Submittal Data

— PERFORMANCE DATA
— CERTIFIED DIMENSION PRINTS
— FAN COIL ACCESSORY DIMENSION PRINTS
The 40RUQ units are completely packaged direct expansion heat pump air-handling units offering the ultimate in installation ease and flexibility. Combined with Carrier 38AUQ Series heat pump condensing units, these packaged air handling units offer system capacities from 6 to 20 tons. These units may be installed in either the vertical or horizontal configuration with no modifications. Powerful fan systems allow easy adaptation to existing ductwork.

**STANDARD FEATURES**

- Puron (R-410A) HFC refrigerant
- Cleanable insulation treated with an anti-microbial agent
- Two slopped condensate pans on each unit for horizontal or vertical applications
- 2-inch filters
- Powerful belt-driven forward curved fans
- Factory-installed fan motor and contactor
- Refrigerant metering device (TXV’s) — factory-installed
- High efficient copper tube / aluminum fin refrigerant coil design
- Easy maintenance — removal of a single panel allows access to virtually all components
- Single refrigerant circuit on 6 to 10 ton units, dual refrigerant circuit on 15 and 20 ton units.
- Single blower on 6 to 10 ton units
- Dual blower on 15 and 20 ton units
- 24-volt terminal block for control wiring connection
- Optional Staged Air Volume (SAV™) system with 2-speed indoor fan VFD controller (07-25 models)
- Standard one-year warranty

**PERFORMANCE DATA**

Total Cooling Capacity ________________ MBtuh
Sensible Cooling Capacity ________________ MBtuh
Air Quantity ________________ Cfm
Entering Air ___________ °F db ___________ °F wb

External Static Pressure ________________ in. wg
RPM ___________ , BHP ___________
Saturated Suction Temperature ________________ °F
Total Heating Capacity ________________ MBtuh

**ELECTRICAL DATA**

Power Supply to Unit ________________ Volts ___________ Phase ___________ Hz
Minimum Circuit Amps ________________ Maximum Overcurrent Protection ________________
FACTORY-INSTALLED OPTIONS (FIOPs)

- Fan Motor Options
  - Standard Motor/Standard Drive
  - Standard Motor/Medium Drive
  - High Motor/High Drive
- Staged Air Volume (SAV) system utilizes a Variable Frequency Drive (VFD) to automatically adjust the indoor fan motor for 2 speed indoor fan motor control. Conforms to ASHRAE 90.1 2010 Standard – section 6.4.3.10.b. Available on 07 to 25 models with two stage cooling control.

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

- Economizer - Enthalpy Controlled - Standard Leak design
- Economizer – temperature dry bulb controlled – Ultra LOW LEAK - EconoMi$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator. Supply and outdoor air sensors, and CO2 sensor compatible, for use in electro mechanical controls only. Also includes return and outside air sensors, and CO2 sensor compatible, for use in electro mechanical controls only. Controller meets California Title 24 Section 120.2 Fault Detection and Diagnostic (FDD) requirements.
- Enthalpy Control for W7220 Controller only, (One required for single enthalpy, two required for different enthalpy)
- Display Kit for Variable Frequency Drive (VFD), Staged Air Volume System. Allows additional set up and diagnostics of the unit VFD controller. Can be unit mounted or used with any other compatible VFD model as a reusable device.
- Electric Heat: _______ Volts, _______ kW
- Hot Water Coil (2 row)
- Condensate Overflow Switch Assembly
- Discharge Plenum*
- Discharge Plenum (painted)*
- Return Air Grille
- Return Air Grille (painted)
- Steam Coil (1 row)
- Floor Mount Base (Subbase)
- Floor Mount Base (Subbase) - Painted
- Overhead Suspension Brackets
- Transformer Relay Package
- CO2 Room Sensor - Wall mount
  (Aspirator Box required for duct mounting)
- Thermostats

* Discharge Plenums are shipped knocked down and require field assembly. Cannot be used with electric heat or horizontal application.
CERTIFIED DIMENSION 40RUQ16 & 25

TOP

ACCESS FOR CONTROLS METER AND TEST

LEFT SIDE

CONDENSATE DRAIN ACCEPTS 1" NPT FEMALE OR 1 1/4" FEMALE FITTING

FRONT

RETURN AIR DUCT

RIGHT SIDE

ALTERNATE RETURN AIR

ACCESS FOR CONTROLS METER AND TEST

NOTES:
1. DIMENSIONS IN E & I ARE IN MILLIMETERS.
2. DIRECTIONS OF AIRFLOW
3. RECOMMENDED CLEARANCE
   FRONT 2 FT 3 IN. (692 MM)
   SIDE 2 FT 3 IN. (692 MM)
   BACK 3 FT (914 MM)
4. LOCAL CODES OR AUTHORITIES MAY PREVAIL
5. LIMITS AND PARTS SUPPLIED BY CARVER

ACCESSORY

EXHAUST AIR DUCT 40RUQ000028
RETURN COIL 40RUQ000027
CONCEDED 40RUQ000026
SEMI RATED 40RUQ000025
ELECTRONIC HEAT 40RUQ000024

UNRELEASED DATA

C14201
CERTIFIED DIMENSION - ACCESSORIES FOR 40RUQ07, 08, 12

OVERHEAD SUSPENSION ACCESSORY

DISCHARGE PLENUM ACCESSORY
RETURN AIR GRILLE ACCESSORY
SUBBASE ACCESSORY
CERTIFIED DIMENSION - ACCESSORIES FOR 40RUQ16 & 25

OVERHEAD SUSPENSION ACCESSORY

DISCHARGE PLENUM ACCESSORY

RETURN AIR GRILLE ACCESSORY

SUBBASE ACCESSORY
## CERTIFIED DIMENSION - ACCESSORIES FOR 40RUQ07, 08, 12

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<th>STEAM COIL</th>
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<tr>
<td>A</td>
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<td>1 1/2&quot; HFT (39,1)</td>
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<td>B</td>
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<td>C</td>
<td>2 3/8&quot; (50,0)</td>
<td>3 1/8&quot; (78,1)</td>
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<td>D</td>
<td>4 7/8&quot; (123,0)</td>
<td>3 1/8&quot; (78,1)</td>
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<tr>
<td>E</td>
<td>2 1/8&quot; (54,7)</td>
<td>4 1/16&quot; (105,0)</td>
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<tr>
<td>F</td>
<td>1 11 5/16&quot; (369,2)</td>
<td>1 1/8&quot; (28,6)</td>
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<td>G</td>
<td>3 3/4&quot; (95,2)</td>
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**HOT WATER COIL ACCESSORY**

**STEAM COIL ACCESSORY**

**ECONOMIZER ACCESSORY**
CERTIFIED DIMENSION - ACCESSORIES FOR 40RUQ16 & 25

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<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>A</td>
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<td>E</td>
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<td>F</td>
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<td>1 1/4&quot; (31.7)</td>
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<tr>
<td>G</td>
<td>6 1/2&quot; (165.1)</td>
<td>6 1/2&quot; (165.1)</td>
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</table>

ECONOMIZER ACCESSORY

HOT WATER COIL ACCESSORY

STEAM COIL ACCESSORY