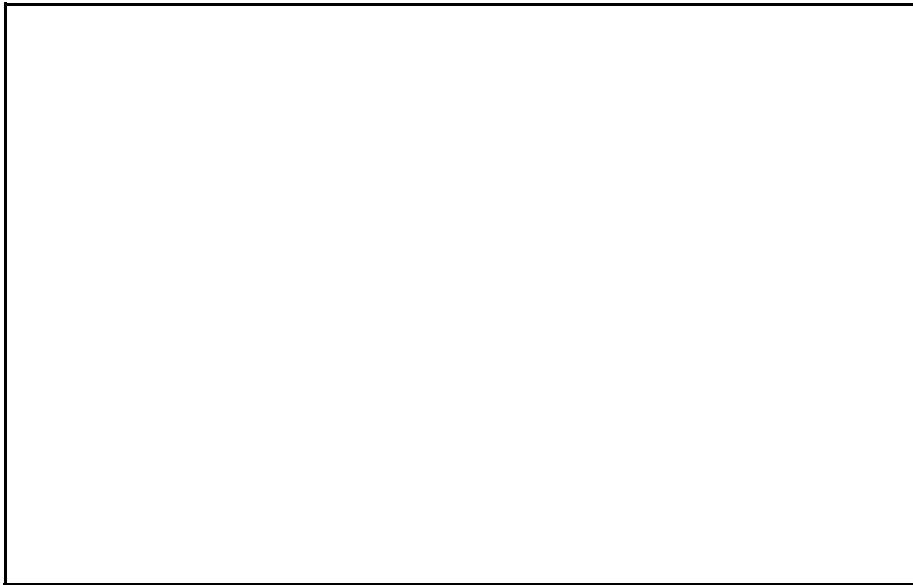


**50JC WEATHEREXPERT® SERIES
VARIABLE SPEED
SINGLE PACKAGE ROOFTOP
WITH ECOBLUE™ TECHNOLOGY
COOLING UNITS WITH
OPTIONAL ELECTRIC HEAT**

- 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>50JC units are ultra high-efficiency single-packaged variable speed electric cooling, electric heating 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. All size 04-06 models use variable speed cooling capacity control.</p>				
FEATURES				
<p>Standard Base Unit</p> <ul style="list-style-type: none"> Puron (R-410A) HFC refrigerant 20 SEER and 18.9 SEER2 Exceeds ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016 and IECC®¹ (International Energy Conservation Code) IECC-2015 minimum efficiency requirements Rated in accordance with AHRI Standards 210/240 Designed in accordance with Underwriters Laboratories Std 1995 and listed by UL and UL-Canada Corrosive resistant composite sloping design; side or center drain condensate pan. Meets ASHRAE Standard 62 Cooling operating range from 0°F (-18°C) up to 125°F (52°C) Field convertible from vertical to horizontal airflow for slab mounting — no special kits required Two-inch disposable return air filters. Thru-the-bottom power entry capability Single point two-stage electric connections 24-volt control circuit protected with resettable circuit breaker Direct Drive — EcoBlue™ Technology Indoor fan system uses Vane Axial fan design and electronically commutated motor <ul style="list-style-type: none"> 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 loss Shall have slow ramp up to speed control capabilities to help reduce sound and comfort issues Shall be a slide-out design with two screw removal All sizes have variable speed cooling capacity control that ranges from 25% up to 105% of normal unit capacity Totally enclosed variable speed 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 <p>SystemVu™ controls are standard on each unit to help facilitate units' diagnostics, ease of commissioning, control the cooling, heating, ventilation operation and much more. Some highlights:</p> <ul style="list-style-type: none"> Large full text - multi line display SB Flash Port for data transfer Built in i-Vu®, CCN and BACnet®¹ Built in electrical phase and compressor reverse rotation protection 				
<p>Cabinet</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 Tool-less filter access door Cabinet insulated with foil faced insulation that is encapsulated/taped throughout the indoor air stream <p>Refrigerant System</p> <ul style="list-style-type: none"> TXV refrigerant metering device Liquid line filter drier Scroll compressors with internal line-break overload protection Copper tube, aluminum fin coils with optional corrosion resistant coils. Removable gage line plugs 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 parts (field-installed) 5-year compressor parts 5-year Ultra Low Leak economizer parts (factory-installed) 3-year SystemVu™ controls 1-year parts 				
<p>1. Third-party trademarks and logos are the property of their respective owners.</p>				

PERFORMANCE DATA

Unit Operating Weight _____ lb

COOLING (ELECTRIC)

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

Indoor Fan Motor Setting _____ Vdc

Exhaust Fan Motor Size _____ HP

Curb Weight _____ lb

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 _____



FACTORY-INSTALLED OPTIONS

Economizer with DRY BULB Sensing and Barometric Relief¹

Low Leak Air Dampers —

- 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 Relief¹

Low Leak Air Dampers —

- 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 Relief¹

ULTRA LOW LEAK Air Dampers —

- Models with SystemVu meet California Energy Commission Title 24-2016 prescriptive 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 and return air (volume) dampers are AMCA rated — plus 5 year limited parts warranty (EconoMi\$er 2 system).

Economizer with ENTHALPY Sensing and Barometric Relief¹

ULTRA LOW LEAK Air Dampers —

- Models with SystemVu meet California Energy Commission Title 24-2016 prescriptive 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 and return air (volume) dampers are AMCA rated — plus 5 year limited parts warranty (EconoMi\$er 2 system).

1. Not available for single phase (-3 voltage) models.

FACTORY-INSTALLED OPTIONS (CONT)

- Through the base connectors for electric conduit
- Humidi-MiZer® adaptive dehumidification system (this option also includes low ambient controls)
- Electric heaters and single point electrical point kits.
- HACR circuit breaker
- 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
- Special coating protection for evaporator and condenser coils
- MERV-8 return air filters
- Phase monitor protection
- Condensate overflow switch
- Hinged access panels for easy unit access
- Condenser hail guard - louvered style
- Cu/Cu coils

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.

FIELD-INSTALLED ACCESSORIES

Economizer with DRY BULB Sensing and Barometric Relief

Low Leak Air Dampers —

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

Economizer with ENTHALPY Sensing and Barometric Relief

Low Leak Air Dampers —

- Models with SystemVu controller meet California Title 24-2016 Section 120.2.i 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 SystemVu meet California Energy Commission Title 24-2016 prescriptive 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 (cont)

ULTRA LOW LEAK Air Dampers —

- Models with SystemVu meet California Energy Commission Title 24-2016 prescriptive 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).

FIELD-INSTALLED ACCESSORIES (CONT)

- Electric heater(s)
- Power exhaust — prop fan design
- 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
- Condenser hail guard, louvered style
- Phase monitor (loss of phase/phase reversal)
- 115v 20 Amp non unit powered convenience outlet kit

- Condensate overflow switch

- Thermostats and sensors

NOTE: These models have variable speed cooling capability, use appropriate thermostat.

Economizer Sensors

- Single dry bulb control
- Differential dry bulb control
- Single enthalpy control
- Differential enthalpy control
- CO₂ — wall mounted
- CO₂ — duct mounted
- CO₂ — unit mounted

UNIT DIMENSION PRINT

Fig. 1 — 50JC04-06 Base Unit Dimensions**

UNIT DIMENSION PRINT

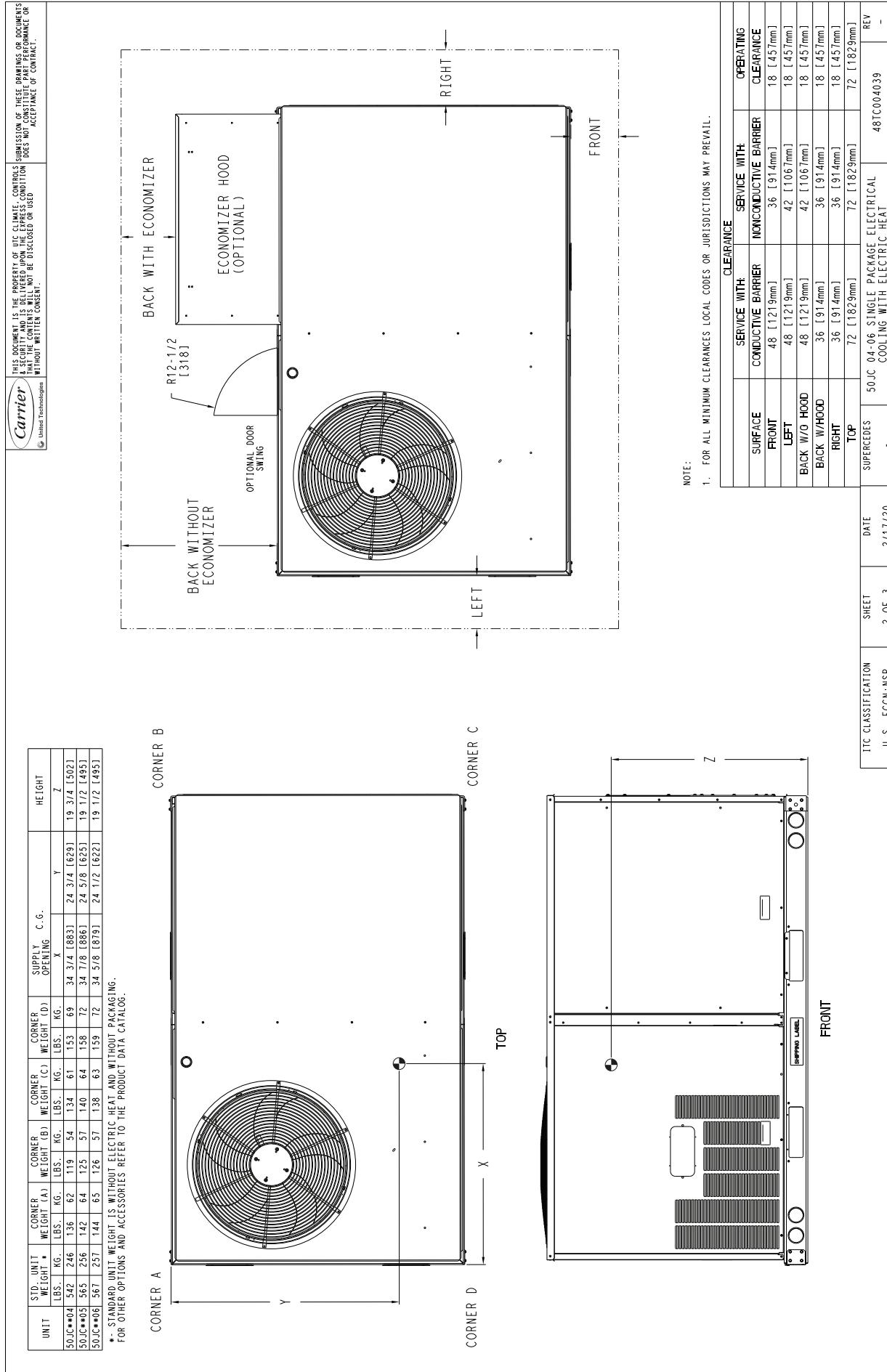


Fig. 1 — 50JC**04-06 Base Unit Dimensions (cont)

UNIT DIMENSION PRINT

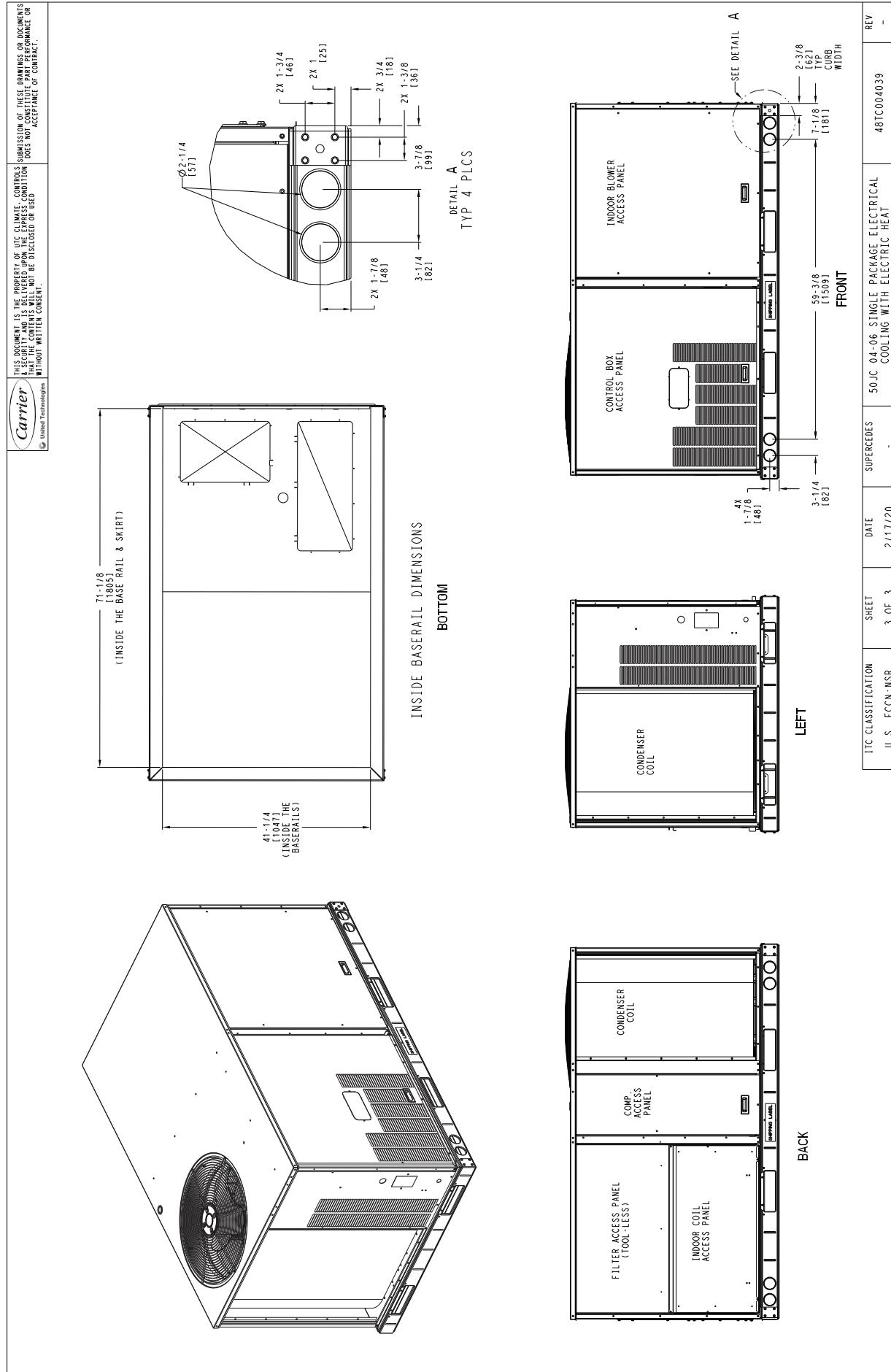


Fig. 1 — 50JC04-06 Base Unit Dimensions (cont)**

ACCESSORY DIMENSION PRINT

ROOF CURB ACCESSORY #	NOTES:	CONNECTOR PKG. ACC.	GAS CONNECTION TYPE	GAS FITTING	POWER WIRING FITTING	CONTROL WIRING FITTING	ACCESSORY CONVENIENCE OUTLET/WIRING CONNECTOR
CRRFCURB01A01	1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED. 2. INSULATED PANELS: 25.41" THK POLYURETHANE FOAM, 44.5 [1-34] # DENSITY. 3. DIMENSIONS IN 1 ARE IN MILLIMETERS. 4. RECOMMENDED FOR USE ON ROOF CURB (FLANGES OF DUCT REST ON CURB). 5. AT EACH CURVE REST CURB (FLANGES OF DUCT REST ON CURB). 6. SERVICE CLEARANCE 4 FT ON EACH SIDE. 7. DIRECTION OF AIR IS LOW. [356]	CRBTMPVR001A01	THR U THE CURB	3/4" [19] NPT	3/4" [19] NPT	1/2" [12.7] NPT	1/2" [12.7] NPT
CRRFCURB02A01	14" 24" [6][10]	CRBTMPVR03A01	THR U THE BOTTOM	1/2" [12.7] NPT	3/4" [19] NPT	1/2" [12.7] NPT	1/2" [12.7] NPT

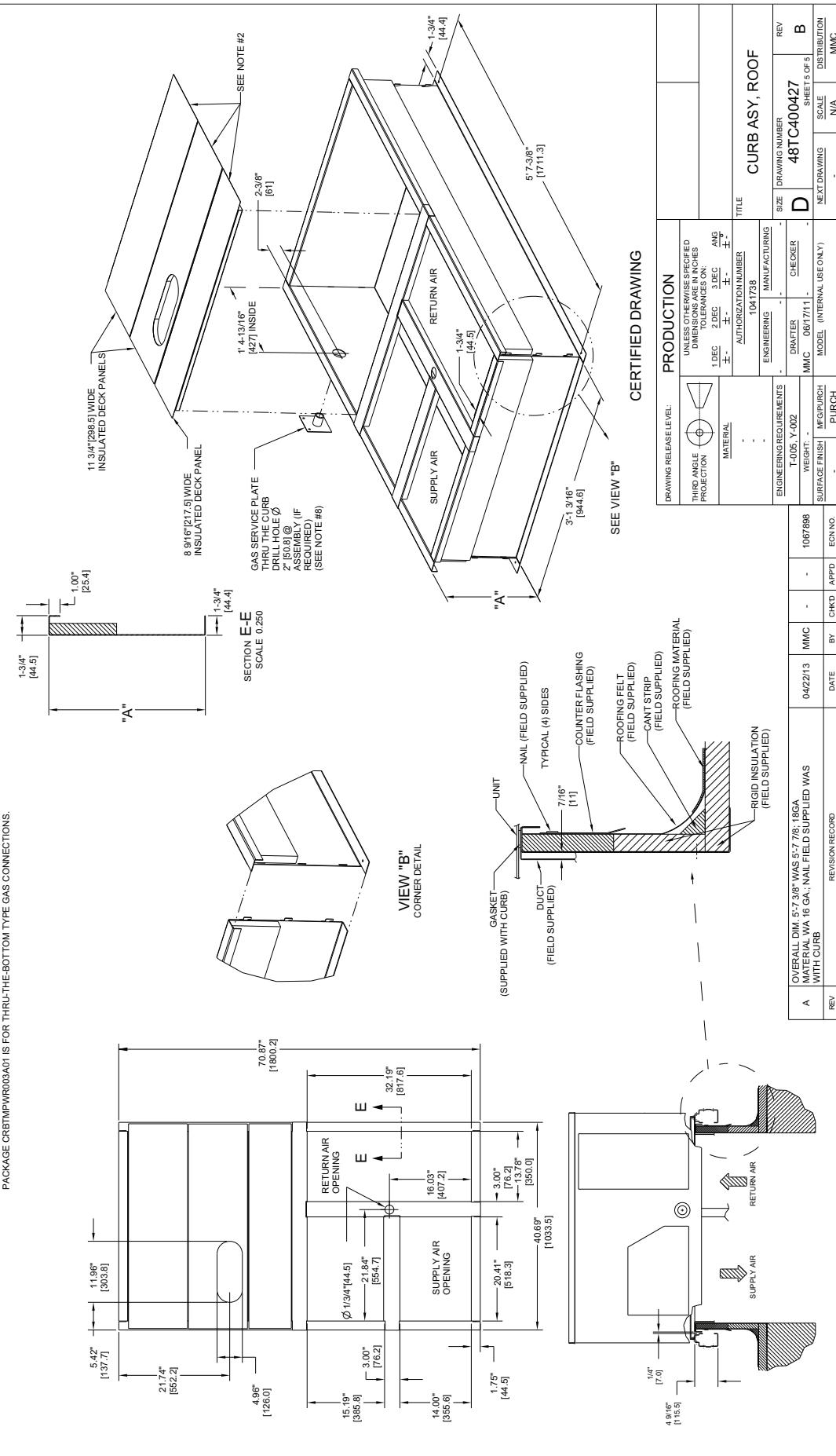


Fig. 2 = 50JC**04-06 Base Unit Dimensions

