DX-KIT FOR AIR HANDLING APPLICATIONS

UTP-VU30A
UTP-VU60A
UTP-VU90A
UTY-VDGU

These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

DIFFERENT CONTROL STRATEGIES FOR OPTIMIZED CONTROL OF AIR HANDLING & FAN COIL UNITS

• When connecting to an air handling unit, the supply air temperature can be controlled by the air discharge sensor.

• When connecting to a fan coil unit, the room temperature can be controlled by the return air temperature sensor.

SUPPORTS WIDE RANGE OF CAPACITY CLASSES

• Connectable capacity range: 18,000 BTU/h to 168,000 BTU/h
• 2 EEV units can be connected in parallel for up to 168,000 BTU/h large capacity units. (Separation Tube Kit UTP-LX180A is required for 144,000 BTU/h / 168,000BTU/h.)

VARIETY OF CONTROLS TO MATCH THE APPLICATION

• Central control using VRF controllers or central management (BMS) controller
• Central control from external 3rd party controller

*DDC=Direct Digital Controller
SUMMARY OF FUNCTIONS

INPUTS

• ON/OFF
• Set temperature
• Capacity demand
• Heating / Cooling operation mode
• Fault information

OUTPUTS

• ON/OFF indication
• Fan ON/OFF indication
• Thermo ON/OFF indication
• Defrost indication
• Fault indication

MODBUS CONTROL

• Possible to control via Modbus interface for the integration into a BMS system.

INSTALLATION REQUIREMENTS

• Connectable VRF series: J-IIIL, J-IIS, J-II, V-II, VR-II
• Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
• Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
• Max wiring length from control unit: 32ft. (10m)
• Max piping length between EEV unit and indoor unit: 16ft. (5m)
• Outdoor installation: Control unit and EEV unit can be installed at an outdoor space.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>EEV Unit</th>
<th>UTP-VU30A</th>
<th>UTP-VU60A</th>
<th>UTP-VU90A</th>
<th>UTP-VU90A×2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connectable capacity class</td>
<td>BTU/h</td>
<td>18,000</td>
<td>24,000</td>
<td>30,000</td>
</tr>
<tr>
<td>Capacity</td>
<td>Cooling BTU/h</td>
<td>18,000</td>
<td>24,000</td>
<td>30,000</td>
</tr>
<tr>
<td>Airflow Rate (Reference value)</td>
<td>CFM (m³/h)</td>
<td>624 (1,060)</td>
<td>706 (1,200)</td>
<td>895 (1,520)</td>
</tr>
<tr>
<td>Dimensions (H×W×D) in.(mm)</td>
<td>6-5/16 x 8-11/16 x 3-9/16 (160 × 220 × 90)</td>
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</tr>
<tr>
<td>Weight</td>
<td>lbs.(kg)</td>
<td>4.4 (2.0)</td>
<td>4.4 (2.0)</td>
<td>4.4 (2.0)</td>
</tr>
<tr>
<td>Connection pipe diameter (Liquid) in.(mm)</td>
<td>Ø3/8 (9.52)</td>
<td>Ø3/8 (9.52)</td>
<td>Ø1/2 (12.70)</td>
<td></td>
</tr>
</tbody>
</table>

CONTROL UNIT

<table>
<thead>
<tr>
<th>UTY-VDGU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
</tr>
<tr>
<td>Dimensions (H×W×D) in.(mm)</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions:

Cooling: Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB, and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB.
Heating: Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB, and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.
Pipe length: 25ft.(7.5 m)
Voltage: 230 [V]

Actual product color may be different from the colors shown here. Specifications and design are subject to change without notice.

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