548J***D SINGLE PACKAGE ROOFTOP HIGH-EFFICIENCY HEAT PUMP UNITS WITH FIELD-INSTALLED ELECTRIC HEAT SIZES 17 & 24 WITH PURON® (R-410A) REFRIGERANT



Submittal Data



Certified to ISO 9001:2000





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.



DESCRIPTION

548J***D units are one-piece, two-stage heat pump units that are low profile, prewired, tested and charged at the factory. These are intended for installation on a roof curb accessory (ordered separately), or for slab mounting (for horizontal duct connections). Units are designed to accept field-installed electric heaters. Units may be ordered with various factory-installed options. Field-installed accessories are also available.

STANDARD FEATURES

Base Unit

- Puron (R-410A) HFC refrigerant
- EER's up to 10.8
- IEER's up to 11.5
- COP's up to 3.3
- ASHRAE 90.1 energy compliant
- Rated in accordance with AHRI Standard 340/360
- Designed in accordance with Underwriters' Laboratories Standard 1995
- Two-stage cooling capacity control on all models
- Non-corrosive composite sloping design; side or center drain condensate pan. Meets ASHRAE Standard 62
- Cooling operating range from 30°F up to 115°F (-1°C up to 46°C).
- Dedicated vertical nd horizontal airflow models available, ordered as factory option. No special kits required
- Two-inch disposable return air filters
- Thru-the-bottom power entry capability
- Single point electric connections on field-installed electric heat units
- 24-volt control circuit protected with resettable circuit breaker and 75-VA transformer
- Belt drive, constant torque, permanently lubricated evaporator-fan motor on all size units.
- Totally enclosed condenser motors with permanently lubricated bearings
- State-of-the-art defrost control board, easily configured for defrost cycles of 30, 60, 90, or 120 minutes.
- Centralized Terminal Board for component and unit wiring connections.

- Loss of Charge, High-Pressure, and Freeze Protection switches
- Full perimeter base rail with built-in rigging adapters and fork truck slots.

Cabinet

- Access panels with easy grip handles
- Innovative, easy starting, no strip screw features 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

Refrigerant System

- Acutrol[™] refrigerant metering system
- Liquid line filter drier
- · Scroll compressors with internal line-break overload protection
- Indoor and outdoor coils constructed of aluminum fins mechanically bonded to seamless copper tubes.
- Removable gauge line plugs for reading refrigerant pressure with unit panels in place
- · Four-way reversing valve operation
- Suction Line Accumulator standard prevents excessive liquid flood back of refrigerant to the compressor even during the start of the defrost cycle.

Standard Parts Warranty

- 5-year electric heater (field-installed)
- 5-year compressor
- 1-year parts

SUBMITTAL DATA

Job Name
Architect
Engineer
Contractor
Unit Designation

PERFORMANCE DATA

Unit Operating Weight	lb
Cooling	
Net Total Capacity	Btuh
Net Sensible Capacity	Btuh
Compressor Power Input	kW
at Outdoor Air Temperature	°F
Indoor Entering Air db: °F wb	°F
CFM External Static Pressure	in wg
EER	
IEER	

Curb Weight			lb
Heating			
Power Input to Unit			kw
Integrated Capacity			Btuh
Indoor Operating Air Tempera	ature		°F db
Outdoor Air Temperature		°F (Winter D	esign)
Rating at 70% R.H. Outdoors		kW Heater Se	elected
		Heat/Cool	Ratio
Electrical Capacity Required			Btuh
СОР	High		Low

ELECTRICAL DATA

 Power Supply to Unit
 Volts
 Phase
 Hz

 Minimum Circuit Amps
 Maximum Overcurrent Protection (Fuse Only)
 Hz

FACTORY-INSTALLED OPTIONS (FIOPs)

- □ Open protocol RTU Direct Digital Control (DDC) LON, MODBUS, BACNET and Johnson N2 protocols.
- Dedicated vertical discharge and return air units
- Dedicated horizontal discharge and return air units
- ☐ Through the base connectors electric conduit
- □ EconoMi\$er[™] IV with controls and barometric relief (vertical only)
- □ EconoMi\$er2 with 4-20 mA actuator and barometric relief only (for RTU-MP/OPEN or 3rd party EMS system control)
- □ Two-position motorized outdoor air damper
- □ Non-fused disconnect switch (80 A Max)
- □ Powered 115-volt convenience outlet
- □ Non-powered 115-volt convenience outlet
- \Box High static indoor fan motor and drive
- □ Return Air smoke detector
- □ Supply Air smoke detector
- □ Smoke detectors return and supply air
- □ Pre-coated Al/Cu condenser coil
- E-coated Al/Cu condenser coil
- E-coated Al/Cu condenser and evaporator coil
- Cu/Cu condenser coil
- Cu/Cu condenser coil and evaporator coil
- \Box Condenser hail guard louvered style
- \Box CO₂ sensor

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* price pages for further information.

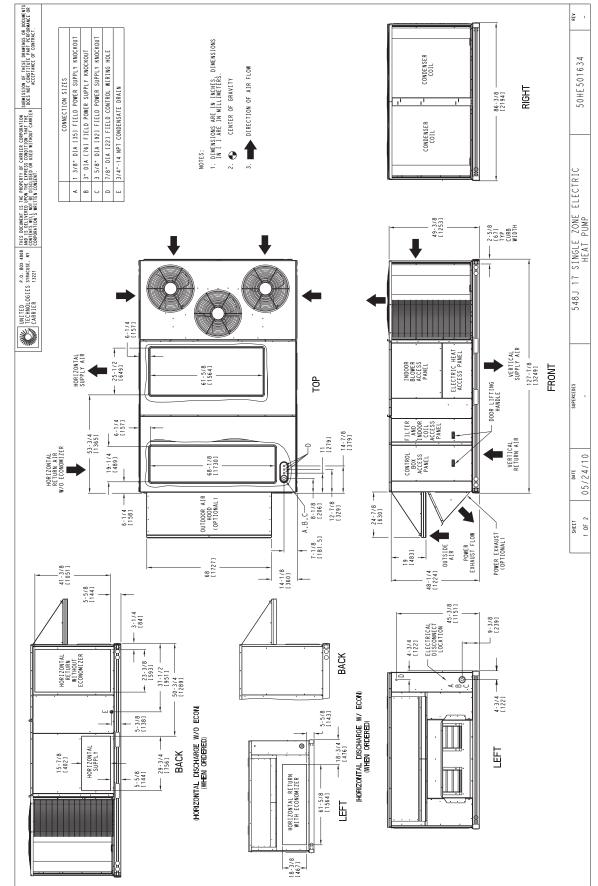
FIELD INSTALLED ACCESSORIES

- EconoMi\$er IV with controls and barometric relief
 vertical or horizontal
- □ EconoMi\$er2 with 4-20 mA actuator, barometric relief, and no microprocessor vertical or horizontal
- Dever Exhaust vertical or horizontal
- □ Electric heat
- □ Single point kit
- □ Two-position motorized outdoor air damper
- ☐ Manual outdoor air damper 25%
- □ Manual outdoor air damper 50%
- □ Roofcurb 14 inch (356mm) tall
- □ Roofcurb 24 inch (610mm) tall
- □ Thru-the-bottom utility connection kit
- □ Thru-the-curb utility connection kit
- □ Time Guard II compressor anti-cycle control
- \Box Outdoor coil hail guard louvered style
- \Box Low ambient head pressure controller, down to -20°F (-29°C)
- □ Thermostats and Sensors
- □ Phase Monitor
- □ Barometric Relief hood (for horizontal economizers)

Economizer Sensors

- □ Single Dry bulb control
- □ Differential Dry bulb control
- □ Single enthalpy control
- □ Differential enthalpy control
- \Box CO₂ wall mounted
- $\hfill\square$ CO2 duct mounted

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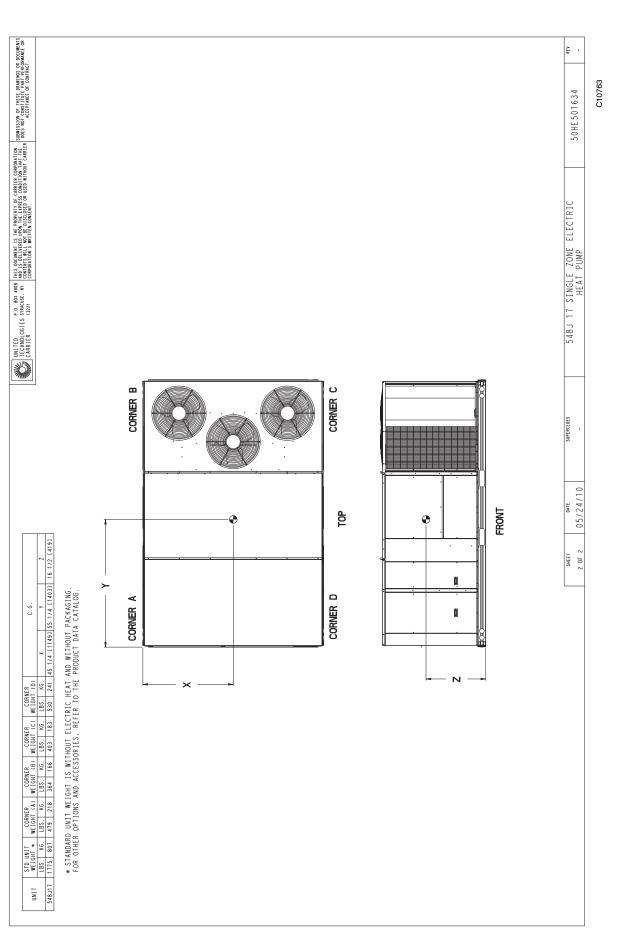


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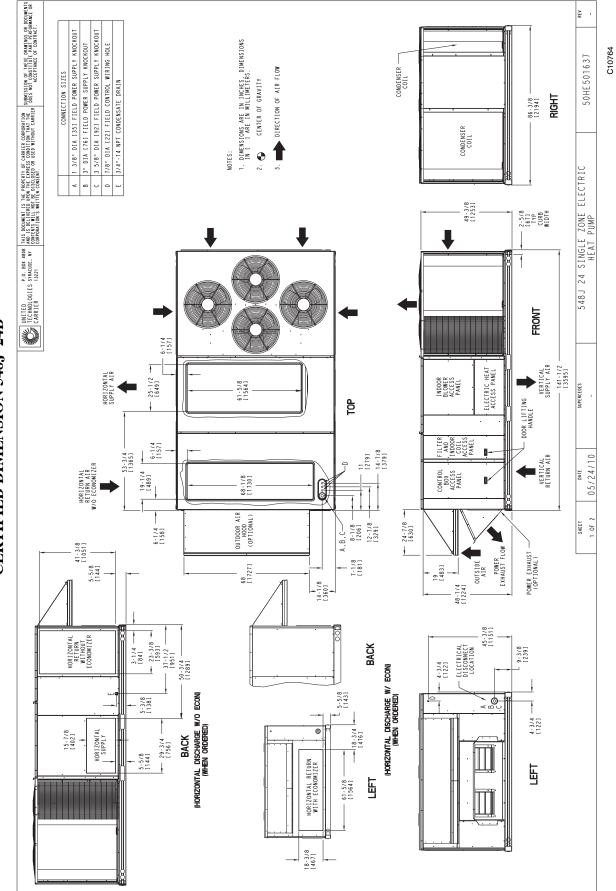
CERTIFIED DIMENSION 548J*17D

548J***D

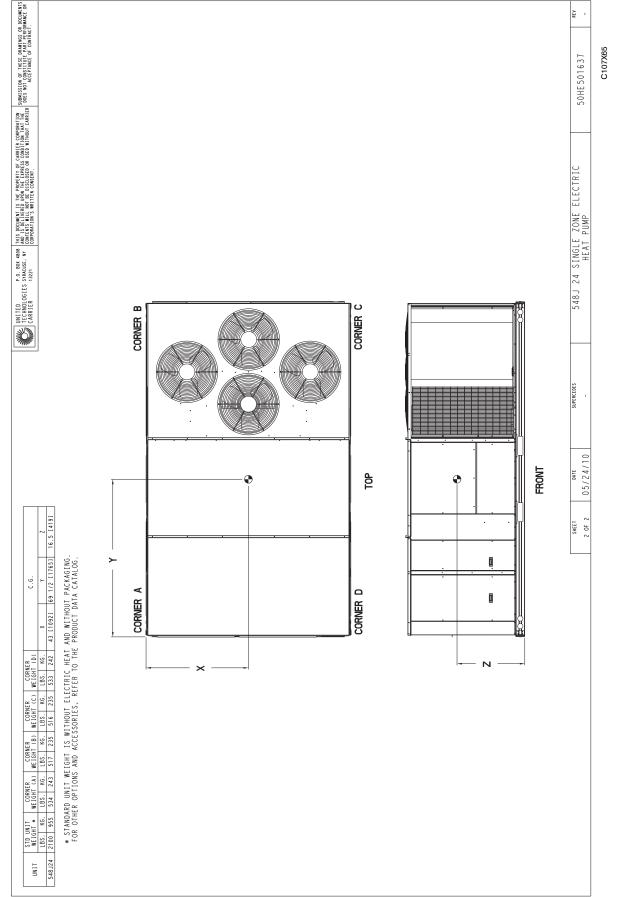
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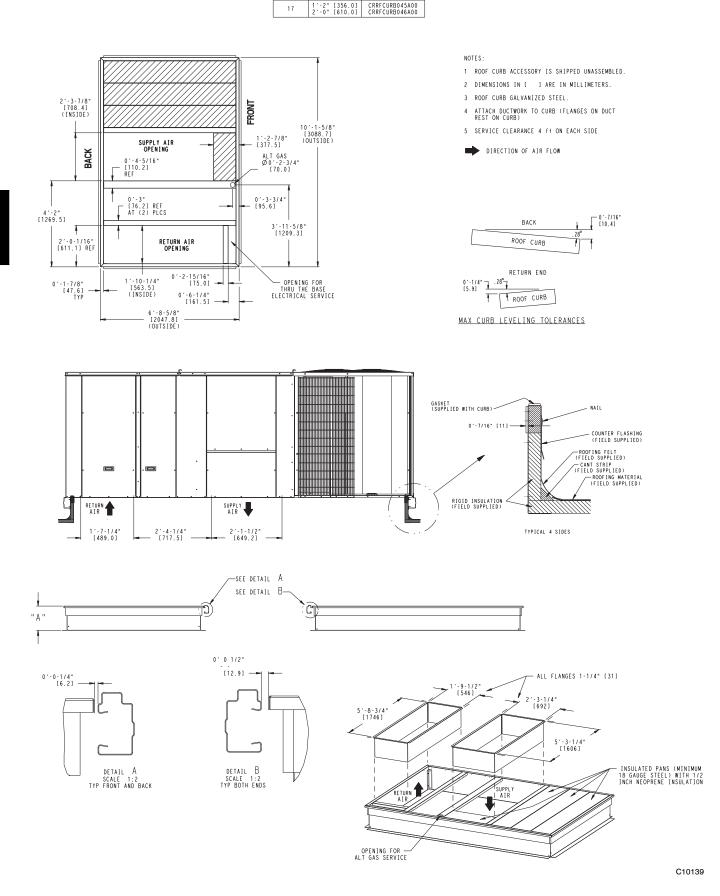


CERTIFIED DIMENSION 548J*24D



CERTIFIED DIMENSION 548J*24D

548J***D



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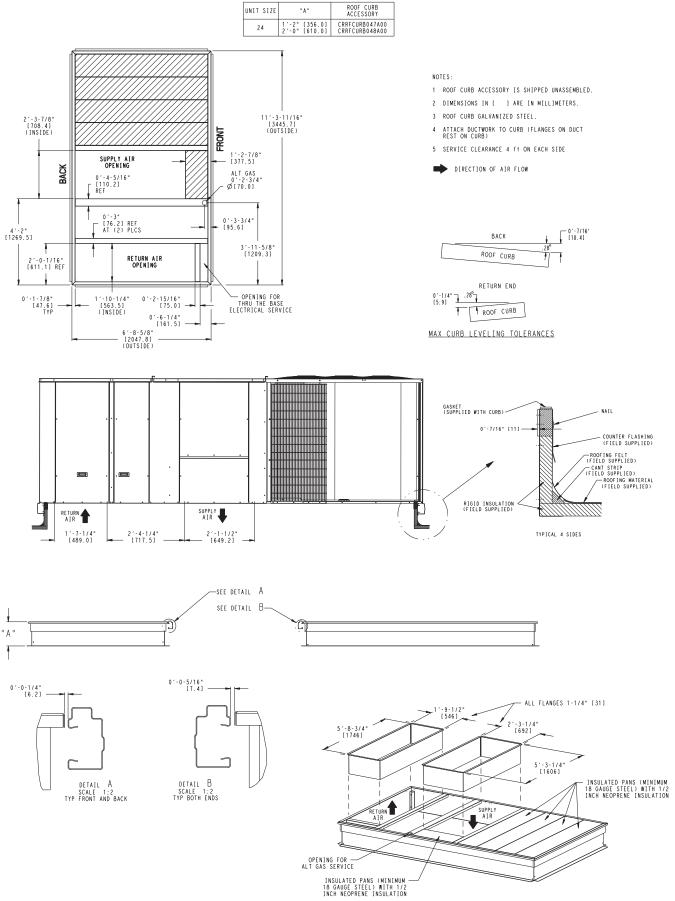
ROOF CURB DETAILS - SIZE 17 UNITS

" A "

UNIT SIZE

ROOF CURB ACCESSORY

ROOF CURB DETAILS - SIZE 24 UNITS



548J***D

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Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

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