48HC 04-06 WEATHERMASTER® SERIES
SINGLE PACKAGE ROOFTOP
GAS HEAT/ELECTRIC COOLING UNITS WITH
OPTIONAL ENERGYX®

— PERFORMANCE DATA

— CERTIFIED DIMENSION PRINTS

— CERTIFIED ROOF CURB DETAILS
DESCRIPTION

48HC single package rooftop units are high-efficiency, single-packaged electric cooling, gas heating units that are pre-wired and pre-charged with Puron® (R-410A) HFC refrigerant. The EnergyX® is a factory-installed and integrated Energy Recover Ventilator (ERV) which, when installed, provides total integration for optimum performance. The units are factory tested in both heating and cooling modes. 48HC rooftop units exceed the DOE-2018 (Department of Energy), ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers), and IECC-2015 (International Energy Conservation Code) minimum efficiency requirements.

FEATURES

Standard Base Unit
- Puron (R-410A) HFC refrigerant
- SEERs up to 15.6 and EERs up to 13.0
- Direct drive (multi-speed/torque) ECM indoor fan motor
- Rated in accordance with AHRI Standards 210/240
- Designed in accordance with Underwriters Laboratories Std 1995
- Listed by UL and CUL-Canada
- Single-stage cooling capacity control
- Non-corrosive composite sloping design; side or center drain condensate pan. Meets ASHRAE Standard 62
- Cooling operating range up to 125°F (52°C), and down to 35°F (2°C) standard. See factory installed options and field installed accessories for lower operating range capabilities
- 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
- Belt drive evaporator-fan motor and pulley on all three phase voltage models
- Electric Drive x13 (5 speed/torque) motor (Standard on all single phase and three phase voltage models)
- 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
- Centralized terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement
- ASHRAE 90.1-2016, IECC-2015, and DOE-2018 energy compliant

Standard Base Unit with EnergyX
- Combined Efficiency Factors (CEF) up to 18.0+
- Energy recovery rated and certified in accordance with AHRI Standard 1060-2000
- Help reduce mechanical cooling load at design temperatures up to 4 tons per 1000 cfm of outside air
- Helps reduce mechanical heating load up to 2.5 ton per 1000 cfm of outside air
- Dedicated vertical airflow models available. Horizontal curb kit available as field-installed accessory

ComfortLink Controls that provide:
- Scrolling marquee display
- Time schedule and Service run test
- Service diagnostics, alarms, and alarm history
- Sensor or thermostat sensor capabilities
- Outside air and exhaust air CFM monitoring and display capabilities
- Variable speed energy recovery fans for Demand Controlled Ventilation

Cabinet
- 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

Refrigerant System
- TXV refrigerant metering device with removable power element on each circuit
- 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 (-3 voltage) models.
- Removable gauge line plugs for reading refrigerant pressure with unit panels in place

Gas Heat
- 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
- Dedicated 3-5 ton “Low NOx” models available that meet California Air Quality Management NOx requirement of 40 nanograms/joule or less. Low NOx models include stainless steel heat exchangers
- Gas efficiencies up to 82%
- Inducted draft combustion
- Redundant gas valve, with up to 2 stages of heating
- Flame roll-out safety protector
- Solid-state electronic direct spark ignition system

Standard Limited Parts Warranty
- 15-year gas heat exchanger parts - Stainless Steel
- 10-year gas heat exchanger parts - Aluminized
- 5-year compressor parts
- 5-year energy wheel parts
- 5-year Ultra Low Leak Economizer parts
- 1-year parts
PERFORMANCE DATA

Unit Operating 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 (GAS)

Heating Capacity:

Stage 1 __________________________ Btuh

Stage 2 __________________________ Btuh

Heating Capacity Total _______________________ Btuh

Stage 1 __________________________ kW

Stage 2 __________________________ kW

Heating Capacity Total _______________________ 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®
  Low Leak Air Dampers —
  ○ Models with W7212 controller provide standard non-diagnostic control (EconoMiSer® IV system).
  ○ Models with W7220 controller meet California Title 24-2016 (Section 120.2) for Fault Detection and Diagnostic (FDD) requirements (EconoMiSer X system).
  ○ Models with RTU Open controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMiSer X system).
  ○ Models with ComfortLink controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMiSer X system).
  ○ Models with PremierLink™ controller. PremierLink controller does not meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirement (EconoMiSer 2 system).

☐ Economizer with ENTHALPY Sensing and Barometric Relief®
  Low Leak Air Dampers —
  ○ Models with W7212 controller provide standard non-diagnostic control (EconoMiSer IV system).
  ○ Models with W7220 controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMiSer X system).
  ○ Models with RTU Open controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMiSer X system).
  ○ Models with ComfortLink controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMiSer X 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 120.2.1 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 air, and relief air damper leakage requirements economizers meet IECC-2012 section C402.4.5.2 and, IECC-2015 sections C402.4.3 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 (EconoMiSer 2 system).

  ○ Models with ComfortLink 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. 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 (EconoMiSer 2 system).

  ○ Models with SystemVu™ 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 C402.4.3 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 (EconoMiSer 2 system).

* Not available for single phase (-3 voltage) models.
FACTORY-INSTALLED OPTIONS (CONT)

☐ Economizer with DRY BULB Sensing and Barometric Relief* (cont)

ULTRA LOW LEAK Air Dampers —

- Models with I/O Flex 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. Models with I/O Flex 6126 controller 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*

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® 2 system).

- Models with ConfortLink 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).

- 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).

- Models with PremierLink™ 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).

- Models with SystemVu™ 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).

- Models with I/O Flex 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. Models with I/O Flex 6126 controller 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).

* Not available for single phase (-3 voltage) models.
## FACTORY-INSTALLED OPTIONS (CONT)

- RTU Open multi-protocol controller communicates to BACnet®, Modbus†, LonWorks**, and Johnson N2 protocols
- CCN Direct Digital Control (DDC) - PremierLink™ controller††,***
- Through the base connectors for gas and electric conduit/piping
- Stainless steel gas heat exchanger (includes tubes, vestibule plate and collector box)
- ComfortLink controller
- Humidi-MiZer® adaptive dehumidification system
- Two-position motorized outdoor air damper††,***
- Low Ambient Controller for cooling operation down to 0°F (–18°C)
- 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
- Condenser hail guard-louvered style
- Special coating protection for evaporator and condenser coils***
- Hinged panels for easy unit access
- Foil faced insulation throughout entire cabinet
- Cu/Cu (Indoor) Coils***
- EnergyX Energy Recovery***
- EnergyX with Economizer***
- EnergyX with Frost Protection***
- EnergyX with Frost Protection and Economizer***

### 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.

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* 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.
+++ Not available on models equipped with EnergyX.
++++ Not available on single-phase models.
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$er® IV system).
   ○ Models with W7220 controller meet California Title 24-2016 Section 120.2.i for Fault Detection and Diagnostic (FDD) requirements (EconoMi$er X system).
   ○ Models with RTU Open controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirements (EconoMi$er 2 system).
   ○ Models with ComfortLink controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirements (EconoMi$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 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 — plus 5 year limited parts warranty (EconoMi$er 2 system).
   ○ Models with PremierLink meet California Energy Commission Title 24-2016 perspective section 140.4 (damper leakage, etc.) and mandatory section 120.2.i for Fault Detection and Diagnostic requirements. Economizers meet ASHRAE 90.1-2016 damper leakage requirements and IECC-2015 section C403.2.4.7 for Fault Detection and Diagnostic requirements. NOTE: IECC-2015 section C403.2.4.7.1 requires differential return air sensor, which must be ordered separately. Outside air, return air, and relief air (volume) dampers are AMCA rated — plus 5 year limited parts warranty (EconoMi$er 2 system).
   ○ 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 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).
   ○ Models with ComfortLink 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.

* Not available for single phase (-3 voltage) models.
Economizer with DRY BULB Sensing and Barometric Relief® (cont)

ULTRA LOW LEAK Air Dampers —
- Models with I/O Flex 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 C402.4.7 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).

Economizer with ENTHALPY Sensing and Barometric Relief® (cont)

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, economical 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 ComfortLink 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 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 X system).

* Not available for single phase (-3 voltage) models.
<table>
<thead>
<tr>
<th>FIELD-INSTALLED ACCESSORIES (CONT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Power exhaust — prop fan design</td>
</tr>
<tr>
<td>☐ Two-position motorized outdoor air damper</td>
</tr>
<tr>
<td>☐ Manual outside air damper 25%</td>
</tr>
<tr>
<td>☐ Manual outside air damper 50%</td>
</tr>
<tr>
<td>☐ Roof curb — 14 inch (356 mm) tall</td>
</tr>
<tr>
<td>☐ Roof curb — 24 inch (610 mm) tall</td>
</tr>
<tr>
<td>☐ Horizontal roof curb adapts to standard base unit and directs airflow horizontally</td>
</tr>
<tr>
<td>☐ Thru-the-bottom connections, electrical only</td>
</tr>
<tr>
<td>☐ Thru-the-bottom connections, electrical and gas</td>
</tr>
<tr>
<td>☐ Thru-the-bottom electrical, control, and gas connection kit</td>
</tr>
<tr>
<td>☐ Thru-the-bottom electrical and thru-the-curb gas connection kit</td>
</tr>
<tr>
<td>☐ Condenser hail guard, louvered style</td>
</tr>
<tr>
<td>☐ Flue shield</td>
</tr>
<tr>
<td>☐ Flue discharge deflector</td>
</tr>
<tr>
<td>☐ Liquid propane (LP) conversion kit</td>
</tr>
<tr>
<td>☐ High altitude conversion kit</td>
</tr>
<tr>
<td>☐ Phase monitor (loss of phase/phase reversal)</td>
</tr>
<tr>
<td>☐ Winter start kit, down to 25°F (-4°C)</td>
</tr>
<tr>
<td>☐ Low ambient head pressure controller, down to 0°F (-18°C)</td>
</tr>
<tr>
<td>☐ Low ambient head pressure controller, down to –20°F (-29°C)</td>
</tr>
<tr>
<td>☐ Time Guard II compressor anti-cycle protection</td>
</tr>
<tr>
<td>☐ Thermostats and Sensors</td>
</tr>
<tr>
<td>☐ Motor status indicator switch</td>
</tr>
<tr>
<td>☐ Filter status indicator switch</td>
</tr>
<tr>
<td>Economizer Sensors</td>
</tr>
<tr>
<td>☐ Single dry bulb control</td>
</tr>
<tr>
<td>☐ Differential dry bulb control</td>
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<tr>
<td>☐ Single enthalpy control</td>
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<tr>
<td>☐ Differential enthalpy control</td>
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<tr>
<td>☐ CO₂ — wall mounted</td>
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<tr>
<td>☐ CO₂ — duct mounted</td>
</tr>
<tr>
<td>☐ CO₂ — unit mounted</td>
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UNIT DIMENSION PRINT

Fig. 1 — 48HC*04-06 Base Unit Dimensions
Fig. 1 — 48HC'04-06 Base Unit Dimensions (cont)
Fig. 1 — 48HC*04-06 Base Unit Dimensions (cont)
Fig. 2 — 48HC*04-06 with EnergyX® Unit Dimensions
**UNIT DIMENSIONS PRINT**

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**WARNING:**
Do not lift unit through fork lift openings in unit base rail. Use proper lifting equipment as indicated on label. 

**NOTE:**
Unit is not designed to have overhead obstruction. Contact application engineering for guidance on any application planning overhead obstruction or for vertical clearances.

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**Fig. 2 — 48HC*04-06 with EnergyX® Unit Dimensions (cont)**
Fig. 3 — 48H*C04-06 Roof Curb Accessory Dimensions (without ERV Displayed)