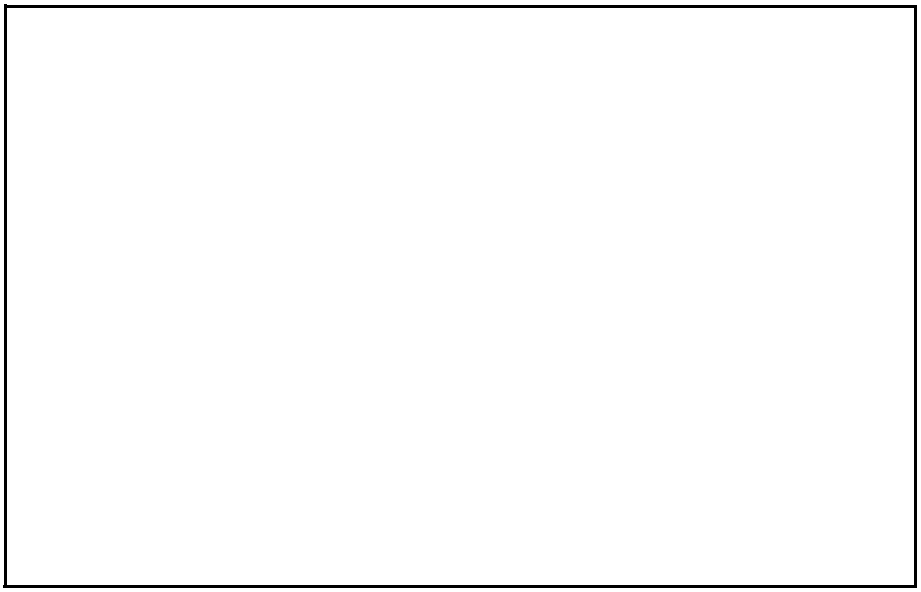
50FC 08-14 WEATHERMAKER® SERIES WITH ECOBLUE TECHNOLOGY ELECTRIC COOLING ROOFTOP UNITS WITH OPTIONAL ELECTRIC HEAT AND PURON® REFRIGERANT (R-410A)

ecoblue™ technology

— PERFORMANCE DATA

— CERTIFIED DIMENSION PRINTS

— CERTIFIED ROOF CURB DETAILS



JOB NAME:	LOCATION:	
BUYER:	BUYER PO #:	CARRIER#:
UNIT NUMBER:	MODEL NUMBER:	
PERFORMANCE DATA CERTIFIED BY:		

DESCRIPTION

50FC 08-14 size units are single-packaged electric cooling, units with optional field installed electric heat, or cooling only units that are pre-wired and pre-charged with Puron® (R-410A) HFC refrigerant. The units are fully factory tested. These units meet the upcoming DOE-2023 (Department of Energy) and ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1 Minimum Efficiencies. Models use Carriers leading Ecoblue™ Vane Axial Indoor Fan System with built in speed control and no fan belts or pullies. All models have two-stage cooling and single circuit design to provide maximum efficiency and comfort control.

FEATURES

Standard Base Unit

- Puron (R-410A) HFC refrigerant
- Two-stage/single-circuit cooling capacity control on all models
- IEER up to 15.2
- Exceeds current DOE IEER efficiencies while meeting DOEs new stringent 2023 IEER efficiency requirements
- DOE, ASHRAE 90.1, and IECC energy compliant
- NEW Direct Drive - EcoBlue™ Technology Indoor fan system uses Vane Axial fan design and electronically commutated motor. Indoor fan motor also delivers Staged Air Volume (SAV) fan speed control.
- Non-corrosive composite condensate pan in accordance with ASHRAE 62 Standard, sloping design; side or center drain
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Insulated cabinet
- Standard cooling operating range up to 125°F (52°C), except 14 size models with 115°F (46°C) and down to 40°F (–4°C). Low Ambient kits allows cooling operation down to 0°F (–18°C).
- Rated in accordance with AHRI Standards 340/360
- Designed in accordance with UL Standard 1995
- Listed by UL and CUL-Canada or ETL and ETL-Canada
- Two-inch disposable return air filters
- Tool-less filter access door
- 24-volt control circuit protected with resettable circuit breaker and 75va transformer
- Direct Drive - EcoBlue™ indoor fan system uses vane axial fan design and electronically commutated motor:
  - — Shall have inherent automatic-reset thermal overload protection
  - — Shall require no fan/motor belts for operation, adjustments, and/or initial fan speed setup
  - — Shall be internally protected from electrical phase reversal and phase loss
  - — Shall have slow ramp up to speed control capabilities to help reduce sound and comfort issues
  - — Shall be a slide-out design with simple screw removal
  - — Shall not require VFD fan speed control
- Central terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement
- Low pressure and high-pressure switch protection
- Mixed air temperature switch protects the compressors when a combination of outdoor air and return falls below unsafe compressor limits
- Permanently lubricated evaporator-fan motor
- Totally enclosed condenser motors with permanently lubricated bearings
- Large access panels with easy grip handles
- Innovative, easy starting, no-strip screw feature on unit access panels
- New Vane Axial evaporator-fan system has no fan belts, pullies, blower shaft and blower bearings with slide out design
- Field convertible from vertical to horizontal airflow configuration on all models.
- Provisions for thru-the-bottom power entry capability as standard
- Single point electric connections
- Full perimeter base rail with built-in rigging adapters and fork truck slots
- Highly protected tandem scroll compressors with internal line-break overload protection

Refrigerant System (All)

- TXV refrigerant metering system on all models
- Liquid line filter drier on each circuit
- Tandem scroll compressors with internal line-break overload protection
- Copper tube, aluminum fin evaporator coils
- Round Tube/Plate Fin (RTPF) coils on all models

Standard Limited Parts Warranty

- 5-year compressor parts
- 5-year electric heater
- 1-year parts
- 3-year parts SystemVu™ controller

PERFORMANCE DATA

Unit Operating Weight _____ lb

Curb Weight _____ lb

COOLING

Gross Total Capacity _____ Btuh

at Condenser Air Temperature _____ °F

Gross Sensible Capacity _____ Btuh

Compressor Power Input _____ kW

Indoor Entering: db _____ °F / wb _____ °F

Airflow _____ CFM External Static Pressure _____ in. wg

Indoor Fan Motor Size _____ HP

Exhaust Fan Motor Size _____ HP

HEATING (ELECTRIC)

Heating Capacity:

Stage 1 _____ Btuh

Stage 2 _____ Btuh

Heating Capacity Total _____ Btuh

Stage 1 _____ kW

Stage 2 _____ kW

Heating Capacity Total _____ kW

ELECTRICAL DATA

Power Supply to Unit _____

Volts _____

Phase _____ Hz

Maximum Circuit Amps _____

Maximum Overcurrent Protection _____

SUBMITTAL DATA

Job Name _____

Architect _____

Engineer _____

Contractor _____

Unit Designation _____

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.

FACTORY-INSTALLED OPTIONS

☐ **Economizer with DRY BULB Sensing and Barometric Relief**

Low Leak Air Dampers —

◯ Models with W7220 controller meet California Title 24-2016 (Section 120.2) for Fault Detection and Diagnostic (FDD) requirements (EconoMi$er X system).

◯ Models with SystemVu controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMi$er 2 system).

☐ **Economizer with ENTHALPY Sensing and Barometric Relief**

Low Leak Air Dampers —

◯ Models with W7220 controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMi$er X system).

◯ Models with SystemVu controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMi$er 2 system).

☐ **Economizer with DRY BULB Sensing and Barometric Relief**

ULTRA LOW LEAK Air Dampers —

◯ Models with W7220 controller meet California Energy Commission Title 24-2016 perspective section 140.4 (damper leakage, etc.) and mandatory section 120.2.i for Fault Detection and Diagnostic controls. Economizers meet ASHRAE 90.1-2016 damper leakage requirements as stated in section 6.5.1.1.4 and Table 6.4.3.4.3, and meet 2016 Fault Detection and Diagnosis requirements in section 6.4.3.12. For outside air, return, and relief air damper leakage requirements economizers meet IECC 2012 section C402.4.5.2 and, IECC 2015 sections C403.2.4.3 and C403.3.3.5 and IECC 2015 section C403.2.4.7 for Fault Detection and Diagnostic requirements.
NOTE: IECC 2015 section C403.2.4.7.1 requires differential return air sensor, which must be ordered separately.
Outside air, return air, and relief air (volume) dampers are AMCA rated — plus 5 year limited parts warranty (EconoMi$er X system).

◯ Models with SystemVu meet California Energy Commission Title 24-2016 perspective section 140.4 (damper leakage, etc.) and mandatory section 120.2.i for Fault Detection and Diagnostic requirements. Economizers meet ASHRAE 90.1-2016 damper leakage requirements as stated in section 6.5.1.1.4 and Table 6.4.3.4.3, and meet 2016 Fault Detection and Diagnosis requirements in section 6.4.3.12. Economizers meet IECC 2012 section C402.4.5.2 and, IECC 2015 sections C403.2.4.3 and C403.3.3.5 for outside air, return air, and relief air damper leakage requirements and IECC 2015 section C403.2.4.7 for Fault Detection and Diagnostic requirements.
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NOTE: IECC 2015 section C403.2.4.7.1 requires differential return air sensor, which must be ordered separately.
Outside air, return air, and relief air (volume) dampers are AMCA rated — plus 5 year limited parts warranty (EconoMi$er 2 system).

FACTORY-INSTALLED OPTIONS (CONT)

Standard Base Unit

Factory Options

☐ SystemVu™ controls that include:

— Large full text - multi line display

— USB Flash Port for data transfer

— Built in i-Vu®, CCN and BACnet[1]

— Refrigerant pressure from display

— Quick LED Status - Run, Alert, Fault

— Conventional stat or sensor capabilities

— Historical component runtime and starts

— Supply air tempering

— Equipment Touch™/System Touch™ compatibility

— Demand limiting and ZS sensor compatibility

☐ Through the base connectors for gas and electric conduit/piping

☐ Humidi-MiZer® adaptive dehumidification system

☐ Non-fused disconnect

☐ Powered 115-volt convenience outlet

☐ Non-powered 115-volt convenience outlet

☐ High static evaporator fan motor

☐ Return Air smoke detector

☐ Supply Air smoke detector

☐ CO_2 sensor

☐ Condenser hail guard-louvered style

☐ Special coating protection for evaporator and condenser coils

☐ Hinged access doors

☐ Condensate overflow switch

Optional Warranties

☐ Complete unit parts only, up to 5 years

☐ Complete unit parts and labor, up to 5 years

Many other optional warranties are available. See the Commercial Start-Up and Optional Extended Warranty Price pages for further information.

1. BACnet is a trademark of ASHRAE.

FIELD-INSTALLED ACCESSORIES

☐ **Economizer with DRY BULB Sensing and Barometric Relief**

Standard Leak Air Dampers —

◯ Models with W7212 controller provide standard non-diagnostic control. EconoMi$er® IV.

◯ Models with W7220 controller meet California Title 24-2016 Section 120.2.i for Fault Detection and Diagnostic (FDD) requirements. EconoMi$er X.

◯ Models with SystemVu controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirements. EconoMi$er 2.

☐ **Economizer with ENTHALPY Sensing and Barometric Relief**

Standard Leak Air Dampers —

◯ Models with W7212 controller provide standard non-diagnostic control. EconoMi$er IV.

◯ Models with W7220 controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirements. EconoMi$er X.

◯ Models with SystemVu controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirements. EconoMi$er 2.

☐ **Economizer with DRY BULB Sensing and Barometric Relief**

ULTRA LOW LEAK Air Dampers —

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Outside air, return air, and relief air (volume) dampers are AMCA rated.

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NOTE: IECC 2015 section C403.2.4.7.1 requires differential return air sensor, which must be ordered separately.
Outside air, return air, and relief air (volume) dampers are AMCA rated.

FIELD-INSTALLED ACCESSORIES (CONT)

- ☐ Prop fan power exhaust
- ☐ Two-position motorized outdoor air damper
- ☐ Manual outside air damper 25%
- ☐ Manual outside air damper 50%
- ☐ Roof Curb — 14 inch (356 mm) tall
- ☐ Roof Curb — 24 inch (610 mm) tall
- ☐ Thru-the-bottom connections (electrical only)
- ☐ Electric heat and single point kits
- ☐ Condenser hail guard (louvered style)
- ☐ Phase monitor (loss of phase/phase reversal)
- ☐ Winter start kit, down to 0°F (–18°C)
- ☐ Low ambient head pressure controller, down to 0°F (–18°C)
- ☐ Time Guard II compressor anti-cycle protection
- ☐ Thermostats and Sensors
- ☐ Condensate overflow switch
- ☐ Non-powered 115-volt (20 amp) convenience outlet
- ☐ Side access hinged filter door kit
- ☐ Horn/strobe annunciator

<u>Economizer Sensors</u>

- ☐ Single Dry bulb control
- ☐ Differential Dry bulb control
- ☐ Single enthalpy control
- ☐ Differential enthalpy control
- ☐ CO_2 — wall mounted
- ☐ CO_2 — duct mounted
- ☐ CO_2 — unit mounted

CERTIFIED DIMENSION PRINT

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
50FC-M08	RTPF	41 1/4 [1048]	33 3/4 [857]	15 7/8 [403]
50FC-M09	RTPF	49 3/8 [1253]	36 3/8 [925]	15 7/8 [403]
50FC-M12	RTPF	49 3/8 [1253]	36 3/8 [925]	15 7/8 [403]

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

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

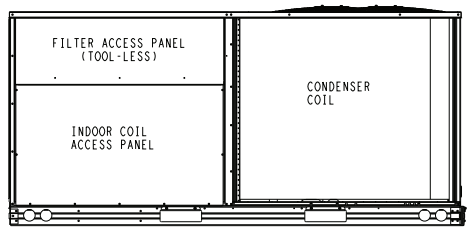
THRU-THE-BASE CHART (FIELD INST)

THESE HOLES REQUIRED FOR USE WITH ACCY KITS: CRBTMPWR002A01

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

THRU-THE-BASE CHART (FIOP)

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



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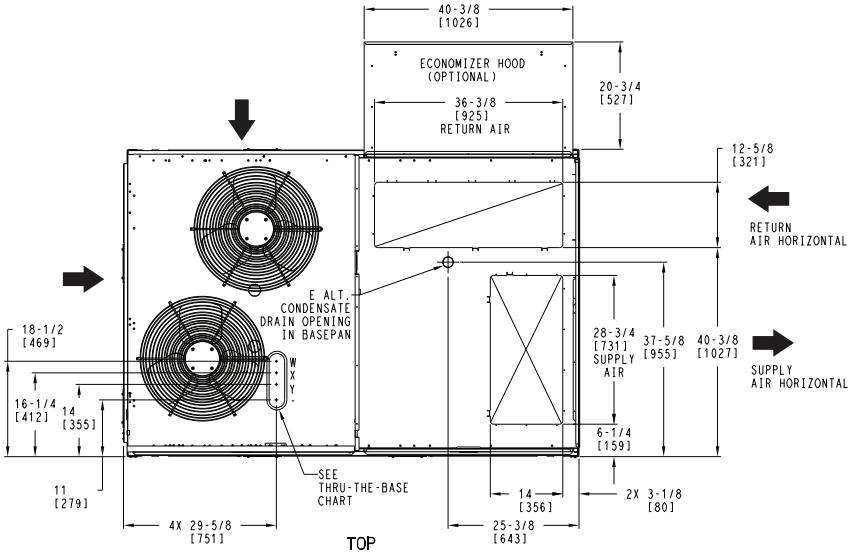

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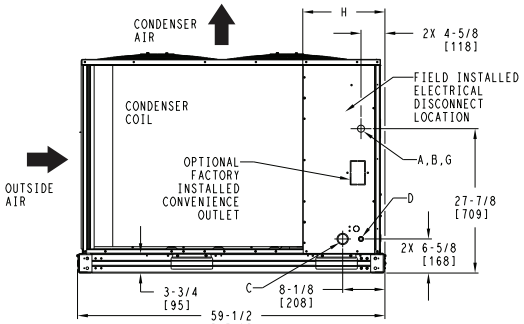

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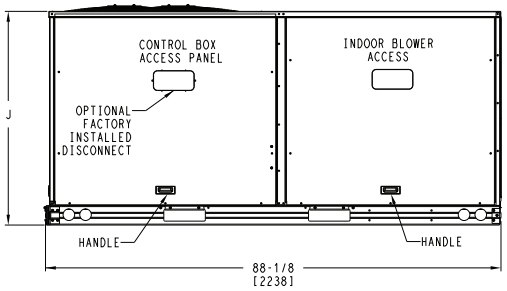

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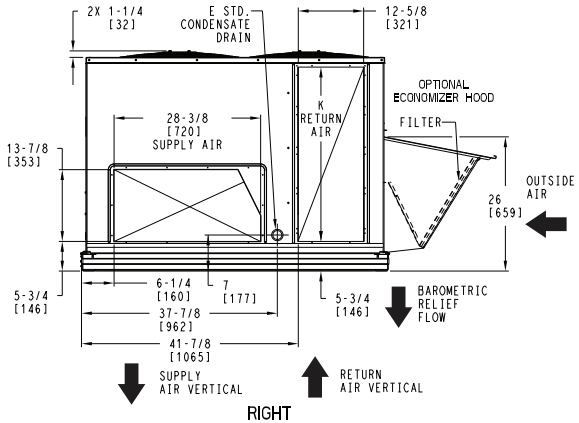


RIGHT

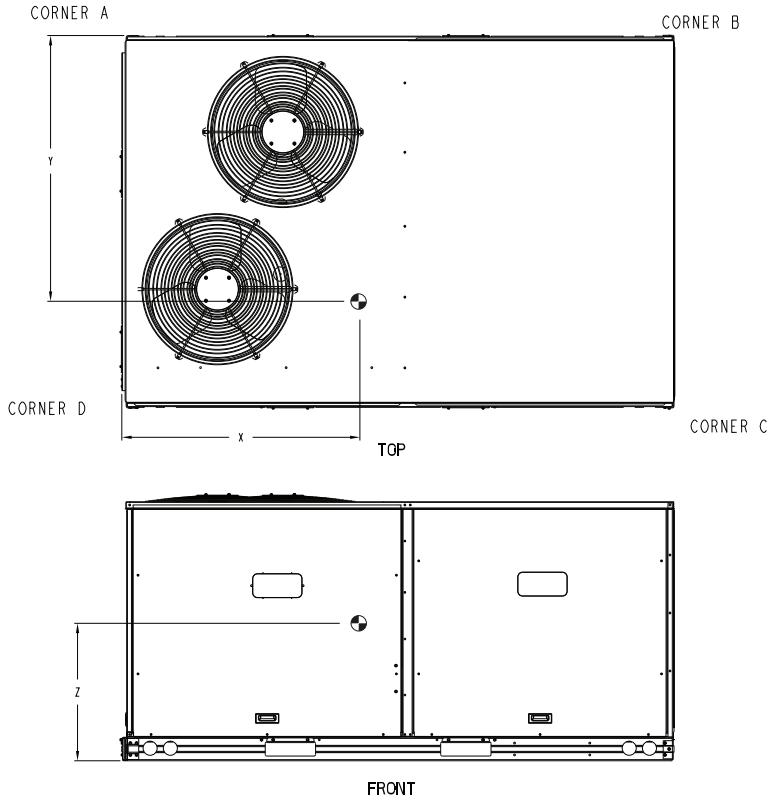
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN:NSR	1 OF 3	03/12/21	-	50FC 08-12 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TM006296	-

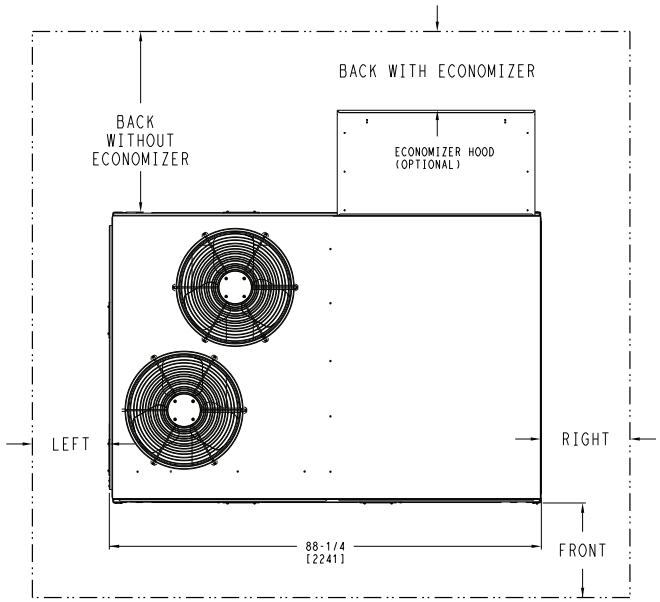
Fig. 1 — 50FC08-12 Dimensional Drawing**

CERTIFIED DIMENSION PRINT

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
50FC-M08	RTPF	743	337	170	77	142	64	196	89	235	107	40 [1016]	34 1/2 [838]	20 [508]
50FC-M09	RTPF	805	365	196	89	251	114	201	91	157	71	49 1/2 [1257]	26 1/2 [673]	19 1/8 [486]
50FC-M12	RTPF	815	370	198	90	254	115	204	92	159	72	49 1/2 [1257]	26 1/2 [673]	19 1/8 [486]
RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)														

*** STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC 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.

	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 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]

Carrier

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES			REV
U.S. ECCN:NSR	2 OF 3	03/12/21	-	50FC 08-12 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TM006296	-

Fig. 1 — 50FC08-12 Dimensional Drawing (cont)**

CERTIFIED DIMENSION PRINT

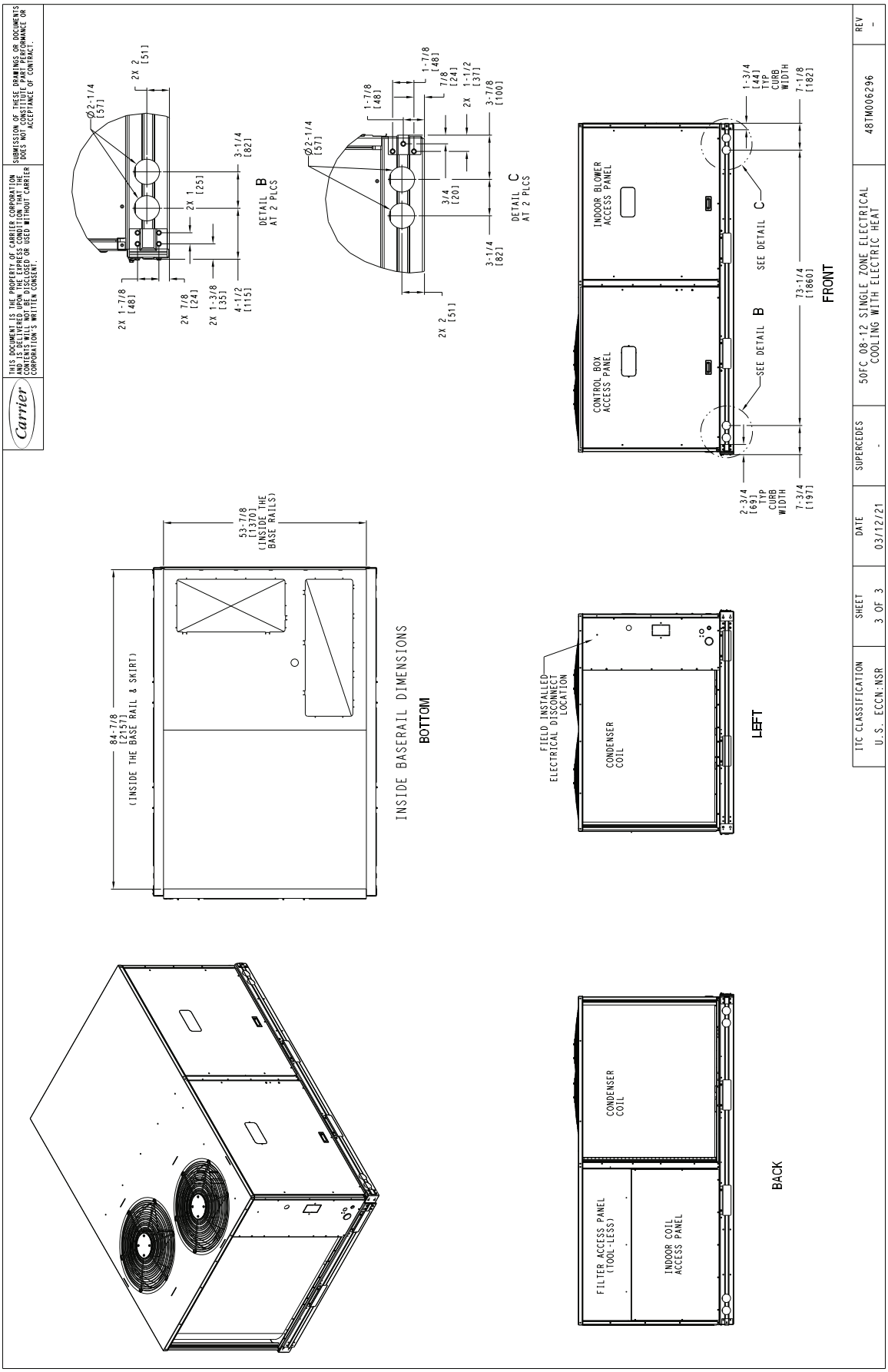


Fig. 1 — 50FC08-12 Dimensional Drawing (cont)**

CERTIFIED DIMENSION PRINT

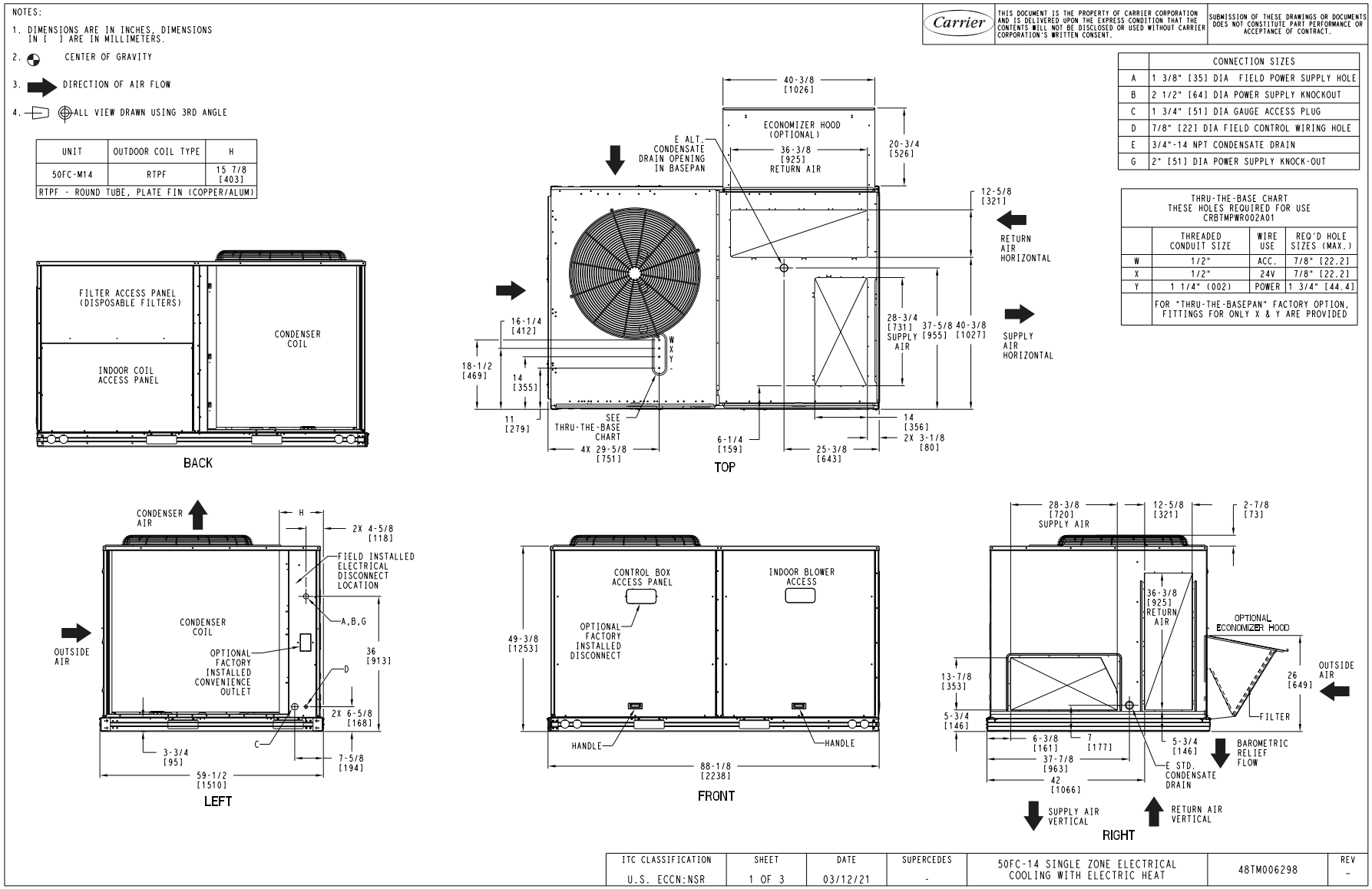
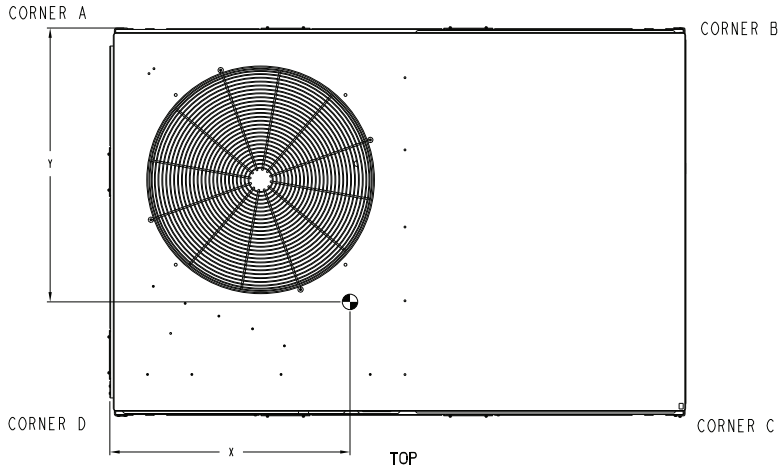


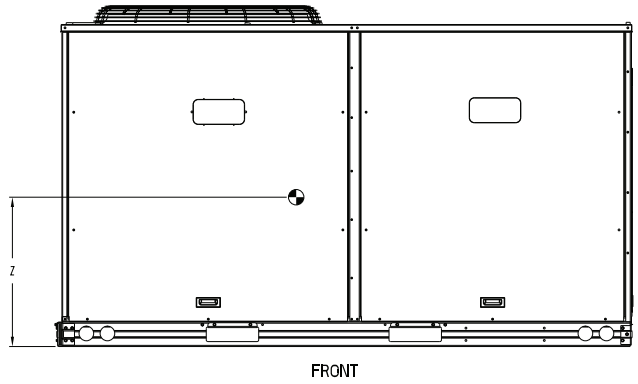
Fig. 2 — 50FC14 Dimensional Drawing**

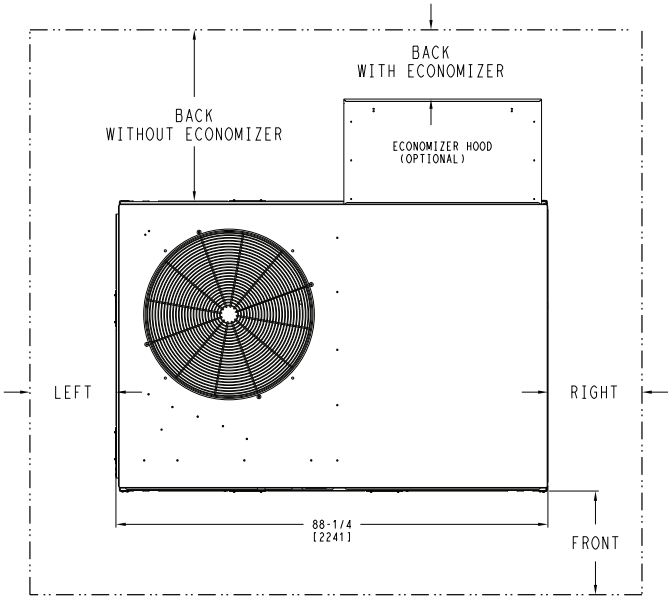
CERTIFIED DIMENSION PRINT

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
50FC-M14	RTPF	978	444	234	106	300	136	249	113	195	88	49 1/2 [1257]	27 [686]	20 1/2 [521]
RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)														

*** STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC 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.

	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 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			REV
U.S. ECCN:NSR	2 OF 3	03/12/21	-	50FC-14 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TM006298	-

Fig. 2 — 50FC14 Dimensional Drawing (cont)**

CERTIFIED DIMENSION PRINT

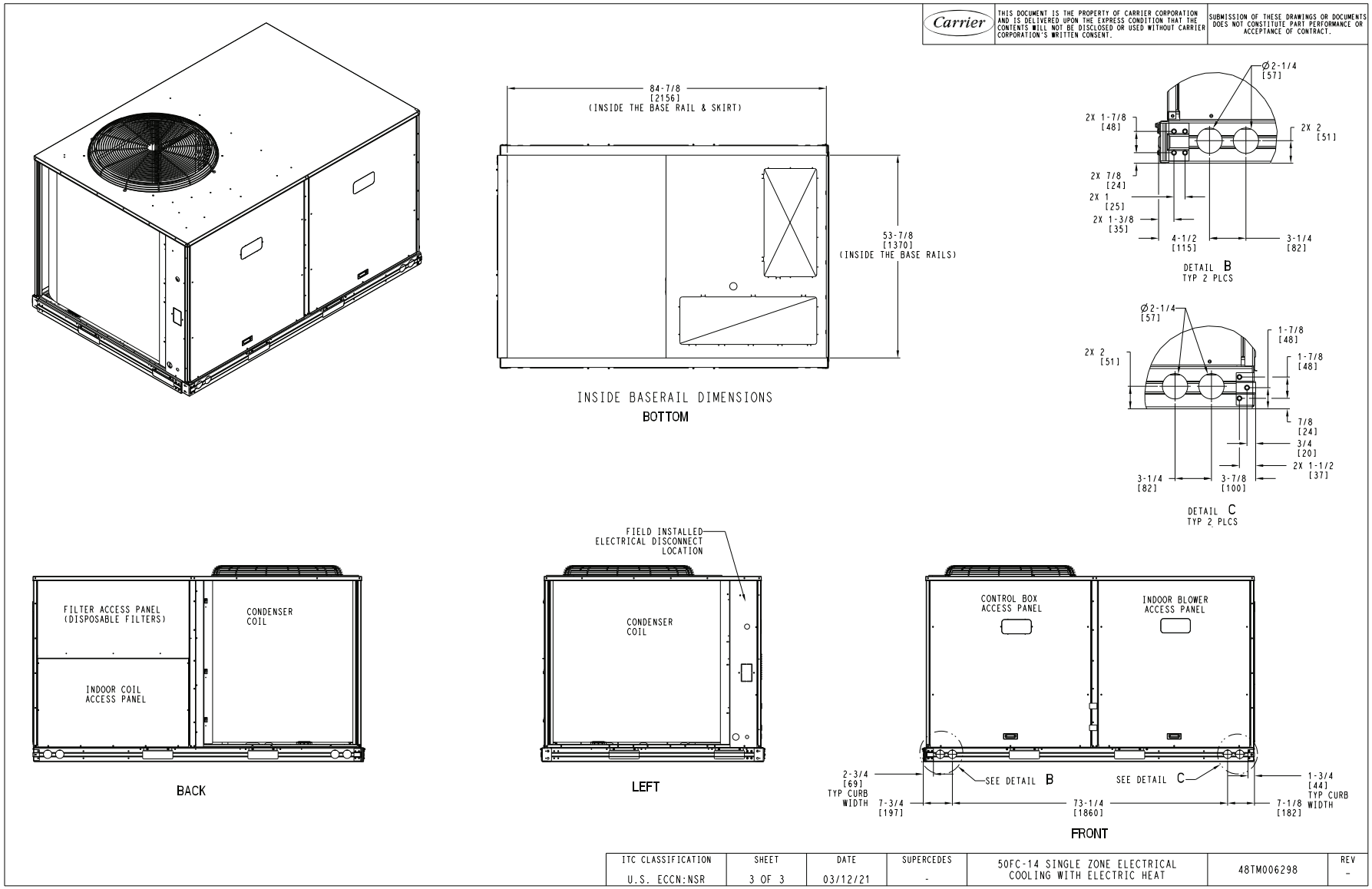


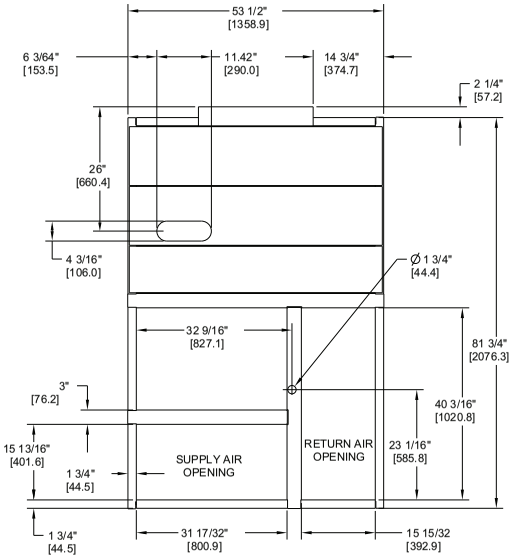
Fig. 2 — 50FC14 Dimensional Drawing (cont)**

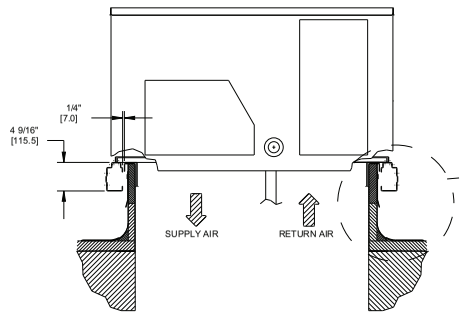
CERTIFIED ROOF CURB DETAILS

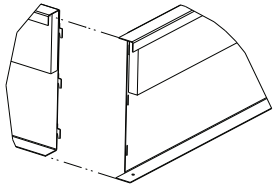
ROOF CURB ACCESSORY #	A
CRRFCURB003A01	14" [356]
CRRFCURB004A01	24" [610]

NOTES:
1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
2. INSULATED PANELS: 25.4 [1"] THK. POLYURETHANE FOAM, 44.5 [1-3/4] # DENSITY.
3. DIMENSIONS IN [ ] ARE IN MILLIMETERS.
4. ROOFCURB: 18 GAGE STEEL.
5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB).
6. SERVICE CLEARANCE 4 FEET ON EACH SIDE.
7. ▨ DIRECTION OF AIR FLOW.
8. CONNECTOR PACKAGE CRBTMPWR002A01 IS FOR THRU-THE-CURB GAS TYPE PACKAGE CRBTMPWR004A01 IS FOR THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

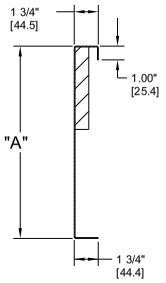
CONNECTOR PKG. ACC.	GAS CONNECTION TYPE	GAS FITTING	POWER WIRING FITTING	CONTROL WIRING FITTING	ACCESSORY CONVENIENCE OUTLET WIRING CONNECTOR
CRBTMPWR002A01	THRU THE CURB	3/4" [19] NPT	1 1/4" [31.7] NPT	1/2" [12.7] NPT	1/2" [12.7] NPT
CRBTMPWR004A01	THRU THE BOTTOM				



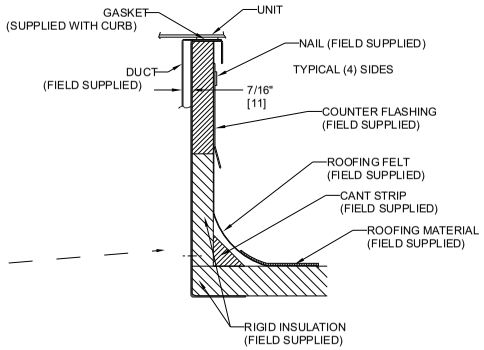


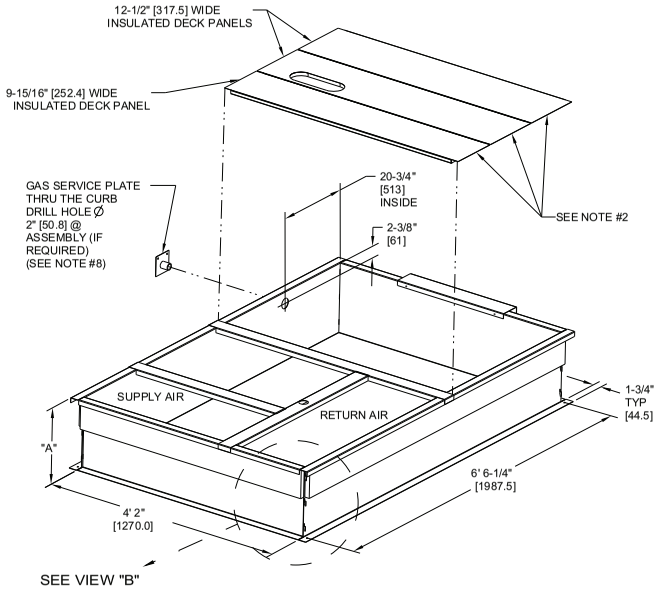


VIEW "B"
CORNER DETAIL



SECTION THRU SIDE





CERTIFIED DRAWING

REV	REVISION RECORD	DATE	BY	CHK'D	APP'D	ECN NO.
C	6' 61/4" WAS 6' 7 1/6", 4'2' WAS 4' 2 13/16"; 18 GA WAS 16 GA.; 15 13/16" WAS 15 15/16"; NAIL FIELD SUPPLIED WAS WITH CURB	4/22/13	MMC	-	-	1067898

DRAWING RELEASE LEVEL:	PRODUCTION		
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 1 DEC ± - 2 DEC ± - 3 DEC ± - ANG ± -	THIS DOCUMENT AND THE INFORMATION CONTAINED THEREIN IS PROPRIETARY TO CARRIER CORPORATION AND SHALL NOT BE USED OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF CARRIER CORPORATION.	
MATERIAL - - -	AUTHORIZATION NUMBER 1029120	TITLE CURB ASY, ROOF	
ENGINEERING REQUIREMENTS T-005, Y-002	ENGINEERING - MANUFACTURING -	SIZE D	DRAWING NUMBER 50HJ405012 SHEET 5 OF 5 REV C
WEIGHT: -	DRAFTER MMC 12/16/09 CHECKER -		
SURFACE FINISH -	MFG/PURCH PURCH	MODEL (INTERNAL USE ONLY)	NEXT DRAWING - SCALE N/A DISTRIBUTION -

Fig. 3 — 50FC08-14 Roof Curb Details**