Submittal Data

- PERFORMANCE DATA
- CERTIFIED DIMENSION PRINTS
- FAN COIL ACCESSORY
  DIMENSION PRINTS
DESCRIPTION
The 40RUS units are compact chilled water packaged air-handling units offering the ultimate in installation ease and flexibility. 40RUS units range from 7 1/2 up to 30 tons in capacity. These units may be installed in either the vertical or horizontal configuration with no modifications. Powerful fan systems allow easy adaptation to existing ductwork. Heating capability is provided by accessory electric heaters, hot water coils, or steam coils.

STANDARD FEATURES

- Cleanable insulation treated with an anti-microbial agent
- Two slopped condensate pans on each unit for horizontal or vertical applications
- 2-inch filters
- 3 Row copper tube, aluminum fin coil design
- Powerful belt-driven forward curved fans
- Factory-installed fan motor and contactor
- Easy maintenance — removal of a single panel allows access to virtually all components
- Single blower on 7 1/2 to 10 ton units
- Dual blower on 12 1/2 to 30 ton units
- 24-volt terminal block for control wiring connection
- Optional Staged Air Volume (SAV™) system with 2-speed indoor fan VFD controller (08-30 models)
- Standard one-year warranty

PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Total Cooling Capacity</th>
<th>MBtuh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensible Cooling Capacity</td>
<td>MBtuh</td>
</tr>
<tr>
<td>Air Quantity</td>
<td>Cfm</td>
</tr>
<tr>
<td>Entering Air °F db</td>
<td>°F wb</td>
</tr>
<tr>
<td>Entering Water Temperature</td>
<td>°F</td>
</tr>
<tr>
<td>Chilled Water Flow Rate</td>
<td>GPM</td>
</tr>
<tr>
<td>External Static Pressure</td>
<td>in. wg</td>
</tr>
<tr>
<td>RPM</td>
<td>BHP</td>
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<tr>
<td>Total Heating Capacity</td>
<td>MBtuh</td>
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</table>

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Power Supply to Unit</th>
<th>Volts</th>
<th>Phase</th>
<th>Hz</th>
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<tbody>
<tr>
<td>Minimum Circuit Amps</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Overcurrent Protection</td>
<td></td>
<td></td>
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</tbody>
</table>
SUBMITTAL DATA

Job Name

Architect

Engineer

Contractor

Unit Designation

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 08 to 30 models with two stage cooling control.

☐ Painted Cabinet

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 damper leakage that meets Title 24 section 140.4 requirements. 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 Assemble
☐ 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
☐ 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 40RUS08, 10, 12

LEFT SIDE

TOP

FRONT

RIGHT SIDE

UNIT | WALL RECESS (INCHES)
---|---
40RUS-08 | 35.0 H x 14.0 W x 11.0 D
40RUS-10 | 40.0 H x 14.0 W x 11.0 D
40RUS-12 | 45.0 H x 14.0 W x 11.0 D

ACCESS FOR CONTROLS, WATER AND HEAT

NOTE:
1. DIMENSIONS IN INCHES
2. DIRECTIONS OF AIRFLOW
3. RECOMMENDED CLEARANCE
4. LEFT SIDE: 2.0 H x 2.0 W x 3.0 D
5. COVER PLANE IS FACTORY SUPPLIED AND FIELD INSTALLED

EXTRACTION I.D.: 99050024

40RUS A / 9 / 2010 / 08 / 10 / 12

01/23/12

04/23/12

40RUS00024

F
CERTIFIED DIMENSION - ACCESSORIES FOR 40RUS08, 10, 12

OVERHEAD SUSPENSION ACCESSORY

RETURN AIR GRILLE ACCESSORY

SUBBASE ACCESSORY

OVERHEAD SUSPENSION ACCESSORY

RETURN AIR GRILLE ACCESSORY

SUBBASE ACCESSORY

DISCHARGE PLENUM ACCESSORY
CERTIFIED DIMENSION - ACCESSORIES FOR 40RUS14, 16, 25

OVERHEAD SUSPENSION ACCESSORY
RETURN AIR GRILLE ACCESSORY
SUBBASE ACCESSORY

RETURN AIR GRILLE ACCESSORY
DISCHARGE PLENUM ACCESSORY

DISCHARGE AIR
RETURN AIR

1/2" [12.71]
7'-11 1/2" [2429.7]

3/8" THREADED 300 FIELD SUPPLIED TYP 4 PLATES

C09207
CERTIFIED DIMENSION - ACCESSORIES FOR 40RUS08, 10, 12

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>HOT WATER COIL</th>
<th>STEAM COIL</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>1 1/2&quot; HWT (39.1)</td>
<td>1 1/2&quot; HWT (39.1)</td>
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<tr>
<td>B</td>
<td>1 1/2&quot; HWT (39.1)</td>
<td>2 1/2&quot; HWT (63.5)</td>
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<tr>
<td>C</td>
<td>2 3/8&quot; (60.5)</td>
<td>3 1/8&quot; (78.4)</td>
</tr>
<tr>
<td>D</td>
<td>4 7/8&quot; (123.2)</td>
<td>3 1/8&quot; (78.4)</td>
</tr>
<tr>
<td>E</td>
<td>2 7/8&quot; (72.4)</td>
<td>4 8/10&quot; (115.8)</td>
</tr>
<tr>
<td>F</td>
<td>5 1/2&quot; (140.1)</td>
<td>1 1/2&quot; (38.1)</td>
</tr>
<tr>
<td>G</td>
<td>3 1/4&quot; (82.6)</td>
<td>3 1/4&quot; (82.6)</td>
</tr>
</tbody>
</table>

HOT WATER COIL ACCESSORY
STEAM COIL ACCESSORY

ECONOMIZER ACCESSORY

ACCESS FOR REFRIGERATION
CERTIFIED DIMENSION - ACCESSORIES FOR 40RUS14, 16, 25

<table>
<thead>
<tr>
<th>DIMENSION</th>
<th>HOT WATER COIL</th>
<th>STEAM COIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2&quot; HFT [60.96]</td>
<td>1 1/2&quot; HFT [38.1]</td>
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<tr>
<td>B</td>
<td>2&quot; HFT [60.96]</td>
<td>2 1/2&quot; HFT [63.5]</td>
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<tr>
<td>C</td>
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<td>3 1/8&quot; [76.0]</td>
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<tr>
<td>D</td>
<td>4 7/8&quot; [124.5]</td>
<td>4 7/8&quot; [124.5]</td>
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<tr>
<td>E</td>
<td>5 1/4&quot; [133.4]</td>
<td>5 1/4&quot; [133.4]</td>
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<tr>
<td>F</td>
<td>1&quot; [25.4] [63.5]</td>
<td>1&quot; [25.4] [63.5]</td>
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<tr>
<td>G</td>
<td>8&quot; [203.2] [203.2]</td>
<td>8&quot; [203.2] [203.2]</td>
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</tbody>
</table>

HOT WATER COIL ACCESSORY
STEAM COIL ACCESSORY

ECONOMIZER ACCESSORY

ACCESS FOR MOTOR

RETURN AIR

C09209
CERTIFIED DIMENSION - ACCESSORIES FOR 40RUS28, 30

Coil

HOT WATER COIL ACCESSORY
STEAM COIL ACCESSORY

ECONOMIZER ACCESSORY

Access for return

1 1/2" [38.1] [101.6]

5" [127.0]

2 1/2" [63.5]

2" [50.8]

1 1/2" [38.1]

3 1/2" [88.9]