



50TC 08-16 WEATHERMAKER® SERIES

SINGLE PACKAGE ROOFTOP

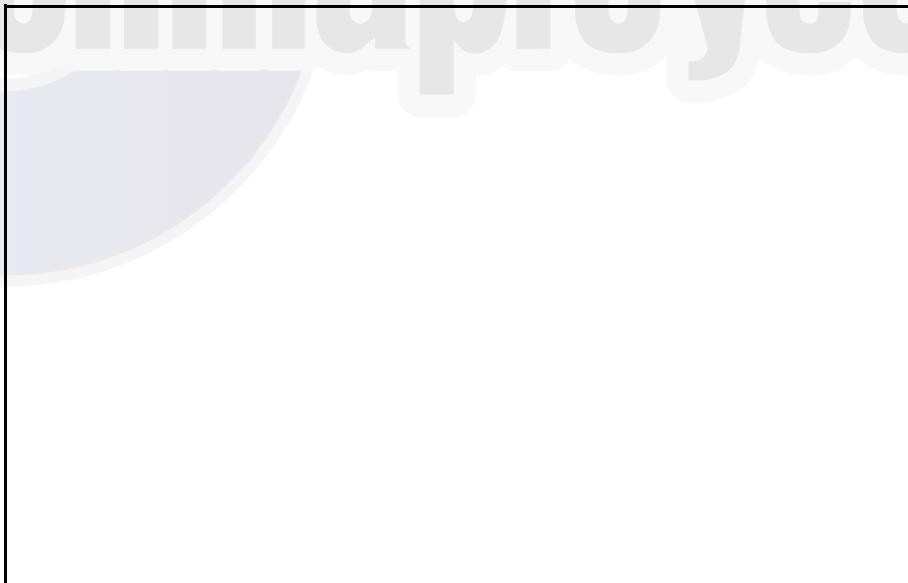
COOLING ONLY UNITS

TWO-STAGE/TWO-CIRCUIT AND

TWO-STAGE/ONE-CIRCUIT COOLING

CAPACITY CONTROL

- 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				
<p>50TC units are single-package electric cooling only units that are pre-wired and pre-charged with Puron® (R-410A) HFC refrigerant. Electric heat is available as a field-installed accessory. The units are factory tested in the cooling mode. These units meet the DOE-2018 (Department of Energy), ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016, and IECC-2015* (International Energy Conservation Code) minimum efficiency requirements (except for size 08 with two-stage/one-circuit cooling capacity that meets IEER requirements only). Models with two-stage cooling and two-circuit design (08-16 sizes) come standard with two-speed indoor fan motor Staged Air Volume (SAV™) for U.S. installations. Models with two-stage cooling and one-circuit design does not require two-speed fan motor to meet U.S. minimum efficiencies for DOE.</p>				
FEATURES				
<p>Standard Base Unit (United States Models)</p> <ul style="list-style-type: none"> • Puron (R-410A) HFC refrigerant • EERs up to 11.3 • IEERs up to 13.0 (includes SAV) • Two-stage/two-circuit cooling capacity control on 08-16 models • Two-stage/one-circuit cooling capacity control on 08, 09, 12 models • Energy saving Staged Air Volume (SAV™) two-speed indoor fan motor on two circuit (08-16). Required in U.S. installations. Not available or required to meet DOE on 50TC*M models 08, 09, 12. • Rated in accordance with AHRI Standard 340/360 • Designed in accordance with Underwriters Laboratories Std 1995 • Listed by ETL and ETL-Canada • Two-stage cooling capacity control (sizes: 08-16) • Non-corrosive composite sloping design; side or center drain condensate pan. Meets ASHRAE Standard 62 • Standard cooling operating range from 40°F up to 115°F (4°C up to 46°C). Field installable accessory extends the minimum down to -20°F (-29°C). • Field convertible from vertical to horizontal airflow for slab mounting. No special kits required for sizes 08-14. Supply duct kit required for size 16 model only. • Two-inch disposable return air filters • Thru-the-bottom power entry capability • Single point electric connections • 24-volt control circuit protected with resettable circuit breaker and 75-VA transformer • Belt drive, constant torque, permanently lubricated evaporator-fan motor • Totally enclosed condenser motors with permanently lubricated bearings • Low-pressure and high-pressure switches • Full perimeter base rail with built-in rigging adapters and fork truck slots • Central Terminal Board for component and unit wiring connections 				
<p>Standard Base Unit (Non-United States Models)</p> <ul style="list-style-type: none"> • All features listed for US models, except: <ul style="list-style-type: none"> — EERs up to 11.3 — IEERs up to 12.2 without SAV — IEERs up to 13.0 with SAV — Two-stage/one-circuit cooling capacity control (sizes: 08-12) — Two-stage cooling capacity control on all models — Non-corrosive composite sloping design; side or center drain condensate pan. Meets ASHRAE Standard 62 — Rated in accordance with AHRI standard 340/360 				
<p>Cabinet (All)</p> <ul style="list-style-type: none"> • Access panels with easy grip handles and NO-STRIP screw collar • Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection • Fully insulated cabinet • Tool-less filter access door 				
<p>Refrigerant System (All)</p> <ul style="list-style-type: none"> • Accutrol† and/or TXV refrigerant metering system • Liquid line filter drier • Scroll compressors with internal line-break overload protection • Copper tube, aluminum fin evaporator coil • Round Tube/Plate Fin (RTPF) condenser coils on all model sizes or Novation® all aluminum condenser coils, available on sizes 08-14 with two-stage/two-circuit design • Top cover removable gauge line plug for reading refrigerant pressure with unit panels in place 				
<p>Standard Limited Parts Warranty</p> <ul style="list-style-type: none"> • 5-year electric heater (field-installed) parts • 5-year limited on all compressor parts • 5-year parts on factory-installed Ultra Low Leak Econo-mizers • 3-year limited on all Novation® condenser coil parts • 1-year limited on all Round Tube/Plate Fin (RTPF) condenser coil parts • 1-year limited on all parts 				
<small>* IECC is a registered trademark of International Code Council Inc. <small>† Accutrol is a trademark of Accutrol LLC.</small></small>				

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 W7212 controller provide standard non-diagnostic control (EconoMi\$er® IV system).
- Models with W7220 controller meet California Title 24 (Section 120.2) for Fault Detection and Diagnostic (FDD) requirement (EconoMi\$er X system).
- Models with RTU Open controller meet California Title 24 (Section 120.2) Fault Detection and Diagnostic (FDD) requirement (EconoMi\$er 2 system).
- Models with PremierLink™ controller. PremierLink controller does not meet California Title 24 (Section 120.2) Fault Detection and Diagnostic (FDD) requirement (EconoMi\$er 2 system).

Economizer with ENTHALPY Sensing and Barometric Relief

Low Leak Air Dampers —

- Models with W7212 controller provide standard non-diagnostic control (EconoMi\$er® IV system).
- Models with W7220 controller meet California Title 24 (Section 120.2) Fault Detection and Diagnostic (FDD) requirement (EconoMi\$er X system).
- Models with RTU Open controller meet California Title 24 (Section 120.2) Fault Detection and Diagnostic (FDD) requirement (EconoMi\$er 2 system).
- Models with PremierLink™ controller. PremierLink controller does not meet California Title 24 (Section 120.2) Fault Detection and Diagnostic (FDD) requirement (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 RTU Open 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.

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).

Economizer with ENTHALPY Sensing and Barometric Relief

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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).

NOTE: Production of single phase voltage models has been discontinued per DOE regulations. Single phase 50TC models are only available until current inventories are exhausted.

FACTORY-INSTALLED OPTIONS (CONT)

Standard Base Unit (United States Models)

- RTU Open multi-protocol controller communicates to BACnet*, Modbus†, LonWorks**, and Johnson N2 protocols.
- Through the base connectors for electric conduit/piping
- CCN Direct Digital Control (DDC) - Premier-Link™ controller††
- Humidi-MiZer® adaptive dehumidification system (RTPF condenser coil units only)
- Two-position motorized outdoor air damper
- 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
- CO₂ sensor
- Condenser hail guard-louvered style
- Special coating protection for evaporator and condenser coils
- Hinged access panels
- Condensate overflow switch

Standard Base Unit (Non-United States Models)

- Stage Air Volume (SAV™) 2-speed fan system

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.

* BACnet is a registered trademark of ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers).

† Modbus is a registered trademark of Schneider Electric.

** LonWorks is a registered trademark of Echelon Corporation.

FIELD-INSTALLED ACCESSORIES

Economizer with DRY BULB Sensing and Barometric Relief

Low 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) requirement. (EconoMi\$er X system).
- Models with RTU Open controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirement (EconoMi\$er 2 system).
- Models with PremierLink™ controller. PremierLink controller does not meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirement (EconoMi\$er 2 system).

Economizer with ENTHALPY Sensing and Barometric Relief

Low Leak Air Dampers —

- Models with W7212 controller provide standard non-diagnostic control (EconoMi\$er IV system).
- Models with W7220 controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er X system).
- Models with RTU Open controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirement (EconoMi\$er 2 system).
- Models with PremierLink controller. PremierLink controller does not meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirement (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.

- Models with RTU Open 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.

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).

Economizer with ENTHALPY Sensing and Barometric Relief

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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).

FIELD-INSTALLED ACCESSORIES (CONT)

- Display kit for Variable Frequency Drive (VFD), Staged Air Volume (SAV™) System. Allows additional set up and diagnostics of the unit VFD controller. Can be unit mounted or used with any other compatible VFD model as a reusable device.
 - Prop 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)
 - Condenser hail guard (louvered style)
 - Phase monitor (loss of phase/phase reversal)
 - Winter start kit, down to 25°F (-4°C)
 - Low ambient head pressure controller, down to 0°F (-18°C)
 - Low ambient head pressure controller, down to -20°F (-29°C)
 - Time Guard II compressor anti-cycle protection
 - Thermostats and sensors
 - Supply duct kit (size 16 units only)
 - Disconnect switch bracket (size 16 units only)
 - Condensate overflow switch
 - Non-powered 115-volt (20 amp) convenience outlet
 - Side access hinged filter door kit
 - Electric heaters
 - Single point electric heat kits
 - Horn/Strobe annunciator
- Economizer Sensors**
- Single dry bulb control
 - Differential dry bulb control
 - Single enthalpy control
 - Differential enthalpy control
 - Space thermostat or sensor
 - CO₂ — wall mounted
 - CO₂ — duct mounted
 - CO₂ — unit mounted

* Not available with SAV 2-speed fan motor.

CERTIFIED DIMENSION PRINT

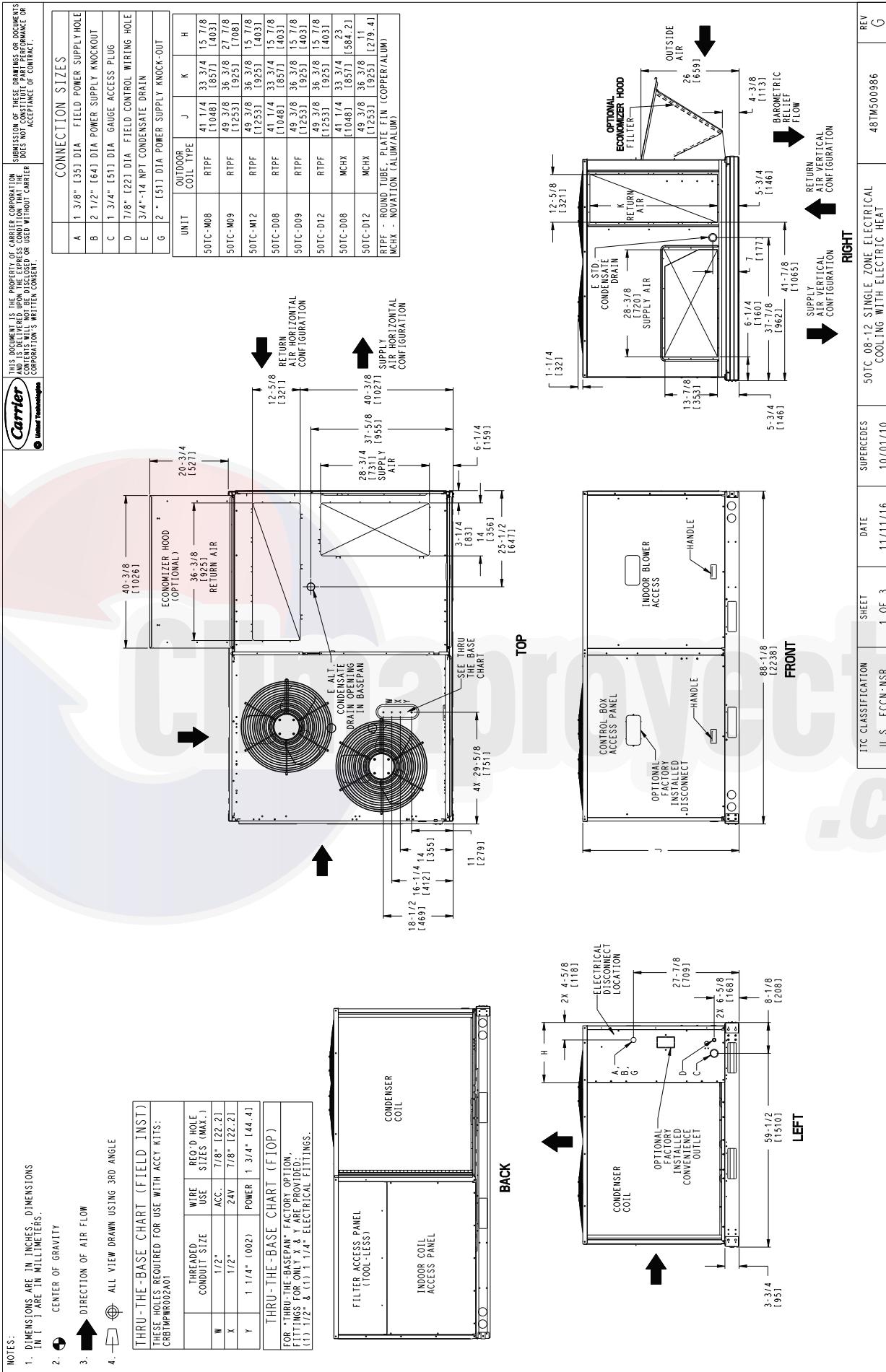


Fig. 1 — 50TC**08-12 Dimensional Drawing

CERTIFIED DIMENSION PRINT

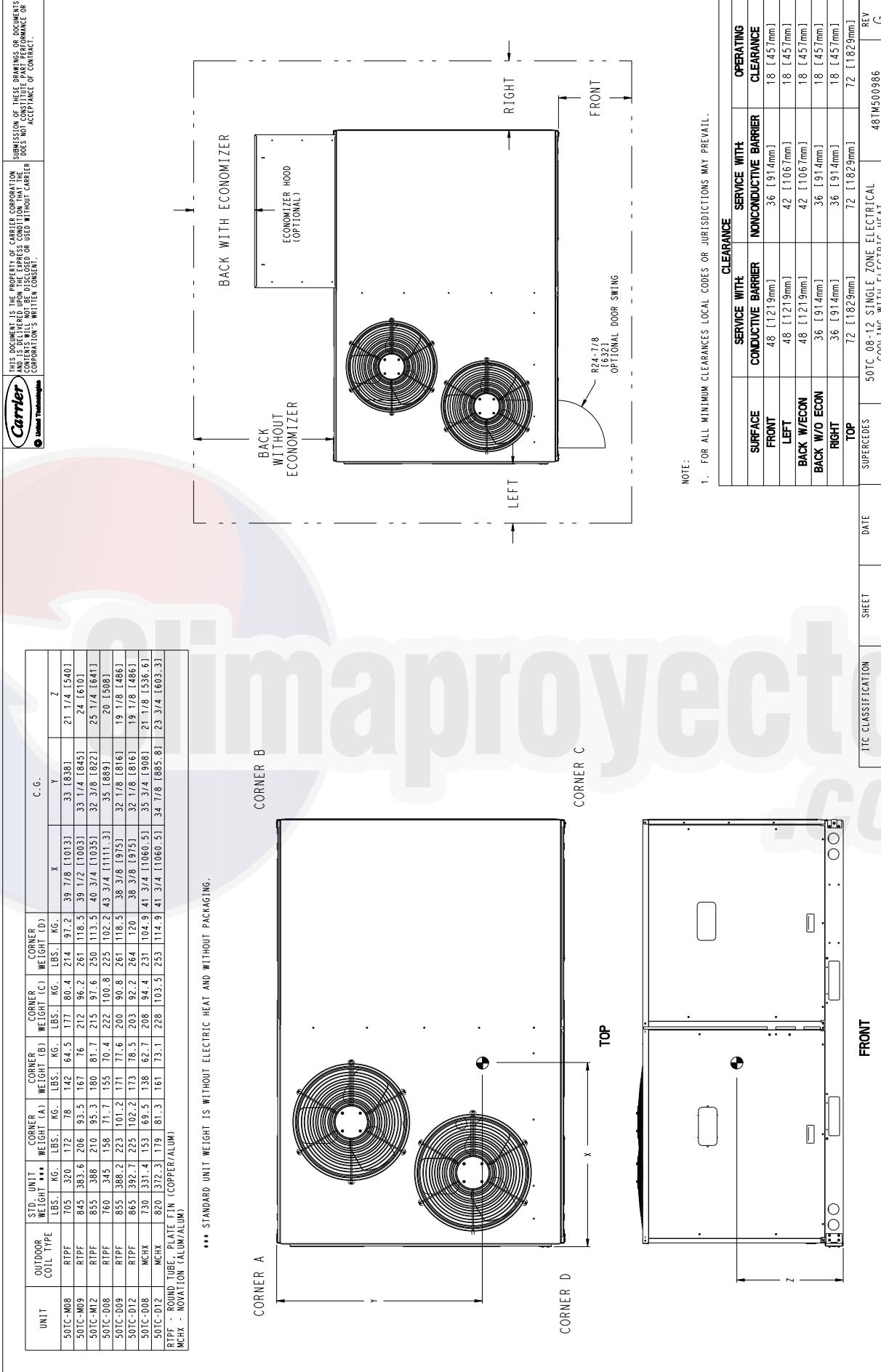


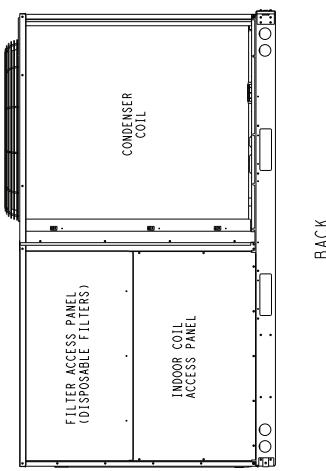
Fig. 2 — 50TC**08-12 Corner Weights

CERTIFIED DIMENSION PRINT

NOTES:

1. DIMENSIONS ARE IN INCHES. DIME
IN [] ARE IN MILLIMETERS.
 2.  CENTER OF GRAVITY
 3.  DIRECTION OF AIR FLOW

UNIT	OUTDOOR COIL TYPE	H
50TC-D14	MCHX	11 3/8 [29.9]
50TC-D14	RTPF	15 7/8 [40.3]
RTPF - ROUND TUBE PLATE FIN WCR - NODIVISION (ALUMINUM)		(COPPER/ALUMINUM)



DACK

6 1/4

CONNECTION SIZES	
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2 1/2" [64] DIA POWER SUPPLY KNOCKOUT
C	3 1/4" [151] DIA GAUGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3 4/4" [94] NPT CONDENSATE DRAIN
G	2" [51] DIA POWER SUPPLY KNOCK-OUT

TIRI-T- <u>THE</u> -BASE CHART THESE HOLES REQUIRED FOR USE CBTBPMW0202A01				
	W	CONDUIT SIZE	THREADED ACC.	WIRE SIZES (MAX.)
X	1 1/4"	1 1/2"	24V	7/8" (22.2)
Y	1 1/4" (002)	1 1/2"	POWER	1 3/4" ([44, 4])

FOR "TIRI-T-THE-BASEAN" FACTORY OPTION
FITTINGS FOR ONLY X & Y ARE PROVIDED

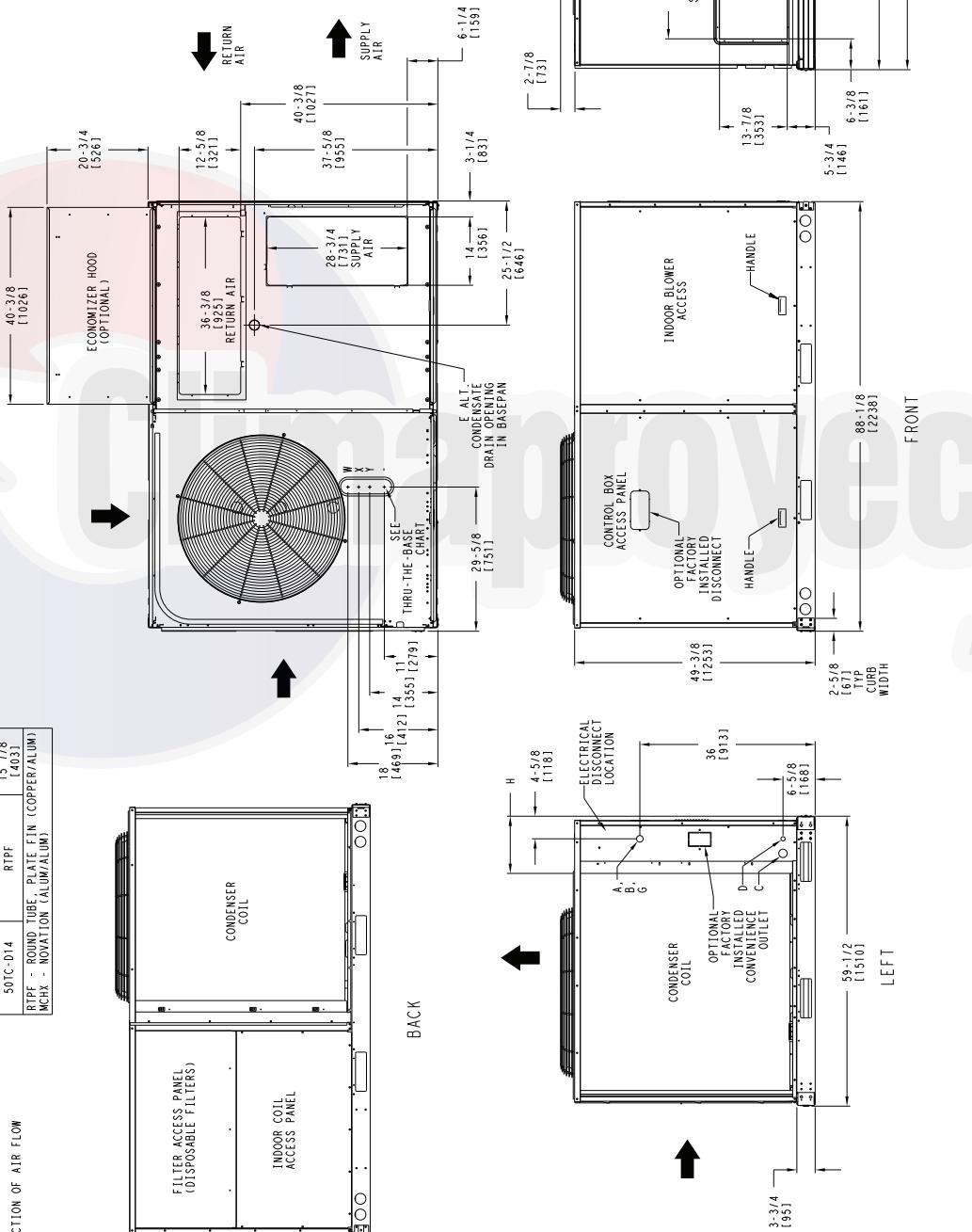


Fig. 3 — 50TC14 Dimensional Drawing**

SHEET 1 OF 2 DATE 10-04-10 SUPERSEDES 11-24-08 50TC-14 SINGLE ZONE ELECTRICAL COOLING WITH ELECTRIC HEAT 48TM501442 REV G

CERTIFIED DIMENSION PRINT

UNIT		OUTDOOR COIL TYPE	STD. UNIT WEIGHT ***	CORNER A WEIGHT (A) LBS. KG.	CORNER B WEIGHT (B) LBS. KG.	CORNER C WEIGHT (C) LBS. KG.	CORNER D WEIGHT (D) LBS. KG.	C. G.			
UNIT	TYPE		LBS.	LBS.	LBS.	LBS.	LBS.	X	Y	Z	
50TC-014	MCHX	1030	467	294	133	146	66	197	395	179	28 3/8 [721]
50TC-014	RIPF	1075	489	340	155	155	70	181	399	181	27 1/2 [699]
											33 1/8 [841]
											32 [813]
											20 1/2 [523]
*** STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.											
***** STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.											
RIPF - ROUND TUBE PLATE FIN (COOPER/ALUM) MCHX - MICROCHANNEL (ALUM/ALUM)											

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13221
CARTRIDGE

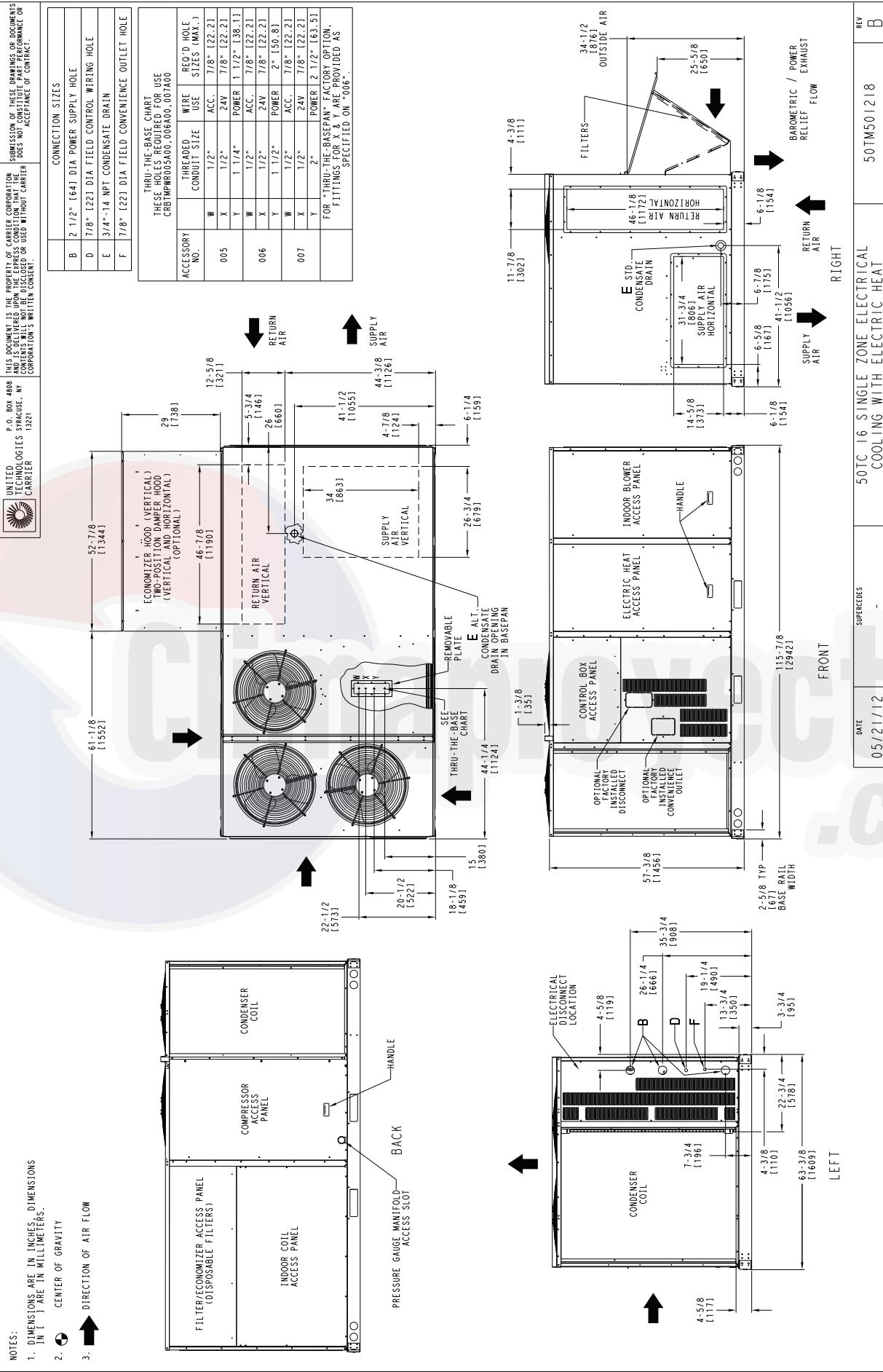
SUBMISSION OF THESE DRAWINGS OR DOCUMENTS
AND IS DELIVERED UPON THE EXPRESS CONDITION THAT THE
CONTENT WILL NOT BE DISCLOSED OR USED WITHOUT CARRIER
CONTRACT WRITTEN CONSENT.

RECEIPT OF THIS DOCUMENT BY CARRIER
ACCEPTANCE OF CONTRACT.

SHEET 2 OF 2 DATE 10-04-10 SUPERSEDES 11-24-08 50TC 14 SINGLE ZONE ELECTRICAL
48TM501442 REV G

Fig. 4 — 50TC14 Corner Weights**

CERTIFIED DIMENSION PRINT



CERTIFIED DIMENSION PRINT

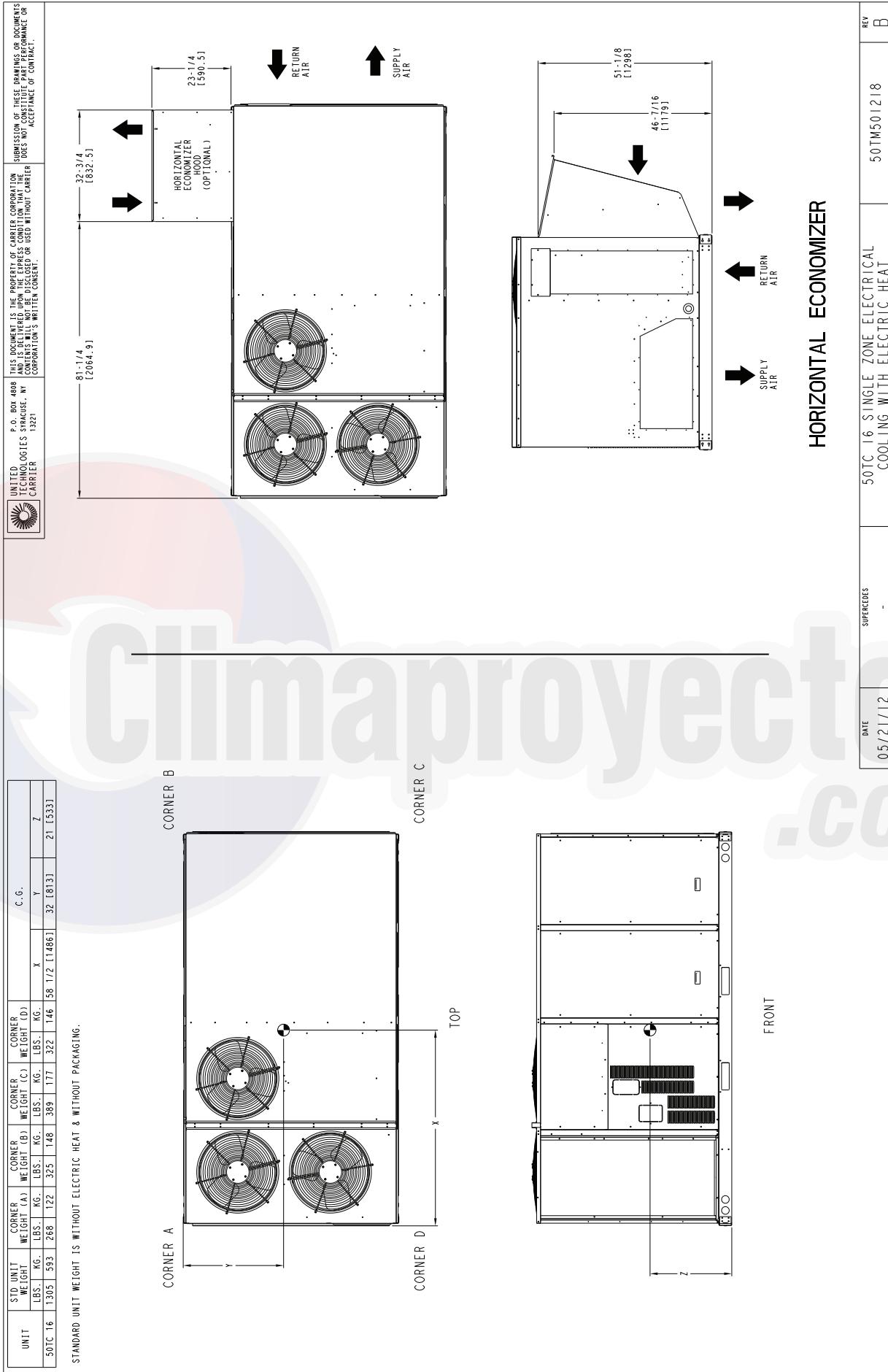


Fig. 6 — 50TC**16 Corner Weights

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 1 ARE IN MILLIMETERS.
 4. ROOFCURB: 18 GAGE STEEL.
 5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON EACH SIDE).
 6. SERVICE CLEARANCE 4 FEET ON EACH SIDE.
 7. DIRECTION OF AIR FLOW.
 8. CONNECTOR PACKAGE CRBTMPWR00A01 IS FOR THRU-THE-CURB GAS TYPE.
 PACKAGE CRBTMPWR00A01 IS FOR THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

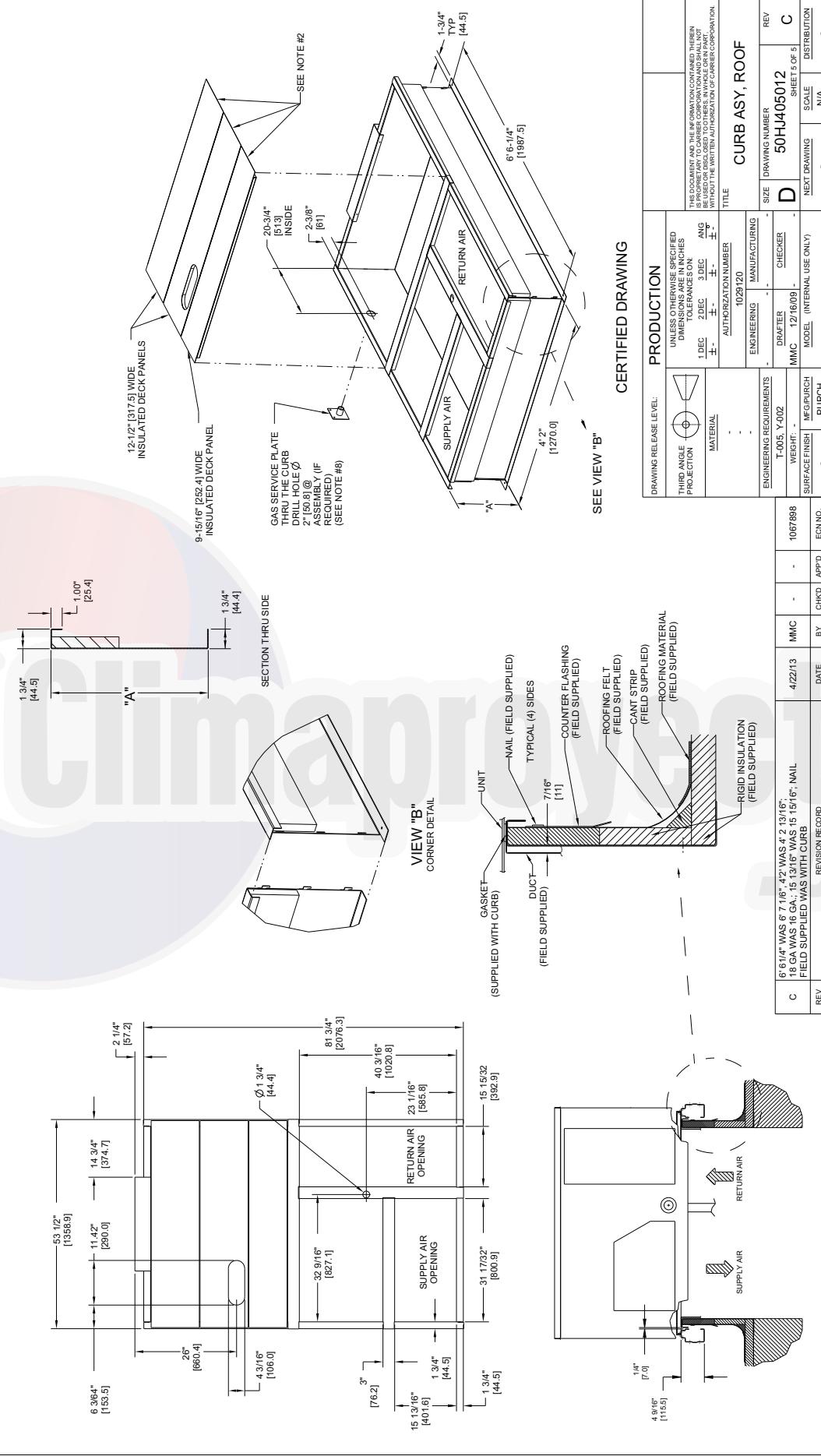


Fig. 7 — 50TC*08-14 Roof Curb Details

CERTIFIED ROOF CURB DETAILS

ROOF CURB ACCESSORY IS SHIPPED DISASSEMBLED.
2. INSULATED PANELS: 1/2" THK, NEOPRENE FOAM, 1 # DENSITY.
3. DIMENSIONS IN " " ARE IN MILLIMETERS.
4. ROOFCURB SIDEWALLS ARE STAINLESS STEEL.
5. A BACKUP DOOR IS PROVIDED ON THE LARGEST OF DUCT REST ON CURB).
6. DIRECTION OF AIR FLOW.
7. "L" & "R" DESIGNATIONS DENOTE LOCATION OF COMMON CROSS RAIL.
8. (POSITION "L" FOR LARGE OPENING CURB).

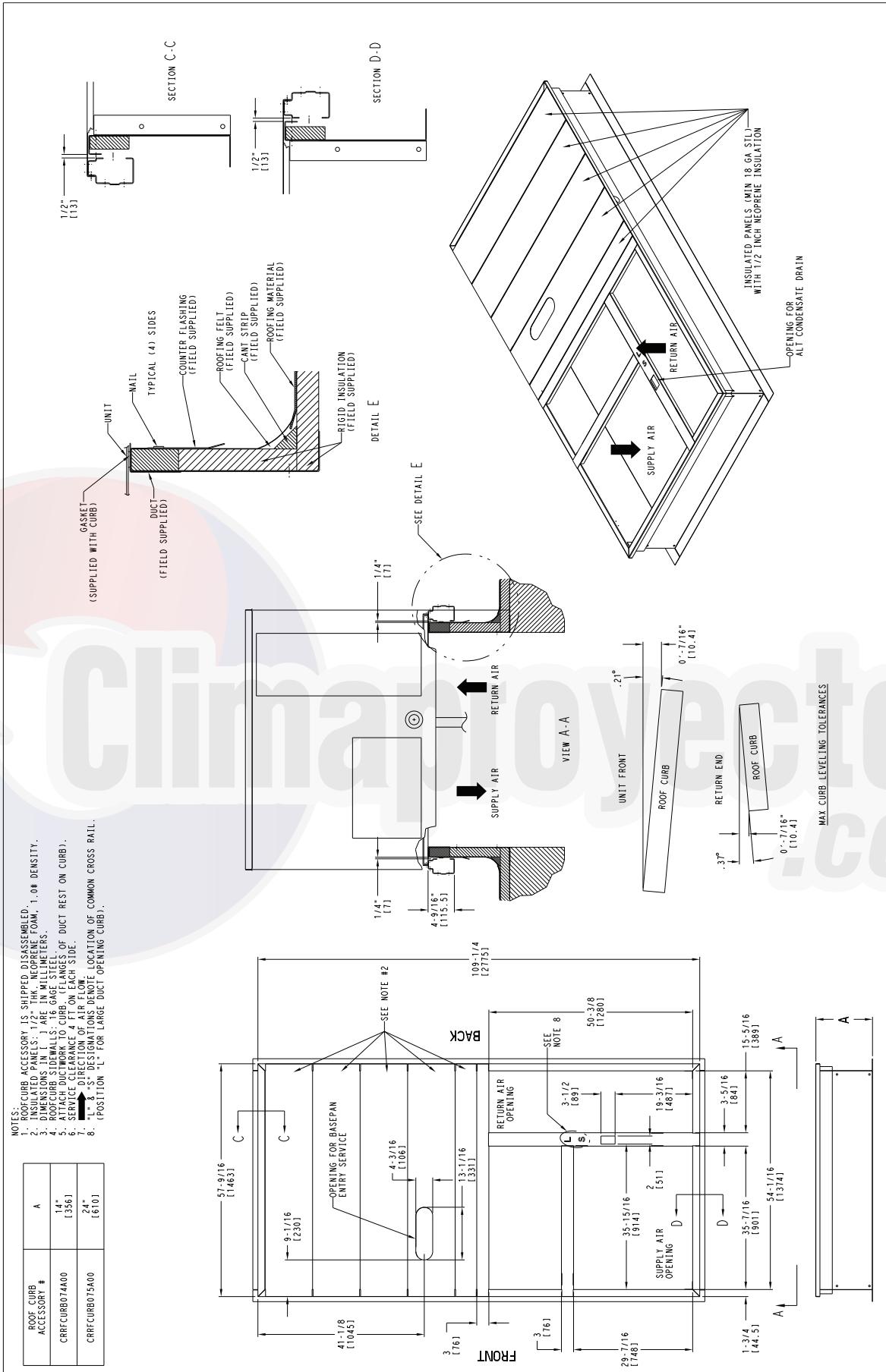


Fig. 8 — 50TC16 Roof Curb Details**

