.0
1000 Hz	71.0	69.1	72.4
2000 Hz	67.6	59.4	68.0
4000 Hz	64.7	53.9	62.8
8000 Hz	60.9	46.8	59.3
A-Weighted	77.6	73.5	79.0

Advanced Acoustics



Advanced Accoustics Parameters

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

Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	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

Performance Summary For RTU-6

Project: BCF 1492 - El Paso, TX
Prepared By:

08-22-2024
03:23PM

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.