

Submittal Data







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.

Certified to ISO 9001





DESCRIPTION

558J units are single-packaged 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 ASHRAE 90.1 efficiency levels.

STANDARD FEATURES

Base Unit

- SEER's up to 13.0 (04-06 sizes) (up to 13.4 with ECM motor)
- EER's up to 11.2 (up to 11.4 with ECM motor)
- Puron (R-410A) HFC refrigerant
- IEER 11.4 (07 size only)
- Rated in accordance with AHRI Standards 210/240 (04-06 sizes) and 340/360 (07 size)
- Designed in accordance with Underwriters' Laboratories Std 1995
- Listed by UL & CUL-Canada or ETL & ETL-Canada
- Single-stage cooling capacity control
- 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
- 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 ECM on 3 to 5 ton (-P voltage only) models and belt drive evaporator-fan motor and pulley combinations available on all models
- 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 facilitating simple safety circuit troubleshooting and simplified control box arrangement

Cabinet

- Access panels with easy grip handles and NO-STRIP screw collars
- 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
- Copper tube, aluminum fin coils with optional corrosion resistant coils. Corrosion resistant coils are not available for single phase (-J voltage) models.
 - **NOTE**: Production of single phase voltage models has been discontinued per DOE regulations. Single phase 558J models are only available until current inventories are exhausted.
- Removable gauge line plugs for reading refrigerant pressure with unit panels in place

STANDARD FEATURES (cont.)

Standard Parts Warranty

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

PERFORMANCE DATA

Unit Operating Weight	lb	Curb Weight	lb
Cooling		Heating (Electric)	
Gross Total Capacity:	Btuh	Heating Capacity:	
at Condenser Air Temperature		Stage 1	Btuh
Gross Sensible Capacity:	Btuh	Stage 2	Btuh
Compressor Power Input:	kW	Heating Capacity Total	Btuh
Indoor Entering db°F wb	°F	Stage 1	kW
AirflowCFM External Static Pressur	re in.wg	Stage 2	kW
Indoor Fan Motor Size		Heating Capacity Total	kW
Exhaust Fan Motor Size	Нр		
Power Supply to Unit		CAL DATA	Ша
Power Supply to Unit Minimum Circuit Amps		mum Overcurrent Protection	
,			
	SUBMIT	TAL DATA	
Job Name			
Architect			
Engineer			
Contractor			
Unit Designation			

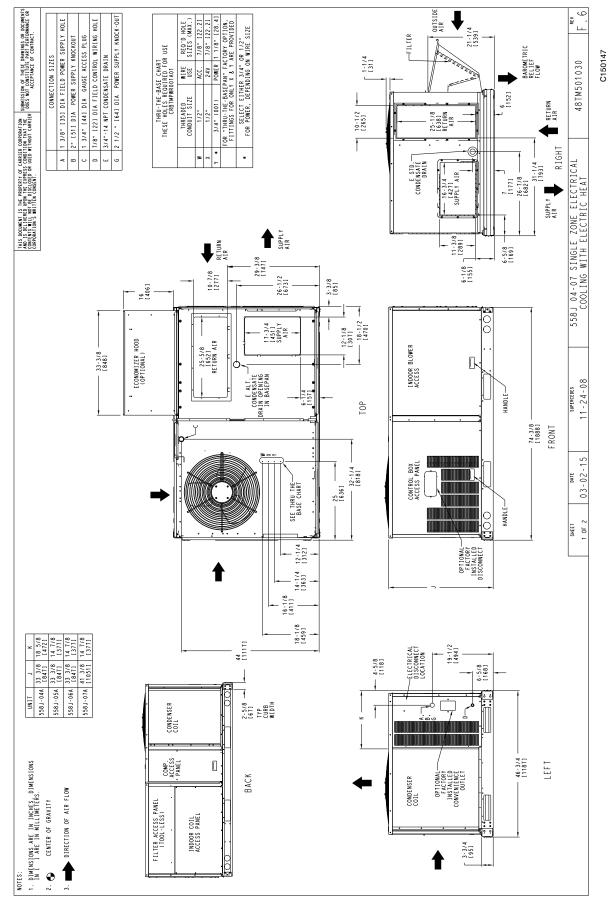
FACTORY-INSTALLED OPTIONS (FIOPs)

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☐ Economizer with DRY BULB sensing and barometric relief*	☐ RTU Open multi-protocol controller communicates to LON, MODBUS, BACNET and Johnson N2 protocols
Standard Air Leak Dampers — ○ Models with W7212 controller provides standard	☐ Through the base connectors for electric conduit
non-diagnostic control. EconoMi\$er IV. Models with W7220 controller meets California	☐ Stainless steel gas heat exchanger (includes tubes, vestibule plate and collector box)
Title 24 (section 120.2) Fault Detection and Diagnostic (FDD) requirements. EconoMi\$er X.	 □ Perfect Humidity[™] dehumidification system (NOTE: Only available on size 07 units)
 Models with RTU Open controller meets California Title 24 (section 120.2) Fault Detection and 	☐ 2 position motorized outdoor air damper*
Diagnostic (FDD) requirements. EconoMi\$er 2.	□ Non-fused disconnect
☐ Economizer with Enthalpy sensing and barometric	☐ Powered 115-volt convenience outlet*
relief*	
Standard Air Leak Dampers — Models with W7212 controller provides standard	☐ Non-powered 115-volt convenience outlet
non-diagnostic control. EconoMi\$er IV.	☐ High static evaporator fan motor
O Models with W7220 controller meets California	☐ Return Air smoke detector
Title 24 (section 120.2) Fault Detection and Diagnostic (FDD) requirements. EconoMi\$er X.	☐ Supply Air smoke detector
Models with RTU Open controller meets California	☐ CO ₂ sensor
Title 24 (section 120.2) Fault Detection and	☐ Condenser hail guard - louvered style*
Diagnostic (FDD) requirements. EconoMi\$er 2.	☐ Special coating protection for evaporator
☐ Economizer with DRY BULB sensing and barometric relief*	and condenser coils*
ULTRA LOW LEAK Air Dampers — ○ Models with W7220 controller meets California Title 24 (section 120.2) Fault Detection and Diagnostic (FDD) requirements, has return, outside air and relief damper leakage that meets Title 24	* Not available for single phase (-J voltage) models. NOTE: Production of single phase voltage models has been discontinued per DOE regulations. Single phase 558J models are only available until current inventories are exhausted.
(section 140.4 and ASHRAE 90.1) requirements - plus 5 year limited parts warranty. EconoMi\$er X.	OPTIONAL WARRANTIES
 Models with RTU Open controller meets California 	☐ Complete Unit Parts only up to 5 years
Title 24 (section 120.2) Fault Detection and	☐ Complete Unit Parts and Labor up to 5 years
Diagnostic (FDD) requirements, has return, outside air and relief damper leakage that meets Title 24	
(section 140.4 and ASHRAE 90.1) requirements – plus 5 year limited parts warranty. EconoMi\$er 2.	Many other optional warranties are available. See the <i>Commercial Start-Up and Optional Extended Warranty Price</i> price pages for further information.
☐ Economizer with Enthalpy sensing and barometric	
relief* ULTRA LOW LEAK Air Dampers —	
 ○ Models with W7220 controller meets California Title 24 (section 120.2) Fault Detection and Diagnostic (FDD) requirements, has return, outside air and relief damper leakage that meets Title 24 (section 140.4 and ASHRAE 90.1) requirements - plus 5 year limited parts warranty. EconoMi\$er X. ○ Models with RTU Open controller meets California Title 24 (section 120.2) Fault Detection and Diagnostic (FDD) requirements, has return, outside air and relief damper leakage that meets Title 24 (section 140.4 and ASHRAE 90.1) requirements - plus 5 year limited parts warranty. EconoMi\$er 2. 	

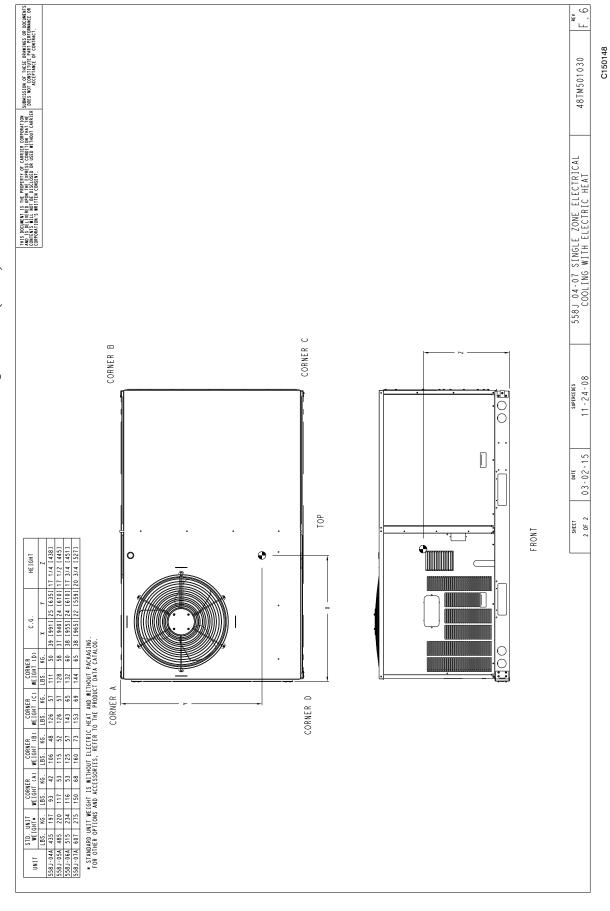
FIELD INSTALLED ACCESSORIES

L Economizer with DRY BULB sensing and parometric	☐ Electric neater(s)
relief	☐ Power exhaust - prop fan design
Standard Air Leak Dampers — ○ Models with W7212 controller provides standard	☐ Two-position motorized outdoor air damper
non-diagnostic control. EconoMi\$er IV.	☐ Manual outside air damper 25%
 Models with W7220 controller meets California Title 24 (section 120.2) Fault Detection and 	☐ Manual outside air damper 50%
Diagnostic (FDD) requirements. EconoMi\$er X.	☐ Roofcurb - 14 inch (356mm) tall
 Models with RTU Open controller meets California Title 24 (section 120.2) Fault Detection and 	☐ Roofcurb - 24 inch (610mm) tall
Diagnostic (FDD) requirements. EconoMi\$er 2.	☐ Thru-the-bottom connections-electrical
☐ Economizer with Enthalpy sensing and barometric	☐ Condenser hail guard - louvered style
relief	☐ Phase monitor (loss of phase/phase reversal)
Standard Air Leak Dampers — ○ Models with W7212 controller provides standard	* * * /
non-diagnostic control. EconoMi\$er IV.	☐ Winter start kit, down to 25°F (-4°C)
O Models with W7220 controller meets California	☐ Fan/Filter status switch
Title 24 (section 120.2) Fault Detection and Diagnostic (FDD) requirements. EconoMi\$er X. ○ Models with RTU Open controller meets California	☐ Low ambient head pressure controller, down to 0°F (-18°C)
Title 24 (section 120.2) Fault Detection and Diagnostic (FDD) requirements. EconoMi\$er 2.	☐ Low ambient head pressure controller, down to -20°F (-29°C)
☐ Economizer with DRY BULB sensing and barometric	☐ Time Guard II compressor anti-cycle protection
relief	☐ Return Air smoke detector
ULTRA LOW LEAK Air Dampers — ○ Models with W7220 controller meets California	☐ Supply Air smoke detector
Title 24 (section 120.2) Fault Detection and Diagnostic (FDD) requirements, has return, outside	☐ Thermostats and Sensors
air and relief damper leakage that meets Title 24	Economizer Sensors
(section 140.4 and ASHRAE 90.1) requirements. EconoMi\$er X.	☐ Single Dry bulb control
○ Models with RTU Open controller meets California	☐ Differential Dry bulb control
Title 24 (section 120.2) Fault Detection and	☐ Single enthalpy control
Diagnostic (FDD) requirements, has return, outside air and relief damper leakage that meets Title 24	☐ Differential enthalpy control
(section 140.4 and ASHRAE 90.1) requirements.	\square CO ₂ - wall mounted
EconoMi\$er 2.	□ CO ₂ - duct mounted
☐ Economizer with Enthalpy sensing and barometric relief	☐ CO ₂ - unit mounted
ULTRA LOW LEAK Air Dampers —	CO2 - unit mounted
O Models with W7220 controller meets California	
Title 24 (section 120.2) Fault Detection and	
Diagnostic (FDD) requirements, has return, outside air and relief damper leakage that meets Title 24	
(section 140.4 and ASHRAE 90.1) requirements.	
EconoMi\$er X.	
 Models with RTU Open controller meets California Title 24 (section 120.2) Fault Detection and 	
Diagnostic (FDD) requirements, has return, outside	
air and relief damper leakage that meets Title 24	
(section 140.4 and ASHRAE 90.1) requirements. EconoMi\$er 2.	

CERTIFIED DIMENSION 558J*04-07



CERTIFIED DIMENSION 558J*04-07 (cont)



ROOF CURB DETAILS

