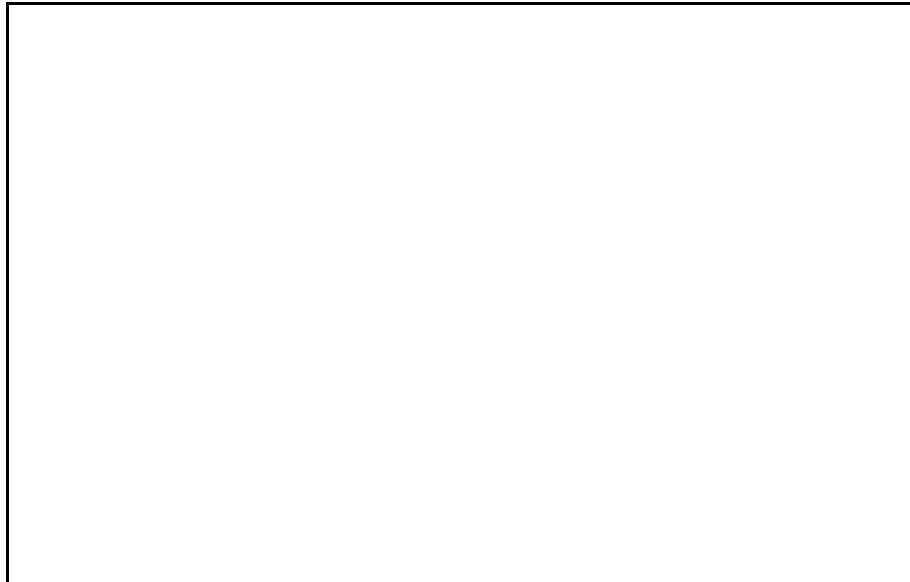




**582K*04-06D/E LEGACY™ LINE
WITH AXION™ FAN TECHNOLOGY
SINGLE PACKAGE ROOFTOP
WITH ULTRA LOW NOX
GAS HEAT/ELECTRIC COOLING UNITS**

- PERFORMANCE DATA**
- CERTIFIED DIMENSION PRINTS**
- CERTIFIED ROOF CURB DETAILS**



JOB NAME:		LOCATION:	
BUYER:		BUYER PO #:	BRYANT#:
UNIT NUMBER:		MODEL NUMBER:	
PERFORMANCE DATA CERTIFIED BY:			
DESCRIPTION 582K*04-06D/E units are single-packaged electric cooling, ULTRA LOW NOx gas heating unit that are pre-wired and pre-charged with Puron® (R-410A) HFC refrigerant. The units are factory tested in both heating and cooling modes. Sizes 04-06 models use single-stage cooling capacity control. FEATURES <u>Standard Base Unit</u> • Puron (R-410A) HFC refrigerant • SEER of 14.0 • Meets or exceeds ASHRAE 90.1 energy efficiency levels • Rated in accordance with AHRI Standards 210/240 • Designed in accordance with Underwriters Laboratories Std 1995 • Listed by UL and UL-Canada • Single-stage cooling capacity control • Corrosive resistant 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 • Two-inch disposable return air filters • Thru-the-bottom power and gas entry capability • Single point gas and electric connections • 24-volt control circuit protected with resettable circuit breaker • Direct Drive - Axion™ Fan Technology 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 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 • 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 • Centralized terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement • New unit control board with intuitive quick fan speed adjustment <u>Cabinet</u> • Access panels with easy grip handles • Innovative, easy starting, no-strip screw feature on unit access panels • Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection • Fully insulated cabinet • Tool-less filter access door <u>Refrigerant System</u> • Acutrol™ refrigerant metering system • Liquid line filter drier • Scroll compressors with internal line-break overload protection • Copper tube, aluminum fin coils with optional corrosion resistant coils • Top cover removable gage line plugs for reading refrigerant pressure with unit panels in place <u>Gas Heat</u> • IGC solid-state gas heat exchanger control for on-board diagnostics, anti-cycle protection, LED error code designation, burner control logic and energy saving indoor fan motor delay • Gas efficiencies up to 81% • Inducted draft combustion • Redundant gas valve • Flame roll-out safety protector • Solid-state electronic direct spark ignition system • Ultra Low NOx 3 to 5 ton models that meet California Air Quality Management NOx requirement of 14 nano-grams/joule. Ultra Low NOx models include stainless steel heat exchangers. <u>Standard Limited Parts Warranty</u> • 10-year gas heat exchanger parts • 5-year compressor parts and burner box • 5-year factory installed Ultra Low Leak Economizer • 1-year parts			

PERFORMANCE DATA

Unit Operating Weight _____ lb Airflow _____ CFM External Static Pressure _____ in. wg

COOLING

Gross Total Capacity _____ Btuh Indoor Fan Motor Size _____ HP

at Condenser Air Temperature _____ °F Indoor Fan Motor Setting _____ Vdc

Gross Sensible Capacity _____ Btuh Exhaust Fan Motor Size _____ HP

Compressor Power Input _____ kW Curb Weight _____ lb

Indoor Entering: db _____ °F / wb _____ °F **HEATING (GAS)**

Heating Total Capacity _____ Btuh

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 Relief (04-06 sizes)

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), IECC, and ASHRAE 90.1 for Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er X system).
- Models with RTU Open controller meet California Title 24 (Section 120.2), IECC, and ASHRAE 90.1 for Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er 2 system).

❑ Economizer with ENTHALPY Sensing and Barometric Relief (04-06 sizes)

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), IECC, and ASHRAE 90.1 for Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er X system).
- Models with RTU Open controller meet California Title 24 (Section 120.2), IECC, and ASHRAE 90.1 for Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er 2 system).

❑ Economizer with DRY BULB Sensing and Barometric Relief (04-06 sizes)

ULTRA LOW LEAK Air Dampers —

- Models with W7220 controller 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 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 and 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 (04-06 sizes)

ULTRA LOW LEAK Air Dampers —

- Models with W7220 controller 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 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 and 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).

FACTORY-INSTALLED OPTIONS (CONT)

Standard Base Unit

- ☐ RTU Open multi-protocol controller communicates to BACnet¹, Modbus², LonWorks³, and Johnson N2 protocols.
- ☐ Through the base connectors for gas and electric conduit/piping
- ☐ Perfect Humidity adaptive dehumidification system (This option should also include low ambient controls)
- ☐ Two-position motorized outdoor air damper
- ☐ Non-fused disconnect not available on 460 Volt
- ☐ Powered 115-volt convenience outlet
- ☐ Non-powered 115-volt convenience outlet

-
1. BACnet is a trademark of ASHRAE.
 2. Modbus is a registered trademark of Schneider Electric.
 3. LonWorks is a registered trademark of Echelon Corporation.

- ☐ 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 doors
- ☐ Condensate overflow switch
- ☐ MERV-8 return air filters
- ☐ Phase Monitor Protection (3-Phase models only)

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 W7212 controller provide standard non-diagnostic control (EconoMi\$er® IV system).
- Models with W7220 controller meet California Title 24 (Section 120.2), IECC, and ASHRAE 90.1 for Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er X system).
- Models with RTU Open controller meet California Title 24 (Section 120.2), IECC, and ASHRAE 90.1 for Fault Detection and Diagnostic (FDD) requirements (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), IECC, and ASHRAE 90.1 for Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er X system).
- Models with RTU Open controller meet California Title 24 (Section 120.2), IECC, and ASHRAE 90.1 for 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 prescriptive 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 prescriptive section 140.4 (damper leakage, etc.) and mandatory section 120.2.i for Fault Detection and Diagnostic requirements. Economizers meet ASHRAE 90.1-2013 / 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

ULTRA LOW LEAK Air Dampers —

- Models with W7220 controller 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 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 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)

- ☐ 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 only
- ☐ Thru-the-bottom connections, electrical and gas
- ☐ Condenser hail guard, louvered style
- ☐ Flue shield
- ☐ Flue discharge deflector
- ☐ Liquid propane (LP) conversion kit
- ☐ High altitude conversion kit
- ☐ Phase monitor (loss of phase/phase reversal)
- ☐ Winter start kit, down to 25°F (−4°C)
- ☐ Fan/Filter status switch
- ☐ 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
- ☐ Condensate overflow switch
- ☐ Non-powered 115-volt (20 amp) convenience outlet
- ☐ Side access hinged filter door kit
- ☐ Horn/Strobe annunciator

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

NOTES:

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

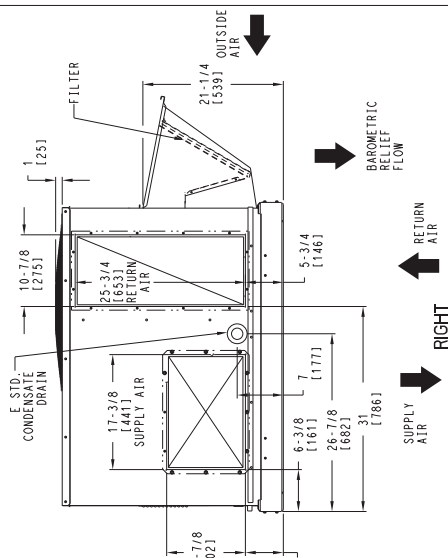
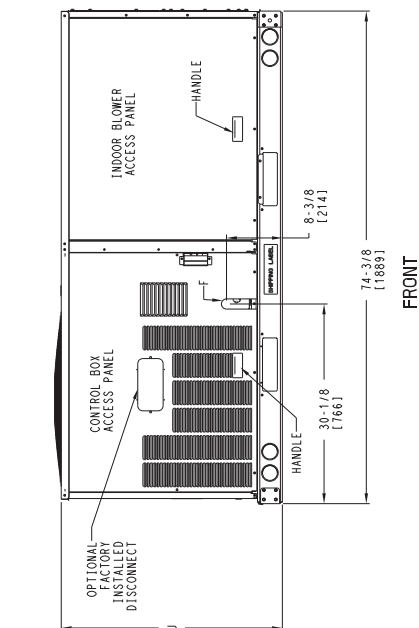
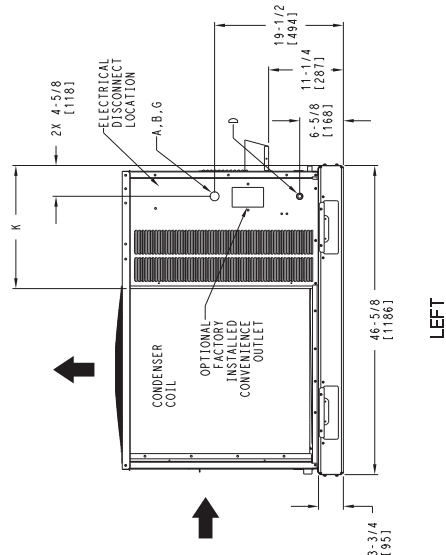
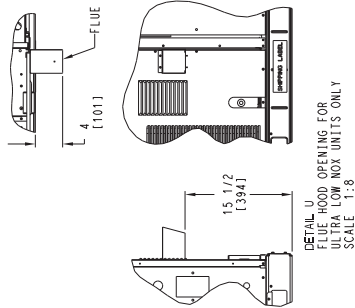
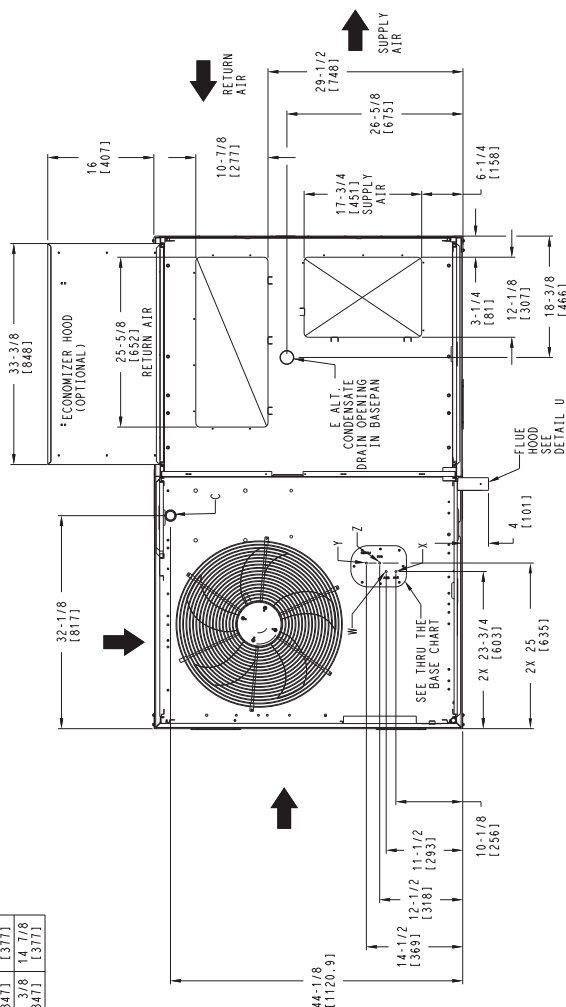
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582(*060)	33.378 [8472]	14.778 [371]

dryant
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	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

	THREADS CONDUIT SIZE	WIRE SIZE	REC'D HOLE SIZES (MAX.)
X	1/2"	11SV	7/8" x 122.2)
W	1/2"	24V	7/8" x 122.2)
Z	3/4"	PAS	1-1/8" x 128.6)
Y	1/2"	FPT	GAS 1-1/8" x 128.6)
* Z*	(090A00) 1/2"	FPT	(090A00) 1-1/8" x 128.6)
	(FOR "THRU-THE-BASEPAIN" FACTORY OPTION. FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED (008A00) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING.		



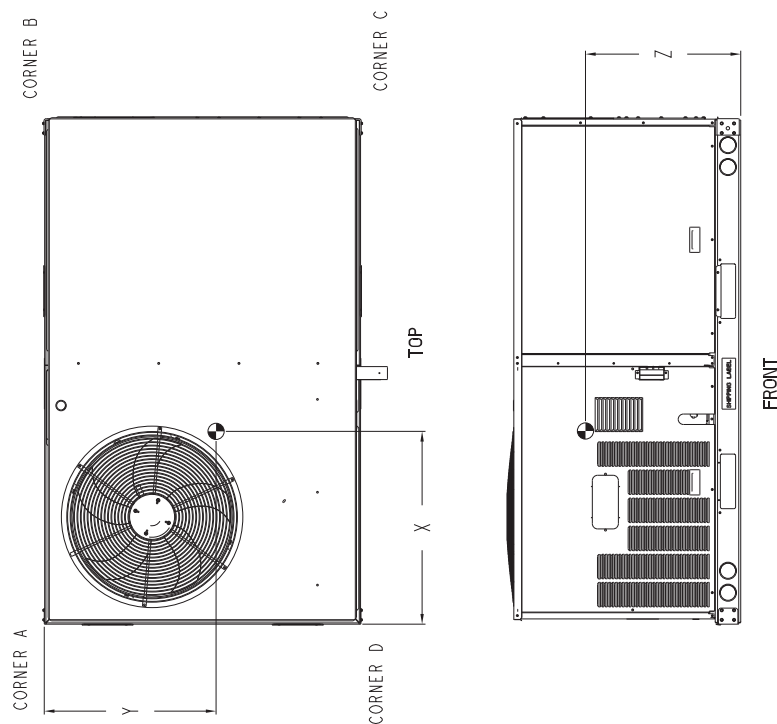
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	582K 04-06D SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003095
II S FCC-NSR	1 OF 3	11/17/20	04/02/19		

Fig. 1 — 582K*04-06D/E Dimensional Drawing

CERTIFIED DIMENSIONS PRINT

UNIT	STD. UNIT LBS.	CONER WEIGHT (A)		CONER WEIGHT (B)		CONER WEIGHT (C)		CONER WEIGHT (D)		C. G.		HEIGHT Z	
		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y		
582K+04D	512	233	120	55	122	55	136	62	134	61	37 1/2 [953]	24 11/16 [627]	18 1/8 [460]
582K+05D	512	260	146	68	139	63	141	64	147	67	36 3/8 [924]	23 1/2 [597]	18 [457]
582K+06D	566	266	149	66	135	63	144	65	151	69	36 3/8 [924]	23 1/2 [597]	18 [457]

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



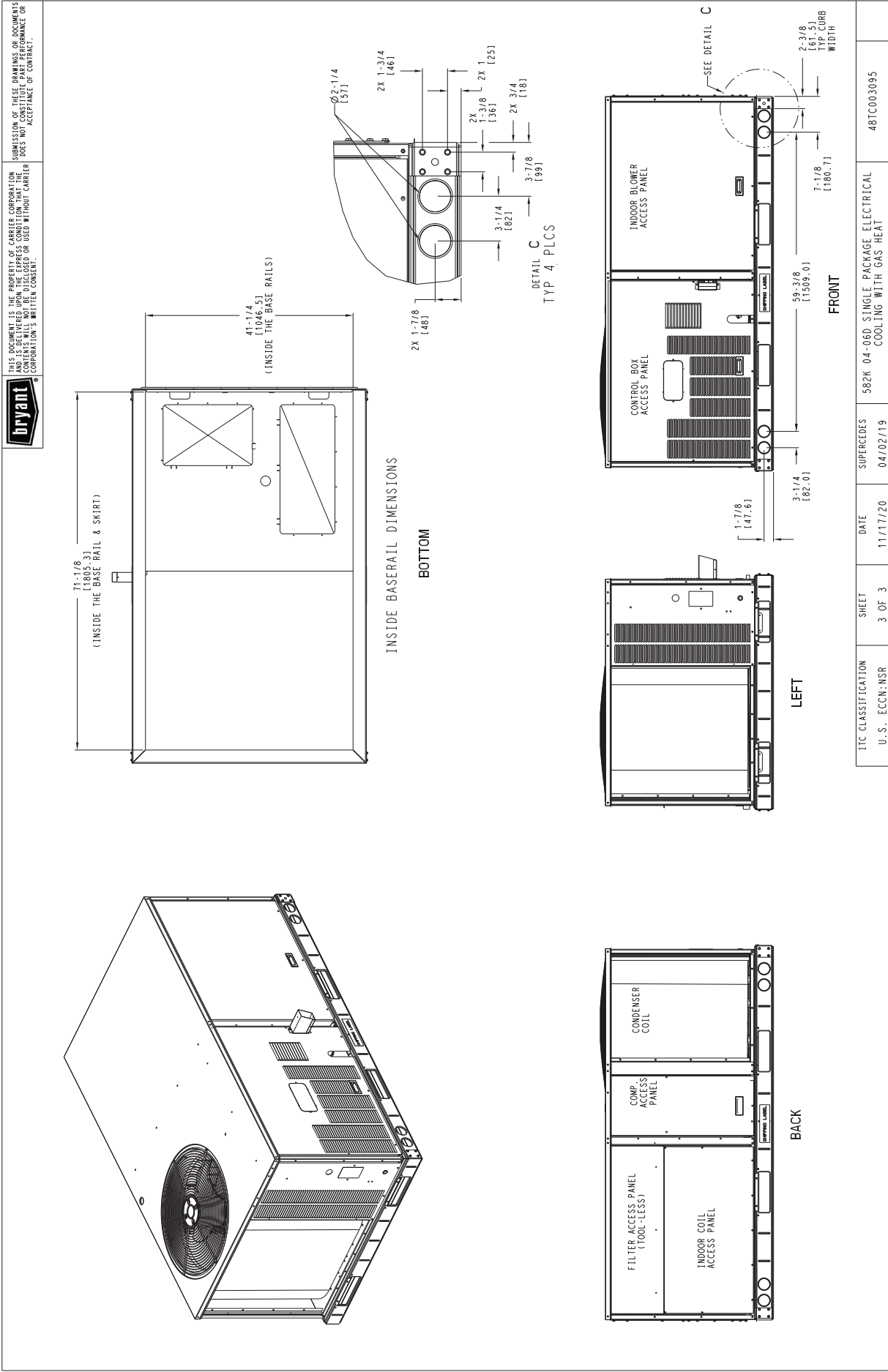
NOTES:

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

		CLEARANCE			
SURFACE		SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER	OPERATING CLEARANCE	
FRONT		48 [121.9mm]	36 [91.4mm]	18 [457mm]	
LEFT		48 [121.9mm]	42 [106.7mm]	18 [457mm]	
BACK W/O HOOD		48 [121.9mm]	42 [116.7mm]	18 [457mm]	
BACK W/HOOD		36 [91.4mm]	36 [91.4mm]	18 [457mm]	
RIGHT		36 [91.4mm]	36 [91.4mm]	18 [457mm]	
TOP		72 [182.9mm]	72 [182.9mm]	72 [182.9mm]	
SUPERDEES		582K 04-06D SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT		48TC003095	
04/02/19					

Fig. 1 — 582K*04-06D/E Dimensional Drawing (cont)

CERTIFIED DIMENSION PRINT



[illegible]

Fig. 2 — 582K*04-06D/E Roof Curb Accessory Details

