Variable Refrigerant Flow Systems

Heat Pump
J-IIL 208-230V / 3-Phase
J-IIS 208-230V / 1-Phase
J-II 208-230V / 1-Phase
V-II 208-230V, 460V / 3-Phase

Heat Recovery
VR-II 208-230V, 460 / 3-Phase
FUJITSU GENERAL’S VRF AIRSTAGE Series has been developed based on our long-term air conditioning technology know-how that was first introduced 18 years ago. Since then, the Airstage series has been serving the market’s HVAC needs in applications ranging from large residential to commercial in addition to a large variety of other installations.

Fujitsu General creates high-quality and environmentally-friendly products that provide a comfortable environment by using its continually improving air conditioning technology, innovation and creativity, which we started over 35 years ago.

High Quality Development and Production Environment
The Headquarters (JAPAN R&D) Center is equipped with a wide range of testing equipment envisioning a variety of operating conditions. We provide high quality & reliable products that meet the customers’ needs from all over the world through this advanced R&D center and 6 factories based in China and Thailand.

Fujitsu introduces inverter technology and the use of environmentally friendly R410A refrigerant.

Restriction of Hazardous Substances is an EU directive intended to protect the environment by forcing manufacturers to use environmentally friendly materials in all consumer electronics.

History of Environmental Measures
- 1998: Fujitsu General (Shanghai) Co., Ltd.
- 2002: FGA(Thailand) Co., Ltd.
- 2006: Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.
- 2013: Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.
- 2014: Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.
- 2015: Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.
- 2019: Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

ISO Certification
- ISO14001
- RoHS Compliance
- CE Marking
- UL Certification
- Energy Efficiency

V-II series
- High efficiency and compact design model
- 6 to 30 tons / Heat pump
- 2 to 24 tons / Heat recovery

V series
- High efficiency, small capacity model
- 3, 4 and 5 tons / Heat pump

S series
- High efficiency, medium capacity model
- 6, 8, 10 tons / Heat pump

J-series
- High efficiency, small capacity model
- 3, 4, 5 tons / Heat pump

North America
A World Leader in Heating and Cooling Solutions

Support Team
Fujitsu features an expert team of Regional Sales Managers and Sales Engineers located around North America to provide customer support. Additionally, blended BIP Agencies support Plan and Spec. Consulting Engineers, as well as wholesale distribution, to provide product knowledge and support. We pride ourselves in having one of the most educated and qualified teams in the HVAC industry.

Technical Support
The Fujitsu support experience is top-notch and our highly trained technicians are equipped with the tools and resources to answer any question that may come your way. Fujitsu offers remote technical support, and when needed, can dispatch local support to solve field issues. Our Tech support wait time is the lowest in the industry with the highest level of expertise and limited return calls.

Wireless phone headsets provide mobility to techs so they can physically access any tools they may need to solve the problem.

Installed equipment allows techs to simulate situations contractors have in the field, making calls go faster and smoother.

Quality Control is pertinent to customer satisfaction. Every piece of equipment that is sent back to Fujitsu is tested and evaluated, bringing our failure rate to a record low .01%.

Research & Development
The Headquarters R&D Center (Japan) is equipped with a wide range of testing equipment envisioning a variety of operating conditions. This includes a testing tower with a 197ft. (60m) height difference for buildings. We provide high quality & reliable products that meet the customers' needs from all over the world.

HGXFDWHGDQGTXDOLÀHGWHDPVLQWKH+9$&
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High Efficiency & Reliability

Variable Refrigerant Flow System
For Small and Large Buildings

- Extensive lineup from 3 to 24 tons
- Connectable capacity ratio up to 150%
- 62 different indoor units available in 12 styles
- Up to 63 indoor units per one VRF system
- Three outdoor V-Series units may be combined with twinning kits to create up to 24 tons
- 10-Year Parts and Compressor Warranty
- See Warranty Statement for details
- Connect up to 36 tons of indoor units to a single VRF refrigerant circuit
- Extensive training for Engineers, Architects, Contractors and Distributors

Fujitsu Limited

R&D Center in JAPAN

Certifications Acquisition of
ISO 9001 and ISO14001
in each factory

R&D Center in JAPAN

Fujitsu General Limited

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- Extensive training for Engineers, Architects, Contractors and Distributors
HIGH ENERGY EFFICIENCY

All inverter compressor

Airstage outdoor units are equipped with DC Inverter Control of compressors. Inverter control is like having cruise control for your heating and cooling system. DC twin rotary compressors only run as fast as they need to handle the cooling or heating demand. This provides smoother and more stable operation while improving comfort and reducing energy consumption.

Inverter Benefits
• Soft start resulting in low inrush current
• High efficiency operation
• Lower RPM – quieter operation
• Built-in protections improve compressor life

Large capacity high efficiency DC twin rotary compressor with excellent part load performance.

High efficiency compressor speed control

Provides comfort by making small temperature changes. This reduces energy usage by controlling the compressor speed in 1000 increments.

High efficiency DC inverter compressor

Large capacity high efficiency DC twin rotary compressor with

Single Twin Rotary Compressor

Some manufacturers use scroll compressors, or multiple compressors consisting of one variable and one fixed. Using this older technology makes the outdoor unit heavier and more expensive.

Fujitsu uses twin rotary technology which is more efficient with up to 7% improved COP over older scroll compressors.

DESIGN VERSATILITY

Long piping length

Broad range of installation by long piping capability.

Overall piping length 3,280 ft.

World’s longest total pipe length 3,280 ft. max.

High static pressure

Outdoor unit static pressure is adjustable up to 0.32 in. WG. This facilitates mechanical room and hood installations.

Wide operating range

Installation in wide temperature conditions is possible due to an increase in operational range.

High static pressure is achieved using large diameter fan and a DC motor.
EASY INSTALLATION

- Easily transported
  Easily caned into position using lifting belt hooks
  Design of outdoor unit allows for lifting shaps to be used
  Slots in base of the unit allow for easy transportation by forklift.

- Simple signal line connection
  Communication wiring can be connected continuously to any component, making installation easier.

- Automatic address setting
  The address of each indoor unit can be automatically set by the touch of a button on the outdoor unit.

- High capacity connection
  Various combinations from 6 Tons to 24 Tons with 62 indoor unit models, 12 types, can be selected. A minimum of 50% to a maximum of 150% capacity range.

- Easy access
  By adopting a removable L-Shape front panel, working space is greatly enlarged improving installation and servicing of the outdoor units.

HIGH RELIABILITY

- Refrigerant circulation control
  Innovative compressor control logic balances refrigerant flow rate of each outdoor unit by controlling inverter speed.

- Easy access
  By adopting a removable L-Shape front panel, working space is greatly enlarged improving installation and servicing of the outdoor units.

- Life-extending operation
  Lead outdoor unit rotation
  The rotation of the lead outdoor unit provides equal runtime for all units, extending equipment life.

- Oil return design
  Individual oil separator and intelligent oil feedback operation logic are adopted. Oil return pipe of oil separator is connected directly to the compressor suction line through capillary and through solenoid valve.

- Liquid back-flow protection
  By adopting a large sized accumulator, the refrigerant, which is not completely vaporized, is left inside the accumulator and only a stable supply of gas is fed from the accumulator.

- Blue fin heat exchanger
  Blue fin treatment to the outdoor unit’s heat exchanger improves corrosion resistance.
COMFORT AND CONVENIENCE

Centralized Control

Fujitsu Airstage offers a variety of individual remotes and centralized controllers. Each provides users with a set of features to meet different needs.

Quiet operation

Low noise mode: Two low noise modes can be selected automatically using quiet priority setting or capacity priority setting, depending on the usage environment and outside temperature load.

Remote monitoring

Web Monitoring option brings remote Internet access to view system operation ensuring trouble free operation.

EASY SERVICE & MAINTENANCE

Designed for easy service and maintenance

Inspection and replacement of main parts is simple due to innovative construction and an LED operational display.

Remote monitoring

Web Monitoring option brings remote Internet access to view system operation ensuring trouble free operation.

Error status can be checked easily via the indoor unit wired remote control

An error code is displayed on an LED screen.

Troubleshooting using the Service Tool

Simplified troubleshooting and commissioning using Service Tool Software.

Flexible piping connection

Piping and wiring are available through the front, left, right and bottom.

Fujitsu Mobile Technician App

This free app is a handy, troubleshooting tool for heat pump and heat recovery systems. The app helps contractors troubleshoot error codes, thermistors and pressure sensors. It also includes a built-in flashlight. Fujitsu Mobile Technician is available as a troubleshooting system performance aid 24/7/365 and requires no phone call or waiting on hold.

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### OUTDOOR UNITS LINEUP

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor Body Style</th>
<th>Capacity</th>
<th>Type</th>
<th>Compressor</th>
<th>Voltage</th>
<th>Class</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOU12TLRBV1</td>
<td>Outdoor Unit</td>
<td>12,000 BTUh</td>
<td>Single Phase</td>
<td>AOUA120RLBV1</td>
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<td>144,000 BTUh (12 Tons)</td>
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<td>AOU18TLRBV1</td>
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<td>Single Phase</td>
<td>AOUA360RLBV1</td>
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<tr>
<td>AOU48TLRBV1</td>
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<td>Single Phase</td>
<td>AOUA480RLBV1</td>
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<tr>
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</tbody>
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### OUTDOOR UNIT NOMENCLATURE

- **AOU**: Outdoor Unit
- **AGU**: Compact Air Conditioner
- **AOU**: Indoor Unit
- **ABU**: Compact Air Conditioner
- **AOU**: Outdoor Unit
- **AAU**: Outdoor Unit

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### V-VI Heat Pump

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<th>Capacity</th>
<th>Model</th>
</tr>
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<tbody>
<tr>
<td>Medium Static Pressure Duct</td>
<td>36,000 BTUh</td>
<td>AOUA96RLBV1</td>
</tr>
<tr>
<td>Large Static Pressure Duct</td>
<td>24,000 BTUh</td>
<td>AOUA72RLBV1</td>
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</tbody>
</table>

### Inverter Driven

- **30,000 BTUh**
- **48,000 BTUh**
- **120,000 BTUh**
- **144,000 BTUh**
- **288,000 BTUh**

### Compressor

- **AOUA120RLBV1**
- **AOUA180RLBV1**
- **AOUA240RLBV1**
- **AOUA360RLBV1**
- **AOUA480RLBV1**
- **AOUA600RLBV1**

### Voltage

- **208/230V-1**
- **208/230V-3**

### Class

- **A**
- **C**
- **S**
- **L**

### Grouping

- **Group**
- ** mediums**
The J-Series provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses. Connectable indoor unit capacity up to 130%. A large number of J-Systems can be connected to a single VRF communication network offering a variety of central and remote communication and BMS options.

Applications

Small Commercial
Space-saving design and long piping design allowed for flexible installation on the roof or basements of small and medium-size buildings.

Large Residential
Multiple indoor units of various capacities and types can be connected.

J-II SYSTEM CONFIGURATION EXAMPLE

- The J-II system offers a long pipe length of 590 ft. total.
- Connection of multiple indoor units using separation tubes and headers.

ADVANCED HIGH EFFICIENCY TECHNOLOGY

J-IIS

- LARGE HEAT EXCHANGER
  Heat exchange performance is substantially improved by adding a 3rd row to the heat exchanger.
- DC INVERTER CONTROL
  Efficiency is improved by mounting of new active filter module.
- HIGH EFFICIENCY DC FAN MOTOR
  Using low noise dual DC fan motors offers better control and efficiency.
- LARGE PROPELLER FAN
  High performance and low noise realized by large propeller and optimization of angle.
- HIGH EFFICIENCY DC TWIN ROTARY COMPRESSOR
  DC twin rotary compressor provides great performance under all load conditions. Its performance is optimized for part-load operation.

SMOOTH AIRFLOW GRILLE

This grille was aerodynamically designed for good efficiency with little blow loss.

ENERGY EFFICIENCY

J-Series Systems provide the highest efficiency for any single-phase VRF. Figures shown based on non-ducted models.

J-IIS OFFERS SPACE SAVING DESIGN

The compact size with a height of less than 3.3 ft. (1m) allows it to be installed under windows and in tight spaces.

SMOOTH AIRFLOW

This grille was aerodynamically designed for good efficiency with little blow loss.

OPTIMUM COMFORT

Individual control of each room’s climate provides better control and reduces energy consumption.

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Individual control of each room’s climate provides better control and reduces energy consumption.

ENERGY EFFICIENCY

J-Series Systems provide the highest efficiency for any single-phase VRF. Figures shown based on non-ducted models.

SMOOTH AIRFLOW

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**Low Noise Mode**

Outdoor unit can be switched to silent mode, depending on the installation environment.

**Connection Check Function**

- Displays connected indoor unit addresses
- Displays connected indoor unit addresses
- Displays connected indoor unit addresses

**Specifications**

<table>
<thead>
<tr>
<th>J-IIS</th>
<th>J-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>AOU36RLAVS / AOU48RLAVS / AOU36RLAVM / AOU48RLAVM / AOU60RLAVM</td>
</tr>
<tr>
<td>Indoor unit connectable capacity ratio</td>
<td>50% to 130%</td>
</tr>
<tr>
<td>Minimum connectable indoor unit</td>
<td>1-6</td>
</tr>
</tbody>
</table>

**Power source**

- Non-Ducted / Ducted
  - 1-Phase, 208 / 230V, 60Hz

**Cooling Capacity**

<table>
<thead>
<tr>
<th>Non-Ducted / Ducted</th>
<th>Capacity (Btu/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Ton</td>
<td>36,000</td>
</tr>
<tr>
<td>3 Ton</td>
<td>42,000</td>
</tr>
<tr>
<td>4 Ton</td>
<td>48,000</td>
</tr>
</tbody>
</table>

**Heating Capacity**

<table>
<thead>
<tr>
<th>Non-Ducted / Ducted</th>
<th>Capacity (Btu/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Ton</td>
<td>36,000</td>
</tr>
<tr>
<td>3 Ton</td>
<td>42,000</td>
</tr>
<tr>
<td>4 Ton</td>
<td>48,000</td>
</tr>
</tbody>
</table>

**Sound pressure level**

<table>
<thead>
<tr>
<th>Capacity (Btu/h)</th>
<th>Cooling/Heating dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>36,000</td>
<td>52 / 54</td>
</tr>
<tr>
<td>42,000</td>
<td>53 / 55</td>
</tr>
</tbody>
</table>

**CFM (m³/h)**

- Cooling: 2,378 (4,040)
- Heating: 3,649 (6,200)

**Weight (lbs. / kg)**

- 1 Ton: 194 (88)
- 3 Ton: 262 (119)
- 4 Ton: 269 (122)

**Dimensions**

<table>
<thead>
<tr>
<th>Non-Ducted / Ducted</th>
<th>Dimensions (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Ton</td>
<td>38-3/16 (970)</td>
</tr>
<tr>
<td>3 Ton</td>
<td>52-1/2 (1320)</td>
</tr>
</tbody>
</table>

**Current model / 3 ton class**

- Height: 52-1/2 in.
- Weight: 260 lbs.

**Model / 3, 4, 5 tons**

- Current model / 3 ton class
  - Height: 52-1/2 in.
  - Weight: 260 lbs.

**VRF Communication Cable**

- Required. It is shown on pg. 79.

**Refrigerant Concentration**

- Limit reduction (ASHRAE 15)

**Easyly Retrives Existing Ducts**

- Combines all small spaces on smaller refrigerant circuits.

**Non-stop Oil Recovery Operation**

- Combines all small spaces on smaller refrigerant circuits.

**Connect to DOAS**

- Use with DOAS to improve larger VRF system operation and increase overall building efficiency.

**Low noise mode**

- Outdoor unit can be switched to silent mode, depending on the installation environment.

**Connection Check Function**

- Displays connected indoor unit addresses
- Displays connected indoor unit addresses
- Displays connected indoor unit addresses

**Current connection**

- Displays connected indoor unit addresses
- Displays connected indoor unit addresses
- Displays connected indoor unit addresses

**Model / 3, 4, 5 tons**

- Current model / 3 ton class
  - Height: 52-1/2 in.
  - Weight: 260 lbs.

**Model / 3, 4, 5 tons**

- Current model / 3 ton class
  - Height: 52-1/2 in.
  - Weight: 260 lbs.

**Dimensions**

<table>
<thead>
<tr>
<th>J-I series (Heating operation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 4, 5 tons: AOU36RLAVS / AOU48RLAVS / AOU60RLAVM</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>AOU48RLAVM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top view</td>
</tr>
<tr>
<td>Side view</td>
</tr>
<tr>
<td>Front view</td>
</tr>
<tr>
<td>Rear view</td>
</tr>
</tbody>
</table>

**Non-stop oil recovery operation**

- Combines all small spaces on smaller refrigerant circuits.

**Easyly Retrives Existing Ducts**

- Combines all small spaces on smaller refrigerant circuits.

**Refrigerant Concentration**

- Limit reduction (ASHRAE 15)

**Low noise mode**

- Outdoor unit can be switched to silent mode, depending on the installation environment.

**Connection Check Function**

- Displays connected indoor unit addresses
- Displays connected indoor unit addresses
- Displays connected indoor unit addresses

**Current connection**

- Displays connected indoor unit addresses
- Displays connected indoor unit addresses
- Displays connected indoor unit addresses
Fujitsu General America provides perfect total air conditioning systems that take into account energy saving, ORZQRLVHFRPIRUWDEOHDLUÁRZVPDOOURRPDSSOLFDWLRQDQG FHQWUDOL\]HGFRQWUROIRUVPDOOVL\]HGRIÀFHEXLOGLQJVZLWK many small rooms.

**Flexible Installation**

**Interior Installation**
Quiet operation does not disturb residents. This model features the fan on the front, which is about 39.4 in. (1000mm) wide, allowing flexible installation in narrow spaces.

**Installation in Alleys**
The compact and narrow chassis allows the unit to be installed directly on the ground or mounted on a wall.

**Curbside Installation**
The front side fan combined with the slim, compact design enable multiple systems to be installed without blocking windows.

**PERFECT FOR SMALL SPACES**
Up to 30 units can be connected. Small but powerful indoor units combined with the new J-III-L outdoor unit reach an industry leading maximum of up to 30 indoor units.

**HIGH STATIC PRESSURE**
External static pressure is available up to 0.24in. W.G (60Pa).

**TOTAL PIPING LENGTH**
Max. 164ft. (50m) for the outdoor unit installed below the reference unit (15% above max. height difference between indoor and indoor units).

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Nominal system capacity</th>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor unit connectable capacity ratio</td>
<td>ADU72RLAVL</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Maximum connectable indoor unit</td>
<td>1-18 units</td>
<td>1-24 units</td>
<td>1-30 units</td>
<td></td>
</tr>
<tr>
<td>Power source</td>
<td>Ø/V/Hz</td>
<td>208/230V, 3-Phase, 60Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity (Non-Ducted/Ducted)</td>
<td>BTU/h</td>
<td>72,000</td>
<td>96,000</td>
<td>120,000</td>
</tr>
<tr>
<td>Capacity (Non-Ducted/Ducted)</td>
<td>Btu/h/W</td>
<td>12.1/11.9</td>
<td>11.6/11.6</td>
<td>11.6/11.6</td>
</tr>
<tr>
<td>Capacity (Non-Ducted/Ducted)</td>
<td>COP (W/W)</td>
<td>4.19/4.01</td>
<td>3.87/3.66</td>
<td>3.77/3.64</td>
</tr>
<tr>
<td>Capacity (Non-Ducted/Ducted)</td>
<td>CFM (m³/h)</td>
<td>5,298 (9,000)</td>
<td>6,475 (11,000)</td>
<td>7,653 (13,000)</td>
</tr>
<tr>
<td>Capacity (Non-Ducted/Ducted)</td>
<td>dB(A) Cooling/Heating</td>
<td>54/55</td>
<td>59/60</td>
<td>62/63</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Height (in. (mm))</td>
<td>64-1/2 (1,638)</td>
<td>7-11/16 (196)</td>
<td>7-11/16 (196)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Width</td>
<td>42-1/2 (1,080)</td>
<td>20-5/16 (515.5)</td>
<td>1-5/8 (40.5)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Depth</td>
<td>18-7/8 (480)</td>
<td>64-1/2 (1,638)</td>
<td>7-11/16 (196)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Weight lbs. (kg)</td>
<td>470 (213)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Connection pipe diameter (Liquid) (in. (mm))</td>
<td>3/8 (9.52)</td>
<td>3/8 (9.52)</td>
<td>1/2 (12.70)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Connection pipe diameter (Gas) (in. (mm))</td>
<td>3/4 (19.05)</td>
<td>7/8 (22.20)</td>
<td>1-1/8 (28.58)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Max. Total pipe length (ft. (m))</td>
<td>1312 (400)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Max. height difference (Outdoor Unit: Upper/Lower) (ft. (m))</td>
<td>164/131 (50/40)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Operation range (Cooling) °F(°C)</td>
<td>5°F (-15°C) to 115°F (46°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Operation range (Heating) °F(°C)</td>
<td>5°F (-15°C) to 115°F (46°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Refrigerant type</td>
<td>R410A</td>
<td></td>
<td></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. (7.5m), Height difference: 0ft. (0m) (Outdoor unit - indoor unit).

- When the outdoor unit is lower than the indoor unit, the temperature range is 23°F (-5°C).
- The cooling operation range of 5 to 115°F (-15 to 46°C) is allowed only when all of the indoor units connected to the system are higher than capacity of 18000 BTUh (5.6 kW).
- Height difference between 0th (0th) and 1st floor (1st) units are combined.

**INSTALLATION FLEXIBILITY**

**Long Piping Length**
Advanced refrigerant technology allows systems to reach a total refrigerant piping length of 1,312 ft (400m). This opens up new possibilities in system design.

**INDOOR UNIT AND CONTROLLER CONNECTIVITY**

- J-III-L outdoor units can connect to:
  - 13 types of indoor units - 58 different models (Capacity ranges from 4,000 to 96,000 BTU/h)
  - Wi-Fi enabled controllers

**HIGH STATIC PRESSURE**
External static pressure is available up to 0.24in. W.G (60Pa).
HEAT PUMP

AIRSTAGE V-II series

Smart and cutting edge design. Extensive lineup from 6 to 24-Tons in 2-Ton increments. Connectable indoor unit capacity up to 150%.
A large number of Airstage systems can be connected to a single VRF communication network offering a variety of central and remote communication and EMS options.

System Outline

Excellent energy savings
Heat pump inverter control improves system operation efficiency in part-load conditions when one or many indoor units are in operation.

Lower life-cycle cost
System operates with minimum energy usage. Only service the zones that need it, which allows for less required operating energy and maintenance.

Easy installation and maintenance
The flexible communication method and piping connections make installation and maintenance easy even for large systems.

SPECIFICATIONS

HEAT PUMP

ENERGY SAVING TECHNOLOGY THAT BOOSTS OPERATION EFFICIENCY

Powerful large propeller fan
By using CFD* technology, a newly designed fan achieves high performance and low noise operation.
* CFD - Computational Fluid Dynamics

3 phase DC fan motor
Efficiency is substantially improved by high efficiency motor with sophisticated driver control. In addition, low noise is realized by DC fans motors.

Subcool heat exchanger
High heat exchange efficiency is achieved by using an internal projection shape double pipe construction.

Sine-wave DC inverter control
High efficiency is realized by adoption of reduced switching loss IPM.

High efficient compressor
Large capacity DC inverter compressor Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.

4-face heat exchanger
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

MULTIPLE OUTDOOR OPERATION CONTROL

When multiple outdoor units are connected a sophisticated operation is performed by each compressor. Rather than running one compressor at full load and distributing refrigerant to one heat exchanger, this control method operates all compressors at part load and distributes refrigerant to all of the heat exchangers which allows for the overall system efficiency to be improved.

HEAT EXCHANGER REFRIGERANT CONTROL

The heat exchanger in the outdoor unit is split into two parts (Top and Bottom). The efficiency of the heat exchanger has been improved by adopting an optimum refrigerant path control where the refrigerant is distributed more into the top heat exchanger as this is where there is a greater air flow intake.
### SPECIFICATIONS

**Model Name**: AOUA72RLBV1 / AOUA96RLBV1

**Units**: 6, 8tons

**Net Weight**: 564 [256] + 611 [277]

**Pipe Connection: Liquid in [mm]**
- 1/2 [12.70]
- 5/8 [15.88]
- 3/4 [19.05]

**Pipe Connection: Discharge Gas in [mm]**
- 7/8 [22.22]
- 5/8 [15.88]

**Compressor Type x Quantity**
- x1 Rotary Inverter
- x3 Rotary Inverter

**Compressor Crankcase Heater W**
- 2×35
- 2×35
- 3×35

**Sound Pressure Levels (Cooling/Heating) dB (A)**
- 57/58
- 59/59

**Fan Airflow Rate CFM [m 3/h]**
- 6533 [11,100]
- 6533 [11,100]

**Heating Power Input (Nominal) kW**
- 5.39

**Operating Temp. Cooling (DB) °F [°C]**
- 5 to 115 [-15 to 46]

**Nominal Heating Capacity BTUh [kW]**
- 81,000 [23.7]
- 108,000 [31.7]

**Nominal Cooling Capacity BTUh [kW]**
- 72,000 [21.1]
- 96,000 [28.1]

**Electrical Power Requirements**
- 208 / 230 VAC, 3-Phase, 60Hz

**Cooling Power Input (Nominal) kW**
- 5.37

**Refrigerant Type**
- R410A

**Transmission cable port**
- Ø7/8 (22.2)
- Ø1-3/8 (34.5)

**Required. It is shown on pg. 79**

### DIMENSIONS

**Units**: 6, 8tons: AOUA120RLBV1 / AOUA168RLBVG1

**Model Name**: AOUA120RLCV / AOUA168RLCV

**Net Weight**: 52-23/32 (1339)

**Dimensions / Weight**
- 66-9/16 × 48-13/16 × 30-1/8

**Ref: 184**

**VRF Communication Cable is required. It is shown on pg. 79**
HEAT RECOVERY

AIRSTAGE VR-II series

For 208/230V
For 480V

3 Phase

Smart, cutting edge design
Extensive lineup from 6 to 24 tons in 2Ton increments
Connectable indoor unit capacity up to 150%
A large number of Airstage systems can be connected to a single VRF communication network offering a variety of central and remote communication and BMS options.

Benefits

Simultaneous cooling and heating operation using 1 refrigerant system
Cooling and heating can be freely selected for each indoor unit to provide simultaneous cooling and heating in areas with large temperature differences.

Lower life-cycle cost
System operates with minimum energy usage. Only service the zones that need it, which allows for less required operating energy and maintenance.

Handles changes in temperature differences
The operation mode can be freely changed when there are large temperature differences during the day.

FLEXIBLE PIPING CONNECTION

A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.

FLEXIBLE INSTALLATION OF REFRIGERANT BRANCH (RB) UNIT

See specifications of RB units on pg 78.

- 2-way connection
- Reducing overall piping length
- Up to 2 units can be connected in series.

Easy to maintain in a narrow space.
- Maintenance can be performed from the side.
- No top-access service needed.
- Electronics enclosure can be temporarily slid down for service access.
- Parts can be replaced easily even in a narrow ceiling space.

Large Building

Our heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.

Energy savings have been improved as heating and cooling systems can be operated at the same time on the same air conditioning piping system.

Height 7-13/16 in. (198mm)
## VR-II Specifications for 20B / 230 / 466V

### Model Name

<table>
<thead>
<tr>
<th>AOUA72TLBV</th>
<th>AOUA72TLCV</th>
<th>AOUA96TLBV</th>
<th>AOUA96TLCV</th>
<th>AOUA120TLBV</th>
<th>AOUA120TLCV</th>
<th>AOUA168TLBVG</th>
<th>AOUA240TLCVG</th>
<th>AOUA264TLBVG</th>
<th>AOUA264TLCVG</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOUA72TLBV</td>
<td>AOUA72TLCV</td>
<td>AOUA96TLBV</td>
<td>AOUA96TLCV</td>
<td>AOUA120TLBV</td>
<td>AOUA120TLCV</td>
<td>AOUA168TLBVG</td>
<td>AOUA240TLCVG</td>
<td>AOUA264TLBVG</td>
<td>AOUA264TLCVG</td>
</tr>
</tbody>
</table>

### Nominal Tonnage (Ton(s))

<table>
<thead>
<tr>
<th>AOUA72TLBV</th>
<th>AOUA72TLCV</th>
<th>AOUA96TLBV</th>
<th>AOUA96TLCV</th>
<th>AOUA120TLBV</th>
<th>AOUA120TLCV</th>
<th>AOUA168TLBVG</th>
<th>AOUA240TLCVG</th>
<th>AOUA264TLBVG</th>
<th>AOUA264TLCVG</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
</tbody>
</table>

### Heating Power Input (Nominal) (kW)

<table>
<thead>
<tr>
<th>AOUA72TLBV</th>
<th>AOUA72TLCV</th>
<th>AOUA96TLBV</th>
<th>AOUA96TLCV</th>
<th>AOUA120TLBV</th>
<th>AOUA120TLCV</th>
<th>AOUA168TLBVG</th>
<th>AOUA240TLCVG</th>
<th>AOUA264TLBVG</th>
<th>AOUA264TLCVG</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.35</td>
<td>7.82</td>
<td>10.11</td>
<td>12.73</td>
<td>13.93</td>
<td>14.79</td>
<td>18.91</td>
<td>21.70</td>
<td>23.20</td>
<td>26.07</td>
</tr>
</tbody>
</table>

### Nominal Heating Capacity (BTUh) (kW)

<table>
<thead>
<tr>
<th>AOUA72TLBV</th>
<th>AOUA72TLCV</th>
<th>AOUA96TLBV</th>
<th>AOUA96TLCV</th>
<th>AOUA120TLBV</th>
<th>AOUA120TLCV</th>
<th>AOUA168TLBVG</th>
<th>AOUA240TLCVG</th>
<th>AOUA264TLBVG</th>
<th>AOUA264TLCVG</th>
</tr>
</thead>
<tbody>
<tr>
<td>81,000</td>
<td>108,000</td>
<td>135,000</td>
<td>162,000</td>
<td>188,000</td>
<td>216,000</td>
<td>243,000</td>
<td>270,000</td>
<td>297,000</td>
<td>324,000</td>
</tr>
</tbody>
</table>

### Operating Temp. Heating (DB) °F / °C

<table>
<thead>
<tr>
<th>AOUA72TLBV</th>
<th>AOUA72TLCV</th>
<th>AOUA96TLBV</th>
<th>AOUA96TLCV</th>
<th>AOUA120TLBV</th>
<th>AOUA120TLCV</th>
<th>AOUA168TLBVG</th>
<th>AOUA240TLCVG</th>
<th>AOUA264TLBVG</th>
<th>AOUA264TLCVG</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4 to 70</td>
<td>-4 to 70</td>
<td>-4 to 70</td>
<td>-4 to 70</td>
<td>-4 to 70</td>
<td>-4 to 70</td>
<td>-4 to 70</td>
<td>-4 to 70</td>
<td>-4 to 70</td>
<td>-4 to 70</td>
</tr>
</tbody>
</table>

### Operating Temp. Cooling (DB) °F / °C

<table>
<thead>
<tr>
<th>AOUA72TLBV</th>
<th>AOUA72TLCV</th>
<th>AOUA96TLBV</th>
<th>AOUA96TLCV</th>
<th>AOUA120TLBV</th>
<th>AOUA120TLCV</th>
<th>AOUA168TLBVG</th>
<th>AOUA240TLCVG</th>
<th>AOUA264TLBVG</th>
<th>AOUA264TLCVG</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 to 115</td>
<td>14 to 115</td>
<td>14 to 115</td>
<td>14 to 115</td>
<td>14 to 115</td>
<td>14 to 115</td>
<td>14 to 115</td>
<td>14 to 115</td>
<td>14 to 115</td>
<td>14 to 115</td>
</tr>
</tbody>
</table>

### Transmission cable port

- Ø2 (50)
- Ø7/8 (22.2)

### Electrical data

- AOUA72TLBV: 1×(AOUA72TLBV) + 1×(AOUA96TLBV)
- AOUA72TLCV: 1×(AOUA72TLCV)
- AOUA96TLBV: 1×(AOUA96TLBV) + 1×(AOUA120TLBV)
- AOUA96TLCV: 1×(AOUA96TLCV)
- AOUA120TLBV: 2×(AOUA120TLBV)
- AOUA120TLCV: 2×(AOUA120TLCV)
- AOUA168TLBVG: 1×(AOUA168TLBVG)
- AOUA240TLCVG: 1×(AOUA240TLCVG)
- AOUA264TLBVG: 3×(AOUA264TLBVG)
- AOUA264TLCVG: 3×(AOUA264TLCVG)

### Note

- Specifications are based on the following conditions:
  - Cooling: Outdoor temperature of 80°F (26.7°C) DB / 70°F (21.1°C) WB, and indoor temperature of 70°F (21.1°C) DB / 68°F (20°C) WB.
  - Heating: Outdoor temperature of 5°F (−15°C) DB / 39°F (4°C) WB, and indoor temperature of 80°F (26.7°C) DB / 70°F (21.1°C) WB.

### Electrical data

- 35.0°C DB / 75°F (23.9°C) WB.

### Specifications

- 6 B-type: AOUA22BLBV / AOUA96BLBV
- AOUA22BLBV / AOUA96BLBV

### Dimensions

- 10 B-type: AOUA20BLBV / AOUA264BLBV
- AOUA20BLBV / AOUA264BLBV

---

**Note:** Specifications are based on the following conditions.

- Cooling: Outdoor temperature of 80°F (26.7°C) DB / 70°F (21.1°C) WB, and indoor temperature of 70°F (21.1°C) DB / 68°F (20°C) WB.
- Heating: Outdoor temperature of 5°F (−15°C) DB / 39°F (4°C) WB, and indoor temperature of 80°F (26.7°C) DB / 70°F (21.1°C) WB.
- **(copyright) Ed.**
- **(copyright) Ed.**
**Compact Cassette**

**AUUA4TLAV**
**AUUA7TLAV**
**AUUA8TLAV**
**AUUA9TLAV**
**AUUA12TLAV**

Compact size panel design that fits in a standard 24" square ceiling panel (600 x 600mm)

**2-Stage Turbo Fan**
High efficiency design by 2 stage structure
Evenly spread air distribution across the heat exchanger is possible due to the 2 stage turbo fan which produces two separate airflow streams.

**Quiet**
Optimization of wing form (laminar wing type) and wing number (7 blades each)
Designed by Computational Fluid Dynamics (CFD) simulations
Adaptation of laminar wing

**Heat Exchange**
Adoption of laminar wing
Airflow runs through smoothly along the laminar wing
No airflow separation

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUUA4TLAV</th>
<th>AUUA7TLAV</th>
<th>AUUA8TLAV</th>
<th>AUUA9TLAV</th>
<th>AUUA12TLAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>AUUA4TLAV</td>
<td>AUUA7TLAV</td>
<td>AUUA8TLAV</td>
<td>AUUA9TLAV</td>
<td>AUUA12TLAV</td>
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<tr>
<td>Power source</td>
<td>Cooling</td>
<td>Heating</td>
<td>Cooling</td>
<td>Heating</td>
<td>Cooling</td>
</tr>
<tr>
<td>Capacity (Capacity)</td>
<td>kVA</td>
<td>kW</td>
<td>A</td>
<td>kW</td>
<td>A</td>
</tr>
<tr>
<td>Liquid pipe</td>
<td>Gas pipe</td>
<td>Liquid pipe</td>
<td>Gas pipe</td>
<td>Liquid pipe</td>
<td>Gas pipe</td>
</tr>
<tr>
<td>Diameter (I.D./O.U.)</td>
<td>3/8 (9.52)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
</tr>
<tr>
<td>Diameter (I.D./O.U.)</td>
<td>3/8 (9.52)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
</tr>
<tr>
<td>Diameter (I.D./O.U.)</td>
<td>3/8 (9.52)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
</tr>
</tbody>
</table>

**Dimensions**

**High Lift Drain Pump**
Built-in high lift drain pump

**High Ceiling Mode**
AUUA12/14/18/24/36LA models only - The compact cassette can be installed up to a height of 9’10-5/16” R. (3.0m)

**Option Parts**
- Wired Remote Control (Touch Panel) ................................................................................................................................................................................................................................................. UTY-RNU2
- Wireless Remote Control ......................................................................................................................................................................................................................................................... UTY-LNMU2
- Wi-Fi Interface Module ......................................................................................................................................................................................................................................................... FJ-RC-WIFI-INA
- Fresh Air Intake Kit ......................................................................................................................................................................................................................................................... UTY-VXAA
- Insulation Kit for High Humidity ........................................................................................................................................................................................................ UTY-RK64
- Simple Remote Control ......................................................................................................................................................................................................................................................... UTY-RSRY, UTY-RHRV
- Air Outlet Shutter Plate ......................................................................................................................................................................................................................................................... UTR-YDZB
- Wired Remote Control ......................................................................................................................................................................................................................................................... UTY-RNKU
- Wireless Remote Control......................................................................................................................................................................................................................................................... UTY-LN6B
- Remote Control......................................................................................................................................................................................................................................................... UTY-RNBU2
- Optional Parts

**Adoption of laminar wing**

- Designed by Computational Fluid Dynamics (CFD) simulations
- Quiet
- No airflow separation

**World's first 24,000 BTUh model in the compact cassette category**
Easy installation by taking off 24" square ceiling panel (600 x 600mm)
Large 4-Way Cassette

Powerful, wide airflow and quiet operation. Ability to use a branch duct off of the unit.

Cassette Grille UTG-LCGV sold separately. Must order one with each compact cassette.

HIGH EFFICIENCY TURBO FAN WITH 3-DIMENSIONAL BLADE

High efficiency airflow distribution has been achieved by improving the fan-blade design which increases the air passing over the heat exchanger.

SPECIFICATIONS

**MODEL NAME**
AUUB18TLAV
AUUB24TLAV
AUUB30TLAV
AUUB36TLAV

<table>
<thead>
<tr>
<th>Dimensions (H × W × D) in. (mm)</th>
<th>9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840)</th>
<th>11-5/16 × 33-1/16 × 33-1/16 (288 × 840 × 840)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight lbs. (kg)</td>
<td>49 (22)</td>
<td>60 (27)</td>
</tr>
<tr>
<td>Connection</td>
<td>Liquid (Flare)</td>
<td>Liquid (Flare)</td>
</tr>
<tr>
<td></td>
<td>ø 5/8 (15.88)</td>
<td>ø 3/8 (9.52)</td>
</tr>
<tr>
<td></td>
<td>Gas (Flare)</td>
<td>Gas (Flare)</td>
</tr>
<tr>
<td></td>
<td>ø 5/8 (15.88)</td>
<td>ø 3/8 (9.52)</td>
</tr>
<tr>
<td></td>
<td>ø 3/4 (I.D. / O.D.)</td>
<td>ø 3/8 (9.52)</td>
</tr>
<tr>
<td>Input power W</td>
<td>39</td>
<td>46</td>
</tr>
<tr>
<td>Heating BTUh</td>
<td>20,000</td>
<td>27,000</td>
</tr>
<tr>
<td>Cooling BTUh</td>
<td>18,000</td>
<td>24,000</td>
</tr>
<tr>
<td>Drain hose diameter (I.D. / O.D.)</td>
<td>3/4  /  1-1/16</td>
<td>3/8  /  1-9/16</td>
</tr>
<tr>
<td>Heating capacity</td>
<td>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)).</td>
<td></td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>Indoor temperature of 80°F (26.7°C DB / 67°F (19.4°C WB), and outdoor temperature of 95.0°F (35°C DB / 75°F (23.9°C WB)).</td>
<td></td>
</tr>
<tr>
<td>Liquid inlet pipe diameter</td>
<td>3/4 (19.05)</td>
<td>3/8 (9.52)</td>
</tr>
<tr>
<td>Gas inlet pipe diameter</td>
<td>3/4 (19.05)</td>
<td>3/8 (9.52)</td>
</tr>
<tr>
<td>Drain hose connection</td>
<td>Liquid (Flare)</td>
<td>Liquid (Flare)</td>
</tr>
<tr>
<td></td>
<td>ø 3/4 (I.D.), ø 1-1/16 (O.D.)</td>
<td>ø 3/8 (9.52), ø 1-9/16 (15.88)</td>
</tr>
</tbody>
</table>

**OPTIONAL PARTS**

- IR Receiver Kit
- Air Outlet Shutter Plate
- Panel Spacer
- Fresh Air Intake Kit
- Infloor Kit
- Wide Panel
- Insulation Kit for High Humidity
- Fresh Air Intake Kit
- Standard fresh air intake kit
- Cape: 5-9/16 (142)
- Front part: 14-1/8 (358)
- Rear part: 37-3/8 (950) 31-5/6 (796)
- View A

**IMPROVEMENT OF AIRFLOW DISTRIBUTION**

Aerodynamic louver design and dynamic motorized movement improves air distribution.

**HIGH CEILING MODE**

This cassette can be installed up to a height of 13-3/4ft. (4.2m) (AUUA36).

- Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.
- Designed by Computational Fluid Dynamics (CFD) simulations
- Optimization of wing form (laminar wing type) and wing number (7 blades each)
- Adoption of laminar wing

- Built-in high-loft drain pump
- High Lift Drain Pump
- Ceiling panel
- Built-in high lift drain pump
- Ceiling opening
- Rear view
- Ceiling panel
- Ceiling opening
- Built-in high lift drain pump
- Ceiling panel
- Ceiling opening
- Rear view
- Ceiling panel
- Ceiling opening
- Built-in high lift drain pump
- Ceiling panel
- Ceiling opening
- Rear view
- Ceiling panel
- Ceiling opening
- Built-in high lift drain pump
- Ceiling panel
- Ceiling opening

**HIGH CEILING MODE**

- This cassette can be installed up to a height of 13-3/4ft. (4.2m) (AUUA36).
- Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.
- Designed by Computational Fluid Dynamics (CFD) simulations
- Optimization of wing form (laminar wing type) and wing number (7 blades each)
- Adoption of laminar wing

- Built-in high-loft drain pump
- High Lift Drain Pump
- Ceiling panel
- Built-in high lift drain pump
- Ceiling panel
- Ceiling opening
- Rear view
- Ceiling panel
- Ceiling opening
- Built-in high lift drain pump
- Ceiling panel
- Ceiling opening
- Built-in high lift drain pump
- Ceiling panel
- Ceiling opening
- Built-in high lift drain pump
- Ceiling panel
- Ceiling opening

**ADJUSTABLE HANGER POSITION**

Adjustment can be done by taking off the corner grille.
Large Circular Flow Cassette

AUUB18TLAV1 (reduced height)
AUUB24TLAV1 (reduced height)
AUUB30TLAV1 (reduced height)
AUUB36TLAV1
AUUB48TLAV1

BEETTER AIR DISTRIBUTION USING 360-DEGREE LOUVERS

Circular flow design allows conditioned air to reach every corner of a room.

QUIET OPERATION AND 6 FAN SPEED CONTROL

With 6 fan speeds to choose from, circular flow cassette models operate at whisper quiet sound levels.

6-Step Speed

High
Med-Hi
Med
Low
Med-Hi
Med
Low

INDIVIDUAL LOUVER CONTROL

Each louver can be set individually to bring comfortable air exactly where you want it in any room configuration. Compatible remotes and control options are: Touch Panel Wired RC (UTY-RNRUZ2) / Touch Panel Controller (UTY-DTGY21), System Controller (UTY-APGQ21) / / System Controller Lite (UTY-ALQGQ21).

OCCUPANCY/HUMAN SENSOR SETTING (OPTIONAL)

Automatically saves energy by detecting occupancy if unit is left on and room becomes unoccupied.

2 modes can be selected.

- Auto saving
- Auto OFF

Control of louvers, including swinging direction, keeps individuals from having air blown directly on them.

OPTIONAL PARTS

- Wired Remote Control (Touch Panel)...........UTY-RNRUZ2
- Wireless Remote Control .......................UTY-LNHU
- Simple Remote Control ...............UTY-RSRY, UTY-RHRY

- IR Receiver Unit .....................................UTY-LBHDX
- Human Sensor Kit ..............................UTY-SHZXC
- Air Outlet Shutter Plate ..........................UTR-YDZK
- Insulation Kit For High Humidity ............UTZ-KXRA

Note: Specifications are based on the following conditions: Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

Specifications: Dimensions (H×W×D) in (mm)

- AUUB18TLAV1 / AUUB24TLAV1 / AUUB30TLAV1 / AUUB36TLAV1 / AUUB48TLAV1
- AUUB18TLAV1 / AUUB24TLAV1 / AUUB30TLAV1 / AUUB36TLAV1 / AUUB48TLAV1

Dimensions

- H: 33-1/16 (840) - 33-1/16 (840)
- W: 9-11/16 (246) - 9-11/16 (246)
- D: 9-11/16 (246) - 9-11/6 (246)

Dimensions (in (mm))

- H: 288 × 840 × 840
- W: 246 × 840 × 840
- D: 246 × 840 × 840

Weight

- AUUB18TLAV1: 53 (24) - 54 (24.5)
- AUUB24TLAV1: 65 (29.5) - 65 (29.5)

Connection pipe diameter

- Gas pipe: 1/2 (12.70) - 5/8 (15.88)
- Liquid pipe: 1/4 (6.35) - 3/8 (9.52)

Note: Specifications are based on the following conditions: Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.
**Slip Compact Duct**

**ARUL4TLAV1 MINI**
**ARUL7TLAV SLIM**
**ARUL9TLAV SLIM**
**ARUL12TLAV SLIM**
**ARUL14TLAV SLIM**
**ARUL18TLAV SLIM**

(Drain pump internal models)

**SLIM DESIGN**

This model has a slim design so it can be installed in narrow ceilings with minimum height requirement.

**FLEXIBLE INSTALLATION**

Slim Compact Duct units can be mounted horizontally or vertically and can deliver up to 0.36" external static pressure providing the power and flexibility to meet the needs of most applications.

**Air Intake Direction**

Air intake direction can be selected to match the installation site.

**Selectable External Static Pressure**

The external static pressure can be selected for any value from 0 to 0.36 in.WG. (0 to 90 Pa). Static pressure setting can be changed using the remote controller.

**Condensate Drain Pump**

Condensate drain pump is standard accessory.

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARUL4TLAV1</th>
<th>ARUL7TLAV</th>
<th>ARUL9TLAV</th>
<th>ARUL12TLAV</th>
<th>ARUL14TLAV</th>
<th>ARUL18TLAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>1.0kW</td>
<td>1.5kW</td>
<td>2.0kW</td>
<td>2.5kW</td>
<td>3.0kW</td>
<td>4.0kW</td>
</tr>
<tr>
<td>Input power</td>
<td>26W</td>
<td>44W</td>
<td>50W</td>
<td>54W</td>
<td>92W</td>
<td>83W</td>
</tr>
<tr>
<td>Static pressure range (in.WG)</td>
<td>0 to 0.12 (0 to 30)</td>
<td>0 to 0.36 (0 to 90)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (lbs.)</td>
<td>32 (14.5)</td>
<td>37 (17)</td>
<td>37 (17)</td>
<td>40 (18)</td>
<td>40 (18)</td>
<td>49 (22)</td>
</tr>
<tr>
<td>Drain hose diameter (I.D./O.U.)</td>
<td>3/4 / 1-1/16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**OPTIONAL PARTS**

- **Auto Louver Grille Kit** (for ARUL4TLAV1)
  - UTD-GXTA-W
  - UTD-GXSA-W (for ARUL18TLAV)

- **Remote Sensor Unit**
  - UTY-XSZX

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**DIMENSIONS**

- **Filter (2pcs.)**
- **Economizer and filter box options are available through affiliated third party. Ask your local Fujitsu Airstage distributor for details.**
Medium Static Pressure Duct

ARUM24TLAV
ARUM30TLAV
ARUM36TLAV

SLIM & COMPACT DESIGN
In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of 10-5/8in (270mm), further space savings have been achieved by mounting the electrical control box internally inside the chassis.

EASY MAINTENANCE
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARUM24TLAV</th>
<th>ARUM30TLAV</th>
<th>ARUM36TLAV</th>
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<tbody>
<tr>
<td>Model name</td>
<td></td>
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<tr>
<td>Capacity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input power</td>
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<tr>
<td>W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input power</td>
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<td></td>
</tr>
<tr>
<td>W</td>
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<tr>
<td>Static pressure range</td>
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<td>(Pa)</td>
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<tr>
<td>CFM</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Sound pressure level</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>(Lw)</td>
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</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>(H × W × D)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drain hose diameter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(I.D./O.U.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lbs.(kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Specifications are based on the following conditions.
- Cooling: Indoor temperature of 70°F(21°C) DB/67°F(19°C) WB, and outdoor temperature of 95°F(35°C) DB/75°F(23.9°C) WB.
- Heating: Indoor temperature of 70°F(21°C) DB/67°F(19°C) WB, and outdoor temperature of 47°F(8°C) DB/34°F(1.7°C) WB.
- Refrigerant pipe: ø3/4 (I.D.), ø1-1/16 (O.D.)
- Drain hose: ø3/4 (I.D.), ø1-1/16 (O.D.)
- Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

HIGH EFFICIENCY DC FAN MOTORS
Improved motor efficiency from previous model.

DIMENSIONS

ARUM24TLAV
ARUM30TLAV
ARUM36TLAV

OPTIONAL PARTS
- Drain Pump Unit: UTZ-PU1NBA
- Long Life Filter*: UTD-LF25NA
- Flange (Square): UTD-SF045T
- Flange (Round): UTD-RF045T
- IR Receiver Unit: UTD-YWC
- Remote Sensor Unit: UTY-Y2K

*Note, Medium Static Pressure Duct models do not include a standard filter.
High Static Pressure Duct (3, 4, 5 ton)

ARUH36TLAV
ARUH48TLAV
ARUH60TLAV

High Static Pressure Ducted Units combine efficient casing design with non-metallic fan wheels and casings to reduce noise levels; units are capable of delivering hot or cold air at static pressures up to 1 in. WG. These units are perfect for conditioning hard-to-reach areas and are able to meet the needs of many different types of applications.

EASY INSTALLATION (COMPACT SIZE & LIGHTWEIGHT)

Equipped with a compact and lightweight chassis to simplify installation and provide better flexibility for tight installation spaces.

HIGH STATIC PRESSURE DESIGN

Up to 1 in. WG (250Pa)

QUIET OPERATION

Indoor unit
Efficient chassis design reduces turbulence.
Non-metallic fan wheel and casing reduces fan noise.

OPTIONAL PARTS

Long-Life Filter* ...........UTD-LF60KA
IR Receiver Unit ............UTB-YWC
Remote Sensor Unit ......UTY-XSZX

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ARUH36TLAV</th>
<th>ARUH48TLAV</th>
<th>ARUH60TLAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Name</td>
<td>ARUH36TLAV</td>
<td>ARUH48TLAV</td>
<td>ARUH60TLAV</td>
</tr>
<tr>
<td>Power source</td>
<td>1 Phase ~ 208/230V 60Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>36,000 BTUh kW 10.6</td>
<td>48,000 BTUh kW 14.1</td>
<td>60,000 BTUh kW 17.6</td>
</tr>
<tr>
<td>Heating Capacity</td>
<td>40,000 BTUh kW 11.7</td>
<td>54,000 BTUh kW 15.8</td>
<td>67,000 BTUh kW 19.6</td>
</tr>
<tr>
<td>Input power</td>
<td>496 W</td>
<td>752 W</td>
<td>806 W</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>High CFM (m³/h) 1,324 (2,250)</td>
<td>1,766 (3,000)</td>
<td>1,972 (3,350)</td>
</tr>
<tr>
<td></td>
<td>Med CFM (m³/h) 1,030 (1,750)</td>
<td>1,589 (2,700)</td>
<td>1,678 (2,850)</td>
</tr>
<tr>
<td></td>
<td>Low CFM (m³/h) 824 (1,400)</td>
<td>1,354 (2,300)</td>
<td>1,501 (2,550)</td>
</tr>
<tr>
<td>Static pressure range in. WG (Pa) 0.40 to 0.80 (100 to 200)</td>
<td>0.40 to 1.00 (100 to 250)</td>
<td>0.40 to 1.00 (100 to 250)</td>
<td></td>
</tr>
<tr>
<td>Standard static pressure in. WG (Pa) 0.40 (100)</td>
<td>0.40 (100)</td>
<td>0.40 (100)</td>
<td></td>
</tr>
<tr>
<td>Sound pressure level in. DB(A) High 43</td>
<td>47</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Med 37</td>
<td>43</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>Low 32</td>
<td>40</td>
<td>41</td>
</tr>
<tr>
<td>Dimensions (H × W × D) in. (mm) 15-3/4 × 41-5/16 × 19-11/16 (400 × 1,050 × 500)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight lbs. (kg) 97 (44)</td>
<td>101 (46)</td>
<td>101 (46)</td>
<td></td>
</tr>
<tr>
<td>Connection pipe diameter (I.D./O.D.) Liquid (Flare) 3/8 (9.52)</td>
<td>3/8 (9.52)</td>
<td>3/8 (9.52)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gas (Flare) 3/4 (19.05)</td>
<td>3/4 (19.05)</td>
<td>3/4 (19.05)</td>
</tr>
</tbody>
</table>

DIMENSIONS

Economizer and filter box options are available through affiliated third party. Ask your local Fujitsu Airstage distributor for details.
**High Static Pressure Duct (6, 8 ton)**

**ARUH72TLAV1**
**ARUH96TLAV**

High static pressure ducted units combine efficient casing design and powerful DC blower fans to deliver efficient high static pressure up to 1.2 in.WG.

*Connectable combinations.*

Outdoor unit: AOUA72RLAV
Indoor unit: ARUH72TLAV1

Outdoor unit: AOUA96RLAV
Indoor unit: ARUH96TLAV

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARUH72TLAV1</th>
<th>ARUH96TLAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>1 Phase ~ 208/230V 60Hz</td>
<td>208/230V 60Hz</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>72,000 BTUh</td>
<td>96,000 BTUh</td>
</tr>
<tr>
<td>Heating</td>
<td>21.1 kW</td>
<td>28.1 kW</td>
</tr>
<tr>
<td><strong>Input power</strong></td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>618</td>
<td>838</td>
</tr>
<tr>
<td>Heating</td>
<td>600</td>
<td>810</td>
</tr>
<tr>
<td><strong>Airflow rate</strong></td>
<td>CFM (m3/h)</td>
<td>(m3/h)</td>
</tr>
<tr>
<td>High</td>
<td>2296 (3900)</td>
<td>2855 (4850)</td>
</tr>
<tr>
<td>Med</td>
<td>1942 (3300)</td>
<td>2502 (4250)</td>
</tr>
<tr>
<td>Low</td>
<td>1766 (3000)</td>
<td>2119 (3600)</td>
</tr>
<tr>
<td><strong>Static pressure range</strong></td>
<td>in.WG (Pa)</td>
<td>0 to 1.2 (0 to 300)</td>
</tr>
<tr>
<td><strong>Sound pressure</strong></td>
<td>dB(A)</td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>47</td>
<td>48</td>
</tr>
<tr>
<td>Med</td>
<td>43</td>
<td>45</td>
</tr>
<tr>
<td>Low</td>
<td>40</td>
<td>42</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>(H × W × D) in.(mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17-11/16 × 62-1/2 × 27-9/16 (450 × 1587 × 700)</td>
<td>21-5/8 × 62-1/2 × 27-9/16 (550 × 1587 × 700)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>lbs. (kg)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>203 (92)</td>
<td>231 (105)</td>
</tr>
<tr>
<td><strong>Connection pipe diameter</strong></td>
<td>in.(mm)</td>
<td></td>
</tr>
<tr>
<td>Liquid (Flare)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
</tr>
<tr>
<td>Gas (Flare)</td>
<td>7/8 (22.22)</td>
<td>7/8 (22.22)</td>
</tr>
<tr>
<td><strong>Drain hose diameter</strong></td>
<td>I.D./O.U.</td>
<td></td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>3/4 (19.05)</td>
<td>1-1/16 (25.4)</td>
</tr>
<tr>
<td>Indoor unit</td>
<td>3/4 (19.05)</td>
<td>1-1/16 (25.4)</td>
</tr>
</tbody>
</table>

---

**OPTIONAL PARTS**

- IR Receiver Unit .......... UTB-YWC
- Remote Sensor Unit ....... UTY-XSC2

---

**HIGH ENERGY SAVING AND FLEXIBLE DESIGN BY USING DC MOTOR**

With its adjustable static pressure range from 0.0 to 1.2 in.WG, to its efficient DC fan motor, these high static pressure ducted units are designed for flexibility and efficiency.

**EASY SERVICE & MAINTENANCE**

Left and right fan motors can be removed separately which has made servicing of the indoor unit easier.

**DIMENSIONS**

---

Economizer and filter box options are available through affiliated third party. Ask your local Fujitsu Airestage distributor for details.
### Vertical Air Handler

<table>
<thead>
<tr>
<th>Model</th>
<th>ARUV12TLAV</th>
<th>ARUV18TLAV</th>
<th>ARUV24TLAV</th>
<th>ARUV30TLAV</th>
<th>ARUV36TLAV</th>
<th>ARUV48TLAV</th>
<th>ARUV60TLAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>1 Phase ~ 208/230V 60Hz</td>
<td>1 Phase ~ 208/230V 60Hz</td>
<td>1 Phase ~ 208/230V 60Hz</td>
<td>1 Phase ~ 208/230V 60Hz</td>
<td>1 Phase ~ 208/230V 60Hz</td>
<td>1 Phase ~ 208/230V 60Hz</td>
<td>1 Phase ~ 208/230V 60Hz</td>
</tr>
</tbody>
</table>

#### SPECIFICATIONS

**Model Name**: ARUV12TLAV
**Input power**: 87 W
**Dimensions (H × W × D)**: 51 × 17-11/16 × 23-13/16 in. (1,295 × 450 × 605 mm)
**Weight**: 139 lbs. (63 kg)
**Connection pipe diameter**: 1/4 in. (6.35 mm)
**Drain hose diameter (I.D.)**: 3/4 in. (19.05 mm)
**Electrical control box**: Fan motor, Fan, Condenser
**Air filter**:

#### OPTIONS PARTS

- IR Receiver Unit: UTR-YWC
- Remote Sensor Unit: UTY-XSZX

#### DIMENSIONS

**Model Name**: ARUV12TLAV
**Input power**: 87 W
**Dimensions (H × W × D)**: 51 × 17-11/16 × 23-13/16 in. (1,295 × 450 × 605 mm)
**Weight**: 139 lbs. (63 kg)
**Connection pipe diameter**: 1/4 in. (6.35 mm)
**Drain hose diameter (I.D.)**: 3/4 in. (19.05 mm)
**Electrical control box**: Fan motor, Fan, Condenser
**Air filter**:

#### FLEXIBLE LINE-UP WITH WIDE CAPACITY RANGE AND HIGH STATIC PRESSURE

- Selectable capacities from 1 to 5 tons.
- Broad static pressure range for a wide range of applications.
- Durable powder-coated thick steel gauge cabinet.
- Acoustical and thermal insulation is upgraded from 1/2” to 1” thick to reduce heat loss.
- Equipped with standard MERV 3 filter.
- Easily retrofitted into existing installations.

#### FRONT ACCESSIBILITY

- Front panel provides easy access for setup and maintenance.

#### SMALL FOOTPRINT

- ARUV12, 18, 24: 17-3/4" x 23-3/4"
- ARUV30, 36: 22-1/4" x 23-3/4"
- ARUV48, 60: 25-1/8" x 23-3/4"
## Floor Mount

**AGUA4TLAV1**  
**AGUA7TLAV1**  
**AGUA9TLAV1**  
**AGUA12TLAV1**  
**AGUA14TLAV1**

### Dual Fans and Wide Airflow

Individual vertical airflow by 2 fans control the whole room comfortably.

### Flexible and Easy Installation

With 6 fan speeds to choose from, floor mounted models operate as quietly as 22 dB(A).

### Quiet Operation

At less than 24" high and 30" wide, floor mount models fit easily under a standard window and can replace a radiator twice its size while producing more capacity.

### Flexible Piping Connection

There are 6 positions for drain hose and piping to choose from: right, left, side and down positions.

### Specifications & Dimensions

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power Source</th>
<th>Capacity (Cooling)</th>
<th>Capacity (Heating)</th>
<th>Input Power</th>
<th>Max. Operating Current</th>
<th>Sound pressure level (High)</th>
<th>Dimensions (H x W x D)</th>
<th>Weight</th>
<th>Connection pipe diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGUA4TLAV1</td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td>4,000 BTU/h</td>
<td>1.2 kW</td>
<td>12,600 W</td>
<td>0.19 A</td>
<td>35/36*</td>
<td>23-5/8 × 29-1/8 × 7-7/8 (600 × 740 × 200)</td>
<td>33 (15)</td>
<td>1/4 (6.35)</td>
</tr>
<tr>
<td>AGUA7TLAV1</td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td>7,500 BTU/h</td>
<td>2.2 kW</td>
<td>17,000 W</td>
<td>0.22 A</td>
<td>35/36*</td>
<td>23-5/8 × 29-1/8 × 7-7/8 (600 × 740 × 200)</td>
<td>33 (15)</td>
<td>1/4 (6.35)</td>
</tr>
<tr>
<td>AGUA9TLAV1</td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td>9,500 BTU/h</td>
<td>2.8 kW</td>
<td>19,000 W</td>
<td>0.24 A</td>
<td>37</td>
<td>23-5/8 × 29-1/8 × 7-7/8 (600 × 740 × 200)</td>
<td>33 (15)</td>
<td>1/4 (6.35)</td>
</tr>
<tr>
<td>AGUA12TLAV1</td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td>12,000 BTU/h</td>
<td>3.5 kW</td>
<td>22,000 W</td>
<td>0.25 A</td>
<td>39</td>
<td>23-5/8 × 29-1/8 × 7-7/8 (600 × 740 × 200)</td>
<td>33 (15)</td>
<td>1/4 (6.35)</td>
</tr>
<tr>
<td>AGUA14TLAV1</td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td>14,000 BTU/h</td>
<td>4.1 kW</td>
<td>29,000 W</td>
<td>0.38 A</td>
<td>46</td>
<td>23-5/8 × 29-1/8 × 7-7/8 (600 × 740 × 200)</td>
<td>33 (15)</td>
<td>1/4 (6.35)</td>
</tr>
</tbody>
</table>

*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. (7.5m), Height difference : 0ft.(0m)(Outdoor unit - indoor unit).  

Note: Specifications are based on the following conditions: Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges. Cooling / Heating temperature at 77°F(25°C)/68°F(20°C)DB, and outdoor temperature at 95°F(35°C)DB/75°F(23.9°C)WB. Wall mounted models operate as quietly as 22 dB(A). **6-Step Speed**

### Optional Parts

- Wired Remote Controller ............ UTY-RNRU22  
- Wireless Remote Controller ....... UTY-LNHU  
- Simple Remote Controller .......... UTY-RSRY, UTY-RHRY  
- Half Concealed Kit ................. UTR-STA

---

**FLEXIBLE PIPING CONNECTION**

There are 6 positions for drain hose and piping to choose from: right, left, side and down positions.

**QUIET OPERATION**

With 6 fan speeds to choose from, floor mounted models operate as quietly as 22 dB(A).

**FLEXIBLE AND EASY INSTALLATION**

At less than 24" high and 30" wide, floor mount models fit easily under a standard window and can replace a radiator twice its size while producing more capacity.
**Floor / Ceiling**

**ABUA12TLAV**
**ABUA14TLAV**
**ABUA18TLAV**
**ABUA24TLAV**

The slim and lightweight design allows the unit to be suspended from the ceiling or installed on the floor, offering flexibility in design.

**FLEXIBLE INSTALLATION**

**Example of floor installation**

**Floor console**

**EXAMPLE OF CEILING INSTALLATION**

**Under ceiling**

**FOUR-WAY LOUVER SWING**

A combination of up/down and right/left directional louver swing provides better air distribution in larger spaces.

**1. RIGHT and LEFT SWING**

**2. UP and DOWN SWING**

**4 selectable positions**

**BETTER LOUVER DESIGN**

Engineered louver design boosts airflow sending cool air quickly to every corner of the room.

**AUTO-CLOSING LOUVER**

When operation is stopped, the louvers will automatically close.

**COMPACT DESIGN**

Symmetrical, slim and compact design.

**HIGH POWER DC FAN MOTOR**

- High power
- High efficiency

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>RECOOL / VT/L</th>
<th>ABUSA12TLAV</th>
<th>ABUSA14TLAV</th>
<th>ABUSA18TLAV</th>
<th>ABUSA24TLAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant flow</td>
<td>15.5</td>
<td>17.5</td>
<td>19.5</td>
<td>21.5</td>
<td></td>
</tr>
<tr>
<td>Airflow rate</td>
<td>388 (660)</td>
<td>456.5 (745)</td>
<td>489 (800)</td>
<td>589 (950)</td>
<td></td>
</tr>
<tr>
<td>Low</td>
<td>288 (460)</td>
<td>317 (500)</td>
<td>354 (570)</td>
<td>495 (800)</td>
<td></td>
</tr>
<tr>
<td>Med</td>
<td>336 (550)</td>
<td>377 (640)</td>
<td>424 (720)</td>
<td>483 (820)</td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>388 (660)</td>
<td>456.5 (745)</td>
<td>489 (800)</td>
<td>589 (950)</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions (H × W × D) in.(mm)**

- 7-13/16 × 39 × 25-13/16 (199 × 990 × 655)

**Weight lbs.(kg)**

- 56 (25) 57 (26) 57 (26) 60 (27)

**Connection pipe diameter**

- Liquid (Flare): 1/4 (6.35) 1/4 (6.35) 3/8 (9.52) 3/8 (9.52)
- Gas (Flare): 1/2 (12.70) 1/2 (12.70) 5/8 (15.88) 5/8 (15.88)

**Drain hose diameter (Drain Hose)**

- ø 3/4 (9.52)

**Knock out hole (Drain Outlet)**

- ø 1-1/16 (26)

**Knock out hole**

- ø 1-3/16 (45)

**Hole for lifting bolt**

- ø 1-3/4 (47)

**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), Height difference: 0 ft (0 m) (Outdoor unit - Indoor unit).

Built-in protective functions may limit capacity or shut off unit if it is operated outside of unit design operating temperature ranges.
Ceiling

ABUA30TLAV
ABUA36TLAV

Powerful ceiling-hung indoor units are easy to install and can provide plenty of warm or cold air to a large space. Ceiling-hung units are the perfect solution for large spaces such as classrooms, restaurants, and kitchens.

Note: IR Receiver is standard for communicating with optional Wireless Remote Control.

INSTALLATION

Open

General installation pattern which suspends the indoor unit from the ceiling.

Concealed

Installation pattern where part of the indoor unit is embedded into the ceiling.

Wall-mounted

Installation which has the indoor unit to the wall by the use of wall brackets (field supplied). This type of installation can be used when the ceiling space is insufficient.

SLIM & COMPACT DESIGN

Height 9-7/16 in (240 mm)

HIGH POWER DC FAN MOTOR

• High power
• High efficiency

SPECIFICATIONS

Model name

ABUA30TLAV
ABUA36TLAV

Power source

1 Phase - 208/230V 60Hz

Capacity

Cooling
30,000 BTU (8.8 kW)

Heating
34,000 BTU (10.0 kW)

Input power

85 W

Airflow rate

High
859 (1,630) CFM (m3/h)

Med
806 (1,370) CFM (m3/h)

Low
671 (1,140) CFM (m3/h)

Sound pressure level

High
42 dB (A)

Med
38 dB (A)

Low
33 dB (A)

Dimensions (H × W × D) in.(mm)

9-7/16 × 65-3/8 × 27-9/16 (240 × 1,660 × 700)

Weight

101 lbs (46 kg)

Connection pipe diameter

Liquid (Flare)
3/8 (9.52) in

Gas (Flare)
5/8 (15.88) in

Drain hose diameter

3/4 (1-1/16)

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 95.0°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), Height difference.: 0ft.(0 m) (Outdoor unit - Indoor unit).

Built-in protective functions may limit capacity or shut off the unit if unit is operated outside of unit design operating temperature ranges.

OPTIONAL PARTS

Drain Pump Unit...UTZ-PU1EBA / UTR-DPB24T
Flange.................UTD-RF204

FRESH AIR INTAKE

High Efficiency long-life filter doubles the life of the filter compared to standard filters.

FOUR-WAY LOUVER SWING

Auto airflow direction and auto swing

LONG AIRFLOW

Long Airflow ensures comfort to every corner of a large room.
### Compact Wall Mounted

**ASUA4TLAV1**
- **ASUA4TLAV1**
- **ASUA7TLAV1**
- **ASUA9TLAV1**
- **ASUA12TLAV1**
- **ASUA14TLAV1**

#### EASY INSTALLATION
Communication wiring can be easily installed by opening the front panel and wire cover.

#### HIGH DENSITY HEAT EXCHANGER
Thin tube technology: 3/16 in. (5mm) The heat exchanger volume has been increased by adopting a high density, large heat exchanger.

#### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ASUA4TLAV1</th>
<th>ASUA7TLAV1</th>
<th>ASUA9TLAV1</th>
<th>ASUA12TLAV1</th>
<th>ASUA14TLAV1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>4,000</td>
<td>7,500</td>
<td>9,500</td>
<td>12,000</td>
<td>14,000</td>
</tr>
<tr>
<td>Heating</td>
<td>1.2</td>
<td>2.2</td>
<td>2.8</td>
<td>3.5</td>
<td>4.2</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Input Power</strong></td>
<td>W 13</td>
<td>19</td>
<td>34</td>
<td>25</td>
<td>36</td>
</tr>
<tr>
<td><strong>Airflow rate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>253 (430)</td>
<td>324 (550)</td>
<td>424 (720)</td>
<td>406 (690)</td>
<td>471 (800)</td>
</tr>
<tr>
<td>Med-Hi</td>
<td>247 (420)</td>
<td>271 (460)</td>
<td>336 (570)</td>
<td>359 (610)</td>
<td>436 (740)</td>
</tr>
<tr>
<td>Med</td>
<td>230 (390)</td>
<td>247 (420)</td>
<td>294 (500)</td>
<td>330 (560)</td>
<td>400 (680)</td>
</tr>
<tr>
<td>Low-Hi</td>
<td>224 (380)</td>
<td>230 (390)</td>
<td>241 (410)</td>
<td>312 (530)</td>
<td>359 (610)</td>
</tr>
<tr>
<td>Low</td>
<td>212 (360)</td>
<td>212 (360)</td>
<td>212 (360)</td>
<td>277 (470)</td>
<td>324 (550)</td>
</tr>
<tr>
<td>Quiet</td>
<td>194 (330)</td>
<td>194 (330)</td>
<td>194 (330)</td>
<td>194 (330)</td>
<td>194 (330)</td>
</tr>
<tr>
<td><strong>Sound pressure level</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>31</td>
<td>35</td>
<td>43</td>
<td>40</td>
<td>44</td>
</tr>
<tr>
<td>Med-Hi</td>
<td>30</td>
<td>32</td>
<td>38</td>
<td>37</td>
<td>42</td>
</tr>
<tr>
<td>Med</td>
<td>28</td>
<td>30</td>
<td>34</td>
<td>35</td>
<td>40</td>
</tr>
<tr>
<td>Low-Hi</td>
<td>26</td>
<td>27</td>
<td>29</td>
<td>33</td>
<td>37</td>
</tr>
<tr>
<td>Low</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>Quiet</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td><strong>Dimensions (H x W x D)</strong></td>
<td>10-5/16 × 32-5/16 × 8-1/8 (262 × 820 × 206)</td>
<td>10-9/16 × 33-1/16 × 8 (268 × 840 × 203)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>17 (7.5)</td>
<td>17 (7.5)</td>
<td>17 (7.5)</td>
<td>20 (9)</td>
<td>20 (9)</td>
</tr>
<tr>
<td><strong>Connection pipe diameter</strong></td>
<td>Ø1/4 (6.35)</td>
<td>Ø1/4 (6.35)</td>
<td>Ø1/4 (6.35)</td>
<td>Ø1/4 (6.35)</td>
<td>Ø1/4 (6.35)</td>
</tr>
<tr>
<td><strong>Liquid (Flare)</strong></td>
<td>Ø3/8 (9.52)</td>
<td>Ø3/8 (9.52)</td>
<td>Ø3/8 (9.52)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
</tr>
<tr>
<td><strong>Gas (Flare)</strong></td>
<td>Ø3/8 (9.52)</td>
<td>Ø3/8 (9.52)</td>
<td>Ø3/8 (9.52)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
</tr>
</tbody>
</table>

*Note: Specifications are based on the following conditions.*

**VC-H**

#### COMFORTABLE AIRFLOW

**6 FAN SPEED CONTROL (ASUA4TLAV1 only)**

With 6 fan speeds to choose from, these wall mounted models operate as quietly as 22 dB(A).

**COMFORTABLE AIRFLOW**

Heating
- Vertical airflow provides powerful floor level heating

Cooling
- Horizontal airflow does not blow cool air directly at the occupants in the room.

**OPTIONAL PARTS**

- Wired Remote Control (Touch Panel): UTY-RNRUZ2
- Wireless Remote Control: UTY-LNHU
- Simple Remote Control: UTY-RSRY, UTY-RHRY

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ASUA4TLAV1</th>
<th>ASUA7TLAV1</th>
<th>ASUA9TLAV1</th>
<th>ASUA12TLAV1</th>
<th>ASUA14TLAV1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Model Name</strong></td>
<td>ASUA4TLAV1</td>
<td>ASUA7TLAV1</td>
<td>ASUA9TLAV1</td>
<td>ASUA12TLAV1</td>
<td>ASUA14TLAV1</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>32-5/16 (820)</td>
<td>33-1/16 (840)</td>
<td>32-5/16 (820)</td>
<td>33-1/16 (840)</td>
<td>33-1/16 (840)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>10-5/16 (262)</td>
<td>10-9/16 (268)</td>
<td>10-5/16 (262)</td>
<td>10-9/16 (268)</td>
<td>10-9/16 (268)</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>8 (203)</td>
<td>8 (203)</td>
<td>8 (203)</td>
<td>8 (203)</td>
<td>8 (203)</td>
</tr>
</tbody>
</table>

*Note: Specifications are based on the following conditions.*

**VC-H**
### Wall Mounted

**ASUB18TLAV1**
**ASUB24TLAV1**
**ASUB30TLAV1**
**ASUB36TLAV1**

#### COMFORTABLE AIRFLOW

- **Power diffuser**
  - (ASUB18/24TLAV1)
- **Distributes airflow 20% further!**

#### 6 FAN SPEED CONTROL

With 6 fan speeds to choose from, these wall mounted models operate as quietly as 33 dB(A). Note: This applies to models ASUB30TLAV1 and ASUB36TLAV1.

![6 FAN SPEED CONTROL](image)

#### COMFORTABLE AIRFLOW

**Power diffuser**
- (ASUB18/24TLAV1)

**Distributes airflow 20% further!**

**Powerful Airflow**
- (ASUB30TLAV1)

### OCCUPANCY/HUMAN SENSOR SETTING

Models ASUB30/36TLAV1 only

The occupancy function automatically saves energy when zone becomes unoccupied. It does that by sensing occupancy based on an adjustable interval (15-180 minutes). In this case, the unit either goes into power save mode, or shuts off.

This setting is only available through optional Wired Remote Control (Touch Panel) UT-Y-RNRUZ2.

### SPECIFICATIONS

#### Wall Mounted

<table>
<thead>
<tr>
<th>Model Code</th>
<th>ASUB18TLAV1</th>
<th>ASUB24TLAV1</th>
<th>ASUB30TLAV1</th>
<th>ASUB36TLAV1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
<td>1 Phase - 208 / 230V ~ 60Hz</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>BTU/h</td>
<td>18,000</td>
<td>24,000</td>
<td>30,000</td>
</tr>
<tr>
<td><strong>kW</strong></td>
<td></td>
<td>5.3</td>
<td>7.0</td>
<td>8.8</td>
</tr>
<tr>
<td><strong>Heating</strong></td>
<td>BTU/h</td>
<td>20,000</td>
<td>27,000</td>
<td>34,000</td>
</tr>
<tr>
<td><strong>kW</strong></td>
<td></td>
<td>5.9</td>
<td>7.9</td>
<td>10.0</td>
</tr>
<tr>
<td><strong>Input Power</strong></td>
<td>W</td>
<td>32</td>
<td>60</td>
<td>74</td>
</tr>
<tr>
<td><strong>Airflow rate</strong></td>
<td>CFM (m³/h)</td>
<td>494 (840)</td>
<td>647 (1,100)</td>
<td>848 (1,440)</td>
</tr>
<tr>
<td><strong>Fan Speeds</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Quiet</strong></td>
<td></td>
<td>33 (690)</td>
<td>33 (690)</td>
<td></td>
</tr>
<tr>
<td><strong>Lo-Hi</strong></td>
<td></td>
<td>553 (940)</td>
<td>577 (980)</td>
<td></td>
</tr>
<tr>
<td><strong>Med</strong></td>
<td></td>
<td>453 (840)</td>
<td>536 (910)</td>
<td>618 (1,050)</td>
</tr>
<tr>
<td><strong>Med-Hi</strong></td>
<td></td>
<td>706 (1,200)</td>
<td>765 (1,300)</td>
<td></td>
</tr>
<tr>
<td><strong>High</strong></td>
<td></td>
<td>494 (840)</td>
<td>58 (1,100)</td>
<td>848 (1,440)</td>
</tr>
<tr>
<td><strong>Sound pressure level</strong></td>
<td>dB(A)</td>
<td>41</td>
<td>48</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>(H x W x D) in.(mm)</td>
<td>12-5/8 × 39-5/16 × 9-3/8 (320 × 998 × 238)</td>
<td>13-3/8 × 45-1/4 × 11 (340 × 1,150 × 280)</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>lbs.(kg)</td>
<td>33 (15)</td>
<td>33 (15)</td>
<td>40 (18)</td>
</tr>
<tr>
<td><strong>Connection pipe diameter</strong></td>
<td>Liquid (Flare) in.(mm)</td>
<td>1/4 (6.35)</td>
<td>3/8 (9.52)</td>
<td>3/8 (9.52)</td>
</tr>
<tr>
<td></td>
<td>Gas (Flare) in.(mm)</td>
<td>1/2 (12.70)</td>
<td>5/8 (15.88)</td>
<td>5/8 (15.88)</td>
</tr>
</tbody>
</table>

#### Optional Parts

- **Wired Remote Control (Touch Panel) ...........** UT-Y-RNRUZ2
- **Wireless Remote Control..........................** UT-Y-LNHU
- **Simple Remote Control ............................** UT-Y-RSRY, UT-Y-RHRY

#### Current model (30/36 class)

- Current model
- Now model

- 35dB(A)
- 33dB(A)

**6-Step Speed**

- High
- Med-Hi
- Med
- Le-Hi
- Low
- Quiet

#### Note:

Specifications are based on the following condition:

- Built-in protective functions may limit capacity or shut off if unit is operated outside of unit design operating temperature ranges.
- Cool: 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.
- Heat: 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.
- Height difference: 0ft.(0m)(Outdoor unit - indoor unit).

#### Dimensions

<table>
<thead>
<tr>
<th>Models:</th>
<th>ASUB18TLAV1 / ASUB24TLAV1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width 1</td>
<td>38 5/16 (968)</td>
</tr>
<tr>
<td>Width 2</td>
<td>11 (280)</td>
</tr>
<tr>
<td>Depth 1</td>
<td>39-5/16</td>
</tr>
<tr>
<td>Depth 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Models:</th>
<th>ASUB30TLAV1 / ASUB36TLAV1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width 1</td>
<td>43 3/4 (1150)</td>
</tr>
<tr>
<td>Width 2</td>
<td>11 (280)</td>
</tr>
<tr>
<td>Depth 1</td>
<td>39-5/16</td>
</tr>
<tr>
<td>Depth 2</td>
<td></td>
</tr>
</tbody>
</table>
compact Wall Mounted (while supplies last)

ASUA7TLAV
ASUA9TLAV
ASUA12TLAV
ASUA14TLAV

Compact (Only 8.5” inches deep) and stylish design.

FILTER FEATURES
High performance filter provides high quality heating and cooling.

- Ion Deodorizing Filter
  The filter deodorizes by decomposing absorbed odors using the oxidizing and reducing effects of ions generated by fine ceramic particles. 3 year life expectancy. Wash to restore surface action.

- Apple-catechin Filter (polyphenol ingredient from apples)
  Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited. 3-12 month life expectancy.

Deodorizing effect

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>30</th>
<th>60</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia (ppm)</td>
<td>160</td>
<td>120</td>
<td>80</td>
<td>40</td>
</tr>
<tr>
<td>Trimethylamine (ppm)</td>
<td>100</td>
<td>60</td>
<td>30</td>
<td>10</td>
</tr>
<tr>
<td>Hydrogen sulfide (ppm)</td>
<td>120</td>
<td>80</td>
<td>40</td>
<td>20</td>
</tr>
</tbody>
</table>

Note: IR Receiver is standard for communicating with optional Wireless Remote Control.

COMPACT SIZE
Powerful output in a compact design
Though the indoor unit is compact, it features a large, high pressure class fan (3-1/2in./90mm diameter) in a center mounted configuration and a Lambda type heat exchanger to provide plenty of power.

SYMTERICAL DESIGN
Symmetrical, clean design that suits all interiors.

HIGH POWER DC FAN MOTOR
- High power
- Wide rotation range
- High efficiency
- Compact size

EASY MAINTENANCE
Maintenance is simple because the front panel can be removed for easy access.

DIMENSIONS

- Indoor Unit
- Outdoor Unit
- Capacitor
- Refrigerant pipe flare connection
- Drain hose connection (Drain Hose)
- Drain hose connection (Drain Hose)
- Power cord connection (Input Power)
- Power cord connection (Input Power)
- Gas connection (Gas)
- Refrigerant pipe flare connection (Liquid)
- Refrigerant pipe flare connection (Liquid)

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model name</th>
<th>ASUA7TLAV</th>
<th>ASUA9TLAV</th>
<th>ASUA12TLAV</th>
<th>ASUA14TLAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>ASUA7TLAV</td>
<td>ASUA9TLAV</td>
<td>ASUA12TLAV</td>
<td>ASUA14TLAV</td>
</tr>
<tr>
<td>Capacity</td>
<td>6500 BTU</td>
<td>9500 BTU</td>
<td>12,000 BTU</td>
<td>14,000 BTU</td>
</tr>
<tr>
<td>Heating</td>
<td>7.5kW</td>
<td>10.9kW</td>
<td>13.5kW</td>
<td>15.6kW</td>
</tr>
<tr>
<td>Cooling</td>
<td>6.6kW</td>
<td>9.4kW</td>
<td>11.2kW</td>
<td>12.8kW</td>
</tr>
<tr>
<td>Input power</td>
<td>1560W</td>
<td>2300W</td>
<td>2800W</td>
<td>3400W</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>High</td>
<td>High</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Low</td>
<td>288 (m3)</td>
<td>288 (m3)</td>
<td>288 (m3)</td>
<td>288 (m3)</td>
</tr>
<tr>
<td>Medium</td>
<td>314 (m3)</td>
<td>314 (m3)</td>
<td>314 (m3)</td>
<td>314 (m3)</td>
</tr>
<tr>
<td>Sound pressure (db)</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
<td>High</td>
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<tr>
<td>Low</td>
<td>36</td>
<td>36</td>
<td>36</td>
<td>36</td>
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<tr>
<td>Medium</td>
<td>39</td>
<td>39</td>
<td>39</td>
<td>39</td>
</tr>
<tr>
<td>High</td>
<td>44</td>
<td>44</td>
<td>44</td>
<td>44</td>
</tr>
<tr>
<td>Dimensions (W × H × D) (mm)</td>
<td>31-1/8 (790) × 10-13/16 (275) × 8-7/16 (215)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Connection pipe diameter (in. (mm))</td>
<td>1/4 (6.35)</td>
<td>1/4 (6.35)</td>
<td>1/4 (6.35)</td>
<td>1/4 (6.35)</td>
</tr>
<tr>
<td>Connection pipe diameter (in. (mm))</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</td>
<td>1/2 (12.70)</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), Height difference: 0ft. (0 m) (Outdoor unit - Indoor unit).
Built-in protective functions may limit capacity or shut off unit if it is operated outside of unit design operating temperature ranges.

* Cooling operation / heating operation.
Wall Mounted (while supplies last)

ASUB18TLAV
ASUB24TLAV

COMPACT & SLIM DESIGN
Stylish, slim and elegant, these popular wall mounted units are perfect for smaller rooms where a clean, aesthetic design is preferred. Variable speed DC fan motors deliver heating or cooling quietly and comfortably.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Power source</th>
<th>ASUB18TLAV</th>
<th>ASUB24TLAV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (BTUh)</td>
<td>18,000</td>
<td>24,000</td>
</tr>
<tr>
<td>Capacity (kW)</td>
<td>5.3</td>
<td>7.0</td>
</tr>
<tr>
<td>Input power (W)</td>
<td>32</td>
<td>60</td>
</tr>
<tr>
<td>Airflow rate (High) (CFM)</td>
<td>494 (840)</td>
<td>647 (1,100)</td>
</tr>
<tr>
<td>Airflow rate (Med) (CFM)</td>
<td>453 (770)</td>
<td>536 (910)</td>
</tr>
<tr>
<td>Airflow rate (Low) (CFM)</td>
<td>406 (690)</td>
<td>430 (730)</td>
</tr>
<tr>
<td>Sound pressure level (High) (dB)</td>
<td>41</td>
<td>48</td>
</tr>
<tr>
<td>Sound pressure level (Med) (dB)</td>
<td>39</td>
<td>43</td>
</tr>
<tr>
<td>Sound pressure level (Low) (dB)</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (in.) (mm)</td>
<td>12-5/8 × 39-5/16 × 9 (320 × 998 × 228)</td>
<td></td>
</tr>
<tr>
<td>Weight (lbs.) (kg)</td>
<td>33 (15)</td>
<td>33 (15)</td>
</tr>
<tr>
<td>Connection pipe diameter ( Liquid) (in.) (mm)</td>
<td>3/8 (9.52)</td>
<td>3/8 (9.52)</td>
</tr>
<tr>
<td>Connection pipe diameter (Gas) (in.) (mm)</td>
<td>5/8 (15.88)</td>
<td>5/8 (15.88)</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 95.0°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), Height difference: 0ft. (0 m) (Outdoor unit - Indoor unit).
Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

EASY MAINTENANCE
Improved drain pan design simplifies cleaning and maintenance.

DIMENSIONS
**Outdoor Air Unit**

AAUA48TLAV  
AAUA72TLAV  
AAUA96TLAV

The 100% Outdoor Air Unit efficiently processes the outdoor air in cooling or heating to supply outdoor air to improve Indoor Air Quality (IAQ) for ventilation.

**ONE VRF SYSTEM CAN PROVIDE AIR CONDITIONING AND AIR SUPPLY AT THE SAME TIME**

Outdoor Air Unit can be connected to the VRF outdoor condenser as an indoor unit conditioning fresh outdoor air to comfort levels. One VRF system can provide air conditioning and air supply at the same time.

**HOLD ENERGY SAVINGS AND FLEXIBLE DUCT DESIGN BY USING DC MOTOR**

- Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.
- With its built in DC motor, changes to static pressure from 0.20 to 0.96 in.WG is simplified using wired remote control.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model name</th>
<th>AAUA48TLAV</th>
<th>AAUA72TLAV</th>
<th>AAUA96TLAV</th>
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<tr>
<td>Power source</td>
<td>AC 1 Phase</td>
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<td>Capacity</td>
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<tr>
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**VARIABLE CONTROLLERS**

There are a variety of optional controllers, such as individual remote controls, central controllers and building management systems.

**TOP CLASS COMPACT DESIGN**

- Top class lightweight compact design at just 53-13/16 in. (425mm) in height, 123 lbs. (56kg) in weight for AAUA72TLAV type. This unit can be installed easily even in a narrow space.

**DIMENSIONS**

- Central Controller
- Remote Controls
- Simple Remote Control
- Wired Remote Control
- Touch Panel Controller
- System Controller System Controller Lite (Software)

* The temperature setting is discharged air temperature setting. (The air volume is set to a constant speed.)

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**NOTES**

- Outdoor Air Unit can be connected to the VRF outdoor condenser as an indoor unit conditioning fresh outdoor air to comfort levels. ONE VRF SYSTEM CAN PROVIDE AIR CONDITIONING AND AIR SUPPLY AT THE SAME TIME.

- **Outdoor Air Unit** is the 100% Outdoor Air Unit efficiently processes the outdoor air in cooling or heating to supply outdoor air to improve Indoor Air Quality (IAQ) for ventilation.

- **HOLD ENERGY SAVINGS AND FLEXIBLE DUCT DESIGN BY USING DC MOTOR**

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FUJITSU - VENTACITY Partnership

Fujitsu General America has partnered with Ventacity Systems to provide the first VRF - HRV/ERV solution that is powered by the Ventacity HVAC2® Smarter Building Platform. The Airstage VRF system provides a superior level of comfort with very high efficiencies and tight air exchange conditions. The Ventacity HVAC2® Smarter Building Platform can measure key indoor air quality parameters and outdoor parameters. It then regulates the amount of fresh air and its temperature that is being supplied to the building. The Ventacity HRV/ERV system, with its 85%-93% sensible recovery efficiency, minimizes the amount of energy required to condition the fresh air. This translates to huge energy savings for the building owner.

What does the Fujitsu-Ventacity solution bring?

IMPROVED COMFORT AND HEALTH IN BUILDINGS

When the Ventacity HRV/ERV system is connected to optional sensors, it will optimize ventilation, providing just the right amount of fresh air when and where needed for maximum health and comfort. The combination of zoned heating and cooling from Airstage systems with fresh air from Ventacity's HRV/ERV systems provides a healthy environment for building occupants, translating into higher building value.

CLOUD-BASED SYSTEM MANAGEMENT

System monitoring and control decisions can be made both locally at a building’s lifecycle.

HIGH EFFICIENCY

The Airstage VRF system - which includes a variety of Building Management System controls - combined with a Ventacity HRV/ERV system makes an intelligent, ultra-efficient solution for buildings, offering tremendous Energy Use Intensity (EUI) reductions and savings in the building's annual energy use per unit area.

VC100 SMARTER BUILDING CONTROLLER

The VC100 Smart Building Controller offers significant savings by providing the best, most feature rich VRF central controller at a competitive cost. Compared to other HVAC control systems, the VC100 requires fewer components and much less integration time. The VC100 connects a variety of devices to the HVAC2® Smarter Building Platform over a secure network via LTE or Ethernet, and uses a cloud-based user interface, which is available from any Internet connected device. This offers immediate access to critical information to monitor energy efficiency and lower operating costs throughout a building’s lifecycle.

PLUG AND PLAY HVAC SYSTEM

Upon installation, Airstage VRF systems are automatically detected and added to the secure Ventacity HVAC2® Smarter Building Platform network, dramatically reducing installation and system integration time and expense.

<table>
<thead>
<tr>
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Ductless

The VSS005U is a ductless HRV/ERV for decentralized applications. The VSS005U optimizes for energy efficiency and healthy indoor air quality, while offering ultra-quiet operation and no drafts. Top Applications: Classrooms, offices and conference rooms.

VENTILATOR

VS-CM Series HRVs & ERVs for installation above drop ceilings. Operates at much higher energy efficiency (up to 93%) which saves much more energy and significantly lowers operating costs. 4 capacities to choose from.

PASSIVE HOUSE CERTIFIED

The VS1000RT is the first Passive House, Ul, CSA Certified counterflow heat recovery ventilation (HRV) product in North America.
## Smarter Building Controller

### SBC100

The SBC100 Smarter Building Controller is a state of the art building management system that integrates heating, ventilation, and air-conditioning (HVAC) equipment and controls. Pre-configured equipment including Fujitsu’s Airstage VRF connect to the HVAC Smarter Building Platform over a secure network via LTE or Ethernet, and uses a cloud-based user interface, which is available from any Internet connected device. This offers immediate access to critical information to monitor energy efficiency and lower operating costs throughout a building’s life-cycle.

### THE CLOUD EXPERIENCE IS CUSTOMIZED FOR THE SPECIFIC ROLE OF THE USER:

- **Owners**
- **Occupants**
- **Property Managers**
- **HVAC Contractors**

### PLUG AND PLAY

- Simple configuration and integration.
- Pre-Programmed and ready for compatible field equipment.

### BUILDING MANAGEMENT SYSTEM

- Suitable for a single building or a portfolio of buildings.
- BACnet ready and open to other HVAC systems.

### AIRSTAGE INTEGRATION USING SMARTER BUILDING CONTROLLER

#### REMOTE CONNECTIVITY

- Mobile access over a secure internet connection.
- User interface with a simple layout provides critical building information.
- Optimum system performance is achieved with remote service tool monitoring, providing a good understanding of a potential issue minimizing downtime.
- Remotely examine full diagnostic data and error codes from the VRF to pinpoint the cause of an issue. All data are stored permanently in our secure cloud.
- Remote monitoring provides peace of mind, and when needed will reduce the total truck roles, benefitting the contractor, the building owner, the occupants, and the environment!
Touch Remote Control
(2-WIRE): UTY-RNRUZ2

Easy operation by high definition large STN-LCD touch screen
• Built-in temperature sensor
• Built-in weekly/Daily time (ON/OFF) (Occupied/Unoccupied), Temp.
• Backlight enables easy operation in a darkened room
• Room temperature display
• Administrator temperature set point limitation
• Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)

HIGH PERFORMANCE AND COMPACT SIZE
• In addition to the individual control, various energy saving controls can be realized using one remote controller only.

VARIOUS ENERGY SAVING SETTINGS
Auto Off Timer
• The indoor unit automatically turns off after a set time has passed.
• The time interval for which auto off works can be set.

Ex) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off

Set interval time hour (17:00 to 24:00)
Set off time (30 to 240 minutes)

2 schedules Weekly Timer
• 2 schedules such as for the summer and winter can be set.
• 8 setting changeable per day of week (Setting items: ON / OFF (Occupied/Unoccupied), Temperature, Time)

Optimum start function
• Provides configurable operation start (Boost) to get space to temperature before scheduled time.

Set Temperature Auto Return
• The set temperature automatically returns to the previous setting.
• The time range in which the set temperature can be changed is 10 to 120 minutes.

Set Temperature Upper and Lower Limit Setting
• The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)

Backlight
• Backlight enables easy operation in a dark room.
• Backlight display time of 30 or 60 seconds can be set.

REMOTE CONTROLS

COMMUNICATIONS
• Modbus TCP: Currently supported
• Modbus RTU: Currently supported
• BACnet: Coming soon

CONNECTOR TYPES / COUNT
• Barrel-type power connector: 1
• microSD: 1
• Ethernet: 2
• USB: 2
• Relay output connectors: 2
• Modbus RTU port: 1
• Switch closure input: 2
• Wi-Fi / Bluetooth antenna: 1
• GPS antenna: 1
• Cellular antenna: 1

FUNCTION / PURPOSE
• For power supply by plug
• Data storage
• WAN/LAN
• General purpose
• Connection point for devices under control
• General purpose
• Supports Wi-Fi A/B/G and Bluetooth 4.0
• Geo location
• Cellular LTE internet connection

UNIT SPECIFICATIONS
Model #: SBC100
Power Supply: 100 – 240 VAC / 1 ph / 50 – 60Hz
Power Wire: IEC connector with plug.
Dimensions (HxWxD): 13.5” x 11.3” x 7.2”
34.3cm x 28.7cm x 18.3cm
Weight: 7 lbs / 13.8 kg
Input Power: 17.6W
Operating Temp Range: 32 – 122°F / 0 – 50°C

DIMENSIONS

UNIT: IN (MM)

34.3cm x 28.7cm x 18.3cm

ACCURATE AND COMFORTABLE CONTROL
• Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.

BACKLIGHT
• Backlight enables easy operation in a dark room.
• Backlight display time of 30 or 60 seconds can be set.
Wired Remote Control

(3-WIRE) UTY-RNKU

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor.
• Simple operation with Built-in Weekly / Daily Timer.
• Control up to 16 indoor units.
• Up to 2 wired remote controls can be connected to a single indoor unit.

BUILT-IN TIMERS
A weekly timer with up to four different On/Off and temperature settings per day.

SIMPLE INSTALLATION
Designed for flush mount or usage of standard electric box.

Simple Remote Control

(2-WIRE) UTY-RSRY / UTY-RHRY (WITHOUT OPERATION MODE)
(3-WIRE) UTY-RSKU / UTY-RHKU (WITHOUT OPERATION MODE)

Compact wired remote control unit provides access to basic functions
• Built-in temperature sensor
• Backlight display
• Equipped with Remote control prohibition
• Suitable for hotels, classrooms or offices as it is easily operated with no complex functions.

ACCURATE AND COMFORTABLE
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.
• Simple operation with Built-in Weekly / Daily Timer.
• Control up to 16 indoor units.
• Up to 2 wired remote controls can be connected to a single indoor unit.

ACCUARATE AND COMFORTABLE
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.

ROOM TEMPERATURE SET POINT LIMITATION
The Simple Remote Control can manage set point limitation in small buildings without the central controller requirement.

VERTICAL LOUVER CONTROL
Offers vertical louver movement control for ducted and cassette units.

SPECIFICATIONS

UTY-RNKU
- Power Supply: DC 12V
- Dimensions: 4-3/4 x 4-3/4 x 18/16 (120 x 120 x 29.2)
- Weight: 6 (160)

UTY-RSKU
- Power Supply: DC 12V
- Dimensions: 4-3/4 x 2-7/8 x 15/16 (120 x 75 x 24.2)
- Weight: 4 (120)

UTY-RHKU
- Power Supply: DC 12V
- Dimensions: 4-3/4 x 2-7/8 x 15/16 (120 x 75 x 24.2)
- Weight: 4 (120)
Wireless Remote Control

**UTY-LNHU**

Simple and sophisticated operations with a choice of 4 daily timers
- A single controller controls up to 16 indoor units.

**ACCURATE AND COMFORTABLE**

Select from 4 different timer programs: On / Off / Program / Sleep
- Program timer: The program timer operates the ON and OFF timer once within a 24 hour period.
- Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

**EASY INSTALLATION AND OPERATION**

- Code selector switch prevents indoor unit mix-up. (Up to 4 codes can be set.)
- Wide and precise transmitting range.
- **Program timer:**
  - Select from 4 different timer programs:
  - **Sleep timer:**
    - The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.
    - The program timer operates the ON and OFF timer once within a 24 hour period.

**Wireless Remote Control**

**UTY-LNHU**

Necessary to control all duct types by Wireless Remote Control
- A single controller controls up to 16 indoor units.
- Simple and sophisticated operations with a choice of 4 daily timers

**Features**
- **Remote Control:**
  - Remote and wall mounted indoor units.
  - Remote Controller
  - Wireless Remote Control, thus eliminating manual switch setting.
  - During installation, address setting can be performed using the wireless remote control.

**COMPATIBILITY FOR WIRED WI-FI MODULE**

- **Remote Controls:**
  - The whole process.
  - For: Cassette, Ducted, Ceiling Mount, Floor/ Ceiling Mount (Universal), Wall Mounted, Floor Mount Units

**How Does It Work?**

- The indoor units are controlled from a webpage or using an iOS or Android app in a very intuitive way.
- Programs the indoor unit operation schedule.
- Offers early startup that brings the space to the desired setpoint before arriving.
- Also, offers delayed setback after leaving.
- Provides instant alarm notifications.
- Error reporting, available in several languages

**TECHNICAL FEATURES**

- Enclosure: ABS (UL 94 HB)
- Dimensions: 2-3/4 x 4-1/4 x 1-1/8 (70 x 108 x 28)
- Weight: 0.17 lbs (80g)
- Wall Mounting: Universal, Vertical Air Handler, Duct (ARUH), High Static Pressure Duct (ARUM), Medium Static Pressure Duct (ARUL), Slim Duct (ARUL)
- Power Supply: 12V, 55mA
- Operating Temperature: 32°F ~ 104°F (0°C ~ 40°C)
- Operating Humidity: <93% HR, no condensation
- LED Indicators: 1 x Device status
- Certifications:
  - EN 301489-17 v2.1.1
  - EN 301489-1 v1.8.1
  - EN 60950-1
  - EN 50561
  - RoHS conformity

**Wi-fi Interface Module**

**FJ-RC-WIFI-1NA**

UTY-TFSXZ2 (for 2-wire indoor units)

Remotely manage your VRF indoor unit using a smartphone, tablet or PC via the Internet.

**Features**
- Manages the VRF indoor unit using the iOS or Android app.
- Programs the indoor unit operation schedule.
- Offers access to several indoor unit settings including Mode, temperature set point, and much more.
- Offers early startup that brings the space to the desired setpoint before arriving.
- Also, offers delayed setback after leaving.
- Provides instant alarm notifications.
- Error reporting, available in several languages

**How Does It Work?**

- The indoor units are controlled from a webpage or using an iOS or Android app in a very intuitive way.
- Programs the indoor unit operation schedule.
- Offers early startup that brings the space to the desired setpoint before arriving.
- Also, offers delayed setback after leaving.
- Provides instant alarm notifications.
- Error reporting, available in several languages

**COMPATIBILITY FOR WIRED WI-FI MODULE**

- Control your Fujitsu Airstage VRF indoor unit from anywhere

**Remotely manage your VRF indoor unit using a smartphone, tablet or PC via the Internet.**
**Central Controllers**

**Touch Panel Controller with Internet**

**UTY-DTGYZ1**

High visibility and easy operation via high resolution 7.5 inch TFT-LCD touch panel screen
- Controls up to 400 indoor units*
- Provides Internet/LAN remote control and operation
- Indoor units can be grouped for batch monitoring and setting
- Schedules are programmable with up to 20 settings per day
- Easy-to-understand Graphical User Interface (GUI)
- Data can be transferred to USB for further analysis
- Does not require a 4Wx electric box. Mounts flush to the wall.
- Large-sized 7.5-inch no-glare TFT color touch screen
- Selectable 2 display types (Icon / List) in monitoring mode
- Supports 7 different languages: English, Chinese, French, German, Spanish, Russian, Polish.

**Functions**

- **Up to 400 indoor units can be controlled**
- **Multiple indoor units can be grouped and controlled**
- **Schedule timer function is standard (20 patterns per day)**
- **Emergency stop function (through the external input control)**
- **Temperature upper and lower limit setting**

**Remote Monitoring and Operation Functions**

- **Internet/LAN remote monitoring and control of the VRF system using a web browser.** (Operation status monitoring, Operation mode setting, and error history display)
- **Automatically emails errors.**

**Easy Operation**

- **Easy-to-understand icon-driven Graphical User Interface (GUI)**
- **Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon**
- **Up-to-date status display**
- **Background color identifies current control operation; Blue for monitoring, green for operational control**

**Easy Maintainance**

- **Flat touch screen is easily cleaned**
- **Non-glare coating on touch panel controller minimizes fingerprint marking**
- **Easy-to-remove front cover**

**Versatility**

- **Emergency stop function:** Air conditioner can be turned off through the external input control
- **The stored data can be transferred to USB port**
- **CSV format data edited by PC can be imported to Touch Panel Controller.**

**Easy Installation**

- **Touch Panel Controller does not require mounting an additional power supply.**
- **No additional components are required for installation.**

**Automatic Clock Adjustment**

The time setting of each remote control can be set in batch automatically.

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-DTGYZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>VRV, 120V-240VAC, Single phase</td>
</tr>
<tr>
<td>Dimensions (W x H x D) (in (mm))</td>
<td>16.0 x 9.39 x 10.39</td>
</tr>
<tr>
<td>Weight (lbs (g))</td>
<td>5 (2150)</td>
</tr>
<tr>
<td>Interface</td>
<td>Transmission: RS-485/USB (EX/XT) / Ethernet SW</td>
</tr>
</tbody>
</table>
Central Remote Controller

**UTY-DCGY21**

For small- and medium-sized buildings and tenants

- Individual control and monitor of 100 indoor units and max. 50 groups
- 7.0 inch TFT color screen
- High visibility and easy operation
- Supports max. 23 different languages
- Standard language corresponds to 12 different languages. (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)
- Additional language can be integrated by creative language database. *(Bulgarian, Czech, Danish, Estonian, Finnish, Croatian, Hungarian, Romanian, Slovak, Slovenian, Swedish)*
- The other language can be overwritten on the registered one.

**EASY OPERATION**

- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top screen and the following operations are displayed at pop-up window.

**TROUBLE SUPPORT FUNCTION**

- Display error details
- Display descriptive explanation when an error occurs
- Sensor value monitoring function
- Notify by e-mail when the temperature around the air conditioner is too high or too low

**REMOTE MONITORING / REMOTE OPERATION**

New central remote controller can control your tenant’s air conditioner anytime and anywhere.

- Control / Monitoring Fujitsu air conditioner
- Example:
  - Control / Monitoring Fujitsu air conditioner
  - Error notification by E-mail

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>UTY-DCGY21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>DC 5V, 100-240V, 50-60Hz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5 9/16 × 8 11/16 × 1 (144.4 × 216.1 × 37.5)</td>
</tr>
<tr>
<td>Weight</td>
<td>1-21/32 (750)</td>
</tr>
</tbody>
</table>

---

Central Controller

**UTY-DCGY**

Central Controller fits small- and medium-sized buildings and tenants.

- Individual control and monitor of up to 100 indoor units
- 5 inch TFT color screen
- User friendly view and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.

**SYSTEM OVERVIEW**

- It allows multiple indoor units grouping (Max. 16 groups controlled)
- Interlock with external device

**EASY INSTALLATION**

- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the control panel can be built into the wall or flush mounted.

**FUNCTIONS**

- Diverse control of indoor units
- Weekly timer
- Automatic clock adjustment
- Error history

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Control Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC 5V, 100-240V, 50-60Hz</td>
<td>5 9/16 × 8 11/16 × 1 (144.4 × 216.1 × 37.5)</td>
</tr>
<tr>
<td>Weight</td>
<td>1-21/32 (750)</td>
</tr>
</tbody>
</table>

- Packing list:
  - Control Panel / Power supply unit / Connecting cable, etc.
System Controller

UTY-APGXZ1  Software

System Controller provides the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.

System Controller Lite

UTY-ALGXZ1  Software

System Controller Lite is designed for small and medium scale buildings.

- Controls up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units.
- In addition to air conditioning precision control function, a variety of management software add-ons are available as options to give customers a wide range of choice.

USER FRIENDLY VIEW AND OPERATION

- **Click & Operate**: The building can be viewed and controlled in a 3D click-able perspective view. Four different views are available: site, building, floor, or list view.

DIVERSE OPERATION MANAGEMENT & DATA MANAGEMENT

3RD PARTY DEVICES CONNECTED BY MODBUS CAN BE CONTROLLED

When Modbus Adaptor (locally purchased) is connected to system controller PC, the devices connected to the Modbus can be centrally controlled.

- Annual schedules can be set for each remote control group / user defined group.
- Start / stop, operating mode, remote control prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.

Diverse control of indoor unit

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation

Remote control prohibition

This prohibits changes to the operation mode, temperature, start/stop, etc.

Automatic clock adjustment

The time setting of each controller can be set in batch automatically.

ELECTRICITY CHARGE APPORTIONMENT

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With Electricity Charge Apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)

The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.
System Controller and System Controller Light (continued) 

REMOTE MANAGEMENT

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 software programs working together. VRF Controller runs on site and communicates with VRF system. VRF Explorer runs remotely and provides user interface and communicates with the VRF Controller. VRF Controller and VRF Explorer programs may run on a single PC or on different PCs. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

On site central control
Max. 4 VRF network systems per site

ENERGY SAVING MANAGEMENT

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.

ENERGY SAVING GRAPH

This graph compares the electricity consumption with the previous year to make it easy to analyze the energy saving effect.

PEAK CUT OPERATION

To control power consumption and load shedding, the system can be programmed to change the indoor unit set temperature, turn the indoor unit thermostat off, or take other measures to carefully control the amount of power consumed while maintaining comfort.

OUTDOOR UNIT CAPACITY SAFE

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.
**Network Convertor**

**UTY-VTGX (DC power supply)**
**UTY-VGGXZ1 (AC power supply)**

Network Convertors add Fujitsu mini-split control to the VRF communication network.

**INSTALLATION EXAMPLE**
- The convertors are required when connecting single split units to the VRF communication network system. Administrators can manage the VRF system including single split by way of VRF central controller.

**Single split with VRF**

---

**Signal Amplifier**

**UTY-VSGXZ1**

- Transmission Line length can be extended up to 11,811ft. (3,600m) with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a single VRF communication network system.
- A signal amplifier is required, (1) When the total wiring length of the transmission line exceeds 1,640ft. (500m).
- (2) When the total number of units on the transmission line exceeds 64.

**INSTALLATION EXAMPLE**

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-VSGXZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>DC6.5 - 16V</td>
</tr>
<tr>
<td>Dimensions (H x W x D) (in.(mm))</td>
<td>1-11/16 × 5-1/2 × 4-5/8 (43 × 140 × 117)</td>
</tr>
<tr>
<td>Weight (lbs.oz.)(g)</td>
<td>3lbs. (1,500)</td>
</tr>
</tbody>
</table>

---

**External Switch Controller**

**UTY-TERX**

Air conditioner switching can be controlled by connecting other sensor switches

- In combination with a field supply Card Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a field supplied parts.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-TERX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>DC6.5 - 16V</td>
</tr>
<tr>
<td>Dimensions (H x W x D) (in.(mm))</td>
<td>1-11/16 × 5-1/2 × 4-5/8 (43 × 140 × 117)</td>
</tr>
<tr>
<td>Weight (lbs.oz.)(g)</td>
<td>3lbs. (1,500)</td>
</tr>
</tbody>
</table>

---

**FUNCTIONS**

<table>
<thead>
<tr>
<th>Function</th>
<th>On/Off</th>
<th>Fan speed setting</th>
<th>Off</th>
<th>Operation mode setting</th>
<th>Room temperature setting</th>
<th>Prohibition setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch 1</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**SYSTEM OVERVIEW**

- Air conditioner switching can be controlled by connecting other sensor switches.
- Card-key or other sensor switches are available as a field supplied parts.
- In combination with a field supply Card Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a field supplied parts.

---

VRF System

- Air conditioner switching can be controlled by connecting other sensor switches.
- Card-key or other sensor switches are available as a field supplied parts.
- In combination with a field supply Card Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a field supplied parts.
Highrise 360 Kit (for V-II Series*)

UTY-SPWX

**DESIGN FLEXIBILITY**

The Highrise 360 kit increases the 164ft height difference on V-II Series between the outdoor unit and furthest indoor unit to 360Ft. This kit improves the height when the outdoor units are installed above the indoor units only.

**SYSTEM OVERVIEW**

- **Height difference 360ft max. (110m)**
- **Actual pipe length**: 295ft max. (90m)
- **Joint pipe**: 164ft max. (50m)
- **Pressure sensor**
- **Refrigerant piping**
- **32ft or less (10m)**

**HIGHRISE 360 KIT COMPONENTS**

- **Pressure sensor kit** 
  (Converter)
- **Refrigerant pressure sensor**
- **Joint pipe**

**TOTAL PIPE LENGTH**

- **3,280ft max. (1,000m)**

**ACCESSORIES**

**BMS COMMUNICATION OPTIONS**

**BACnet® Gateway (Hardware)**

UTY-VBGX

- **BACnet® Gateway connects a VRF system to a BMS via BACnet® IP.**
- **A maximum of 128 indoor units and 32 refrigerant systems can be connected to a single BACnet® Gateway.**
- **Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controllers (B-ASC).**
- **Compatible with BACnet®IP over Ethernet.**

**INSTALLATION EXAMPLE**

- **Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer must be connected to a single BACnet® Gateway.**
- **Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.**
- **Compatible with BACnet®/IP over Ethernet.**

**PERSONAL COMPUTER SYSTEM REQUIREMENTS**

- **Model name**: UTY-ABGXZ1
- **Operating system**:
  - Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)
- **Supported languages**: English, Chinese, French, German, Russian, Spanish, and Polish
- **CPU**: Intel® Core™ i3 2 GHz or higher
- **Memory**: 2 GB or more (for Windows® 7 [32-bit])
- **HDD**: 40 GB or more of free space
- **Display**: 1024 x 768 or higher resolution
- **Software**: Adobe® Reader® 9.0 or later
- **Language Setting**: English, Chinese, French, German, Spanish, Russian, Polish

**SPECIFICATIONS**

- **BACnet® Gateway (Hardware)**
  - **Model name**: UTY-VBGX
  - **Input power**: 4 W
  - **Power supply**: 208-240V 50/60Hz, single phase
  - **Weight**: 39oz (6100)
  - **Dimensions**: 10-1/4 × 2-5/16 × 5-11/16 (260 × 59 × 145)
  - **Optical drive**: DVD-ROM drive
  - **Software**: Adobe® Reader® 9.0 or later
  - **Input power**: 4 W
  - **Power supply**: 208-240V 50/60Hz, single phase
  - **Weight**: 39oz (6100)
  - **Dimensions**: 10-1/4 × 2-5/16 × 5-11/16 (260 × 59 × 145)
  - **Optical drive**: DVD-ROM drive

**Software**

- **Model name**: UTY-VBGX
- **Interface**:
  - **BACnet® Gateway**: 1 USB port
  - **Workstation (B-OWS)**: 1 USB port
  - **Lighting facilities**: 1 USB port
  - **Security system**: 1 USB port
  - **Window blind**: 1 USB port
  - **Controller**: 1 USB port

*NOTE: This product can be used on new V-II series only. For outdoor units with manufacturing dates before January 2018, a software upgrade can be requested. Please contact Fujitsu technical support for details.
Network Convertor for LONWORKS®

**UTY-VLGX**
- Connects VRF network system to a BMS network via LONWORKS® open network.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.
- Up to 128 Indoor units can be connected to one Network Convertor for LONWORKS®

**INSTALLATION EXAMPLE**
- Up to 128 Indoor units can be connected to one Network Convertor for LONWORKS®
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® open network.

**SPECIFICATIONS**
- Model: UTY-VLGX
- Power Supply: 208-240V / 50Hz, Single phase
- Input power (W): Max. 3
- Dimensions (H x W x D): 2-1/8 x 4-1/2 x 3-1/2 (57 x 114 x 94)
- Weight (lbs.): 3lbs. (1,500)

**MODBUS® Converter**

**UTY-VMGX**
**UTY-VMGU-KIT**
VRF System can be integrated with the Building management system supported by MODBUS® RTU.

**INSTALLATION EXAMPLE**
- Maximum of 9 units MODBUS® Convertor
- Max. 128 Indoor units & Max. 100 Outdoor units to one BMS

**SPECIFICATIONS**
- Model: UTY-VMGX
- Power Supply: 220-240V / 50Hz, Single phase
- Input power (W): Max. 4.5
- Dimensions (H x W x D): 2-5/8 x 11-5/16 x 8-5/16 (67 x 288 x 211)
- Input power (W): 4.5
- Power Supply: 208-240V / 50Hz, Single phase
- Operating system: Windows® 7 Pro (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)
- Operating system: Windows® 7 Pro (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)
- Operating system: Windows® 7 Pro (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)
- Operating system: Windows® 7 Pro (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)
- Operating system: Windows® 7 Pro (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)

**SERVICE & MONITORING**

**Software**
- UTY-ASGXZ1 Service Tool
- UTY-VMGXZ1 Service Tool

**PERSONAL COMPUTER SYSTEM REQUIREMENTS**
- Operating system: Windows® 7 Pro (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)
- CPU: 1 GHz or higher
- Memory: 1 GB or more (for Windows® Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])
- Hard drive: 40 GB or more of free space
- Display: 1280 x 1024 or higher resolution
- Interface: USB 1.1 or higher
- Software: Microsoft® Windows® 7 Pro (32-bit or 64-bit)

**MULTIPLE TREND GRAPH DISPLAY AND COMPARISON**
- Multiple graphs can be displayed in Service Tool depending on the situation.
- Up to two offline data files can be viewed and compared simultaneously.
FUNCTIONS

1) System List
Displays the overall operation status of all or specified units in the system in a list form.

2) Equipment Detail (Diagram)
Displays the detail information for sensor values, electrical components etc. for the specified units in schematic. The information here can be used along with the detail information in diagram form, to check the operation status of units and make detail analysis on the cause, in case an error occurs.

3) Equipment Detail (List)
Displays the detail information for sensor values, electrical components etc. of units in a specified refrigerant system in list form. The information here can be used along with the detail information in diagram form, to check the operation status of units and make detail analysis on the cause, in case an error occurs.

4) Operation History
The indoor units or outdoor unit operation history can be recorded. The displayed operation history can be printed out and saved to a CSV file.

5) Error History
Displays the error information for each unit. The error information can sequentially be displayed up to 50 items as they occur starting with the latest error.

6) Remote File Download
Operation and error history can be downloaded. User can choose which data to download by specifying the system, unit and time frame.

7) Commissioning Tool
A custom model name can be given for an indoor unit.

8) Network Topology Analyzer
A list of units connected to the VRF system network is displayed in network segments in tree form.

9) Remote Setting
Setting of the indoor unit can be performed remotely.

10) System Time Setting
Time of day setting, for all controllers in a system, can be performed simultaneously.

11) Software Version
The software version of units are acquired and displayed.

12) Central Release
Limitations on individual indoor units can be released from the central controller (remote controller limit, temperature limit).

13) Model Name Writer
A custom model name can be given for an indoor unit.

14) Error Memory Reader
When an error occurs in an indoor unit, the system records the operation data before the error and saves to a CSV file. Note: To perform “Error Memory Reading”, the Service Tool must be connected directly to the corresponding outdoor unit. Refer to the Operation Manual of the Service Tool for detail.

15) Time Guard Information
Data for determining maintenance schedule (integrated time for compressor, fan, etc.) for the indoor and outdoor units can be output to a CSV file.

WEB MONITORING SYSTEM

Web Monitoring Tool
 UTY-AMGXZ1 Software

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet.
- Requires a dedicated internet connection.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data can be downloaded and displayed offline in the service tool.
- No special software needed to view data remotely, requires only general web browser.

PERSONAL COMPUTER SYSTEM REQUIREMENTS

- Operating system: Microsoft® Windows® 10 Pro (32-bit or 64-bit)
- Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)
- Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1
- Internet using LAN: Ethernet port is required
- Either of the following interface is required for remote connection:
  - USB port (for 10 USB Network Interface Max.4, Software protection key)
  - 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
- USB adapter:
  - Internet using LAN: Ethernet port is required

Note: These products runs only on a PC with WibuKey.

USB adaptors per PC permit, monitoring of up to 1,600 indoor units. Suitable for large-scale buildings or hotels.

WEB MONITORING SYSTEM

USB Monitoring System Side

- Web Monitoring Tool
- USB adapter

Indoor unit

MONITORING SIDE

Indoor unit

VRF Network System Side

Indoor unit

USB adapter

Personal computer that satisfies the following system requirements

- Internet using LAN: Ethernet port is required
- USB port (for 10 USB Network Interface Max.4, Software protection key)
- Either of the following interface is required for remote connection:
  - USB port
  - 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
- Personal computer that satisfies the following requirements:
  - Windows® 10 USB Network Interface - 1001-01291 (Model number: 750108) (Required for each VRF Network).
Design Simulator

**EASY EQUIPMENT SELECTION, COMPLETE SELECTION OUTPUT, RELIABLE PROJECT MANAGEMENT**

Design Simulator makes it easy to design and select equipment for complex building HVAC systems. The software output contains all important design data including: Equipment Schedule, Piping and Wiring Layout, etc. (all of the documentation needed to estimate a project.) Design Simulator simplifies the design process. To design a system, just select the indoor unit types for each system, and the software will automatically select the outdoor unit and create the piping and wiring diagram. Design Simulator also checks all of the equipment information to ensure proper installation.

**Step 1** Select the model
Choose the model for each system.

**Step 2** Select the Indoor Unit
Select the Indoor Unit
Choose the unit types and the conditions and the software will select the correct indoor unit. Indoor unit can also be selected manually.

**Step 2b** Select the Outdoor Air Unit
If desired, choose the "Outside Air Unit" option. Outside Air Units are selected based on required airflow.

**Step 3** Select the Outdoor Unit
Using the Drag & Drop function, connect the indoor unit to the appropriate outdoor unit.

**Step 4** Piping Length / Piping Diagram
Piping diagram is created automatically. As piping lengths are entered, system automatically calculates refrigerant charge.

**Step 5** Wiring / Remote Control Diagram
Automatically creates the wiring diagram. Simple grouping functions create a custom wiring diagram for the project.

**Step 6** Select BMS Gateways and Central Controllers
Choose additional devices to meet the needs of the project.

**Step 7** Report Output
Design Simulator creates a project output with all of the project schedules and schematic drawings.

**Building Information Modeling (BIM)**

Fujitsu provides the Building Information Modeling (BIM) object models and contents for our VRF system to the architect, designer and contractor using Autodesk® Revit® technology.

**SOFTWARE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Software</th>
<th>Design Simulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Microsoft Windows Vista / 7 / 8</td>
</tr>
<tr>
<td>System Requirements</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>Intel® Core™ i3 Processor 2GHz or higher</td>
</tr>
<tr>
<td>Memory</td>
<td>2GB or more (Windows® XP, Windows Vista®, Windows® 7 32-bit)</td>
</tr>
<tr>
<td>4GB or more (Windows® 7 64-bit), HDD: 10GB or more of free space</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>Internet Explorer 7.0 or later</td>
</tr>
<tr>
<td>Software</td>
<td>Acrobat Reader 9.0 or later</td>
</tr>
<tr>
<td>Latest information is transmitted via User side (PC) FTP server side (PC)</td>
<td></td>
</tr>
<tr>
<td>• Word format</td>
<td>• Excel format</td>
</tr>
<tr>
<td>• 2D Data</td>
<td>• 3D Data (RevitMep data)</td>
</tr>
<tr>
<td>• Wiring and piping schematic drawings</td>
<td></td>
</tr>
<tr>
<td>Software updates automatically with the latest product data.</td>
<td></td>
</tr>
<tr>
<td>• Maintains software integrity</td>
<td></td>
</tr>
<tr>
<td>• Updates product information</td>
<td></td>
</tr>
<tr>
<td>• Maintains software history</td>
<td></td>
</tr>
</tbody>
</table>

**REQUIRED SOFTWARE**

- Autodesk® Revit® series software
- Autodesk® Revit® Architecture
- Autodesk® Revit® MEP
- Autodesk® Revit® Structure

**Data format**

- IFA

**DESIGN TOOLS**

<table>
<thead>
<tr>
<th>DESIGN TOOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product parameter</strong></td>
</tr>
<tr>
<td><strong>Power source</strong></td>
</tr>
<tr>
<td><strong>Input power</strong></td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
</tr>
<tr>
<td><strong>Airflow rate</strong></td>
</tr>
<tr>
<td><strong>Sound pressure level</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Connection pipe diameter</strong></td>
</tr>
<tr>
<td><strong>Refrigerant</strong></td>
</tr>
<tr>
<td><strong>Material/Color</strong></td>
</tr>
</tbody>
</table>
Cypetherm Fujitsu with EnergyPlus™

Intuitive Airstage Energy Modeling

This software allows you to model and simulate HVAC energy demand and consumption in the building with Airstage and compare with other commonly used HVAC equipment. Estimate potential energy savings and ROI values.

EASY MODELING

- Easy Wizard for Modeling
- 200 plus US cities included for weather data
- Default values selected based on building types

SIMPLE REPORTS

- Simple Energy Demand/Consumption reports
- Comparison with existing HVAC system
- ROI, NCV number

Energy demand

Airstage Project Manager (APM)

For Distributors and Reps

APPLIES TECHNOLOGY TO SIMPLIFY PROJECT MANAGEMENT AND ENSURE A SUCCESSFUL VRF INSTALLATION.

- Central Project Host for Sales Team
- Track all project status
- Upload project files and equipment list
- Automated quotes and Submittal packages creation
- Get price support and place orders
- Upload Commissioning documents
- Print Extended Warranty

THE APM INTEGRATES WITH THE DESIGN SIMULATOR

- Project users can generate Engineering Submittal Packages using only a few mouse clicks.
- Users can use this integration to create numerous customizable quotes.
- Purchasing can be easily managed through the quoting system.
# Piping Accessories

## SEPARATION TUBES

<table>
<thead>
<tr>
<th>Model name</th>
<th>Model name</th>
<th>Total cooling capacity of indoor unit (Q) (kBTUh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTP-AX054A</td>
<td>UTP-BX090A</td>
<td>X &lt; 66.5</td>
</tr>
<tr>
<td>UTP-AX090A</td>
<td>UTP-BX180A</td>
<td>66.5 &lt; X &lt; 96.5</td>
</tr>
<tr>
<td>UTP-AX180A</td>
<td>UTP-BX567A</td>
<td>X &gt; 193</td>
</tr>
</tbody>
</table>

## SPECIFICATIONS

### Separation Tube

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTP-BX060A</th>
<th>UTP-BX090A</th>
<th>UTP-BX180A</th>
<th>UTP-BX567A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total cooling capacity of indoor unit (Q) (kBTUh)</td>
<td>X &lt; 96.5</td>
<td>96.5 &lt; X &lt; 193</td>
<td>X &gt; 193</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTP-J0906A</th>
<th>UTP-J0908A</th>
<th>UTP-J1806A</th>
<th>UTP-J1808A</th>
</tr>
</thead>
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<td>Total cooling capacity of indoor unit (Q) (kBTUh)</td>
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<td>96.5 &lt; X &lt; 193</td>
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### Outdoor Unit Branch Kit

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<thead>
<tr>
<th>Model name</th>
<th>UTP-CX567A</th>
<th>UTP-DX567A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Pipe</td>
<td>Liquid Pipe</td>
<td></td>
</tr>
<tr>
<td>Suction Gas Pipe</td>
<td>Discharge Gas Pipe</td>
<td></td>
</tr>
<tr>
<td>Liquid Pipe</td>
<td>Liquid Pipe</td>
<td></td>
</tr>
</tbody>
</table>

### SPECIFICATIONS

#### Outdoor Unit Branch Kit

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTP-CX567A (for X-B)</th>
<th>UTP-DX567A (for KR-B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Outdoor unit</td>
<td>2 indoor units</td>
<td>3 indoor units</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model name</th>
<th>RU01AH</th>
<th>RU01BH</th>
<th>RU01CH</th>
<th>RU04BH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>Single phase 200V, 50Hz</td>
<td>Single phase 200V, 50Hz</td>
<td>Single phase 200V, 50Hz</td>
<td>Single phase 200V, 50Hz</td>
</tr>
<tr>
<td>Number of branches</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Maximum capacity of connectable indoor units (Q)</td>
<td>28</td>
<td>28</td>
<td>41</td>
<td>110</td>
</tr>
<tr>
<td>Maximum capacity of connectable indoor units per branch (Q)</td>
<td>28</td>
<td>28</td>
<td>41</td>
<td>110</td>
</tr>
<tr>
<td>Maximum number of connectable indoor units per branch</td>
<td>3</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Dimensions (H×W×D) (mm)</td>
<td>7-13/16 × 11-3/4 × 10-9/16 (198 × 298 × 268)</td>
<td>10-1/4 × 25-7/8 × 16-7/8 (260 × 658 × 428)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* NOTICE: In case of two RB units connected in series, the maximum capacity of connectable indoor units is up to 396 kBTUh.
Optional Parts Overview

**Optional Parts for Cassette**

- **Human Sensor Kit**
  The room temperature can be controlled by detecting the temperature accurately from the built-in sensor.

- **Cassette Grille**
  Cassette grille lineup matching the various interior is available. In addition, grid ceiling type cassette grille is also added to the lineup.

- **Fresh Air Intake Kit**
  Fresh air can be taken in by a fan which can be connected using external control unit.

- **Insulation for High Humidity**
  Insulation for High Humidity is used when the installation location is in the high humidity environment.

- **Air Outlet Shutter Plate**
  According to the installation site, the number of outlet directions can be changed to 3 directions by Air Outlet Shutter Plate.

- **Wide Panel**
  When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide Panel.

- **Panel Spacer**
  When the space above the ceiling is low and the main body is projected out of the ceiling surface, Panel Spacer can be used as decoration.

**Optional Parts for Floor**

- **Half Concealed Kit**
  This kit is used to half conceal floor type indoor unit into the wall.

**Optional Parts for Duct & Ceiling**

- **Auto Louver Grille Kit**
  Simple flat Auto louver will provide comfort airflow and harmonize with luxury Interior

- **Remote Sensor Unit**
  New amenity space can be offered by installing the Remote sensor.

- **Long Life Filter**
  Grit and dust can be caught sufficiently. In consideration of running cost, long-life design is achieved.

- **Flange**
  Flange is used for Medium Static Pressure Duct type and Ceiling type to connect between pipes.

- **Drain Pump Unit**
  This device can drain the collected water during operation.

**External Connect Kit & Set**

These wires can connect between the product PCB and external device.

**Connection Units**

Connection units are provided to separate the pipes at the connection of multiple indoor units in Multi type or VRF system.

**VRF Communication Cable**

For VRF Communication
LowWorks® Cable
K00250LW
K00500LW
Resources

AIRSTAGE WEBSITE (for building owners)
www.fujitsugeneral.com

A place to learn the basics

Go to the Commercial portion of our web site to learn more about Fujitsu’s Airstage VRF products and programs such as:

- Basic Product Overview
- Specifications & Downloads
- Service & Support
- Locate a Contractor or Distributor
- Contact Us
- Case Studies

AIRSTAGE PORTAL (for Engineers and Contractors)
https://portal.fujitsugeneral.com

The Airstage Portal provides a single source for all information for Fujitsu Airstage VRF Systems. From the Airstage Portal, all registered users have access to a wealth of information including manuals, technical information, diagrams, online training and more.

Who has access to the Portal?

- Engineers
- Contractors
- Fujitsu Distributors/Personnel
- Independent Airstage Sales Reps

To create a Portal account, go to: https://portal.fujitsugeneral.com

WHAT'S ON THE PORTAL?

- Basic Product Overview
- Specification & Downloads
- Service & Support
- Locate a Contractor or Distributor
- Case Studies

AIRSTAGE PROJECT MANAGER (APM)
on the Fujitsu Portal (for Reps and Distributors)

- Manage your Fujitsu Airstage projects large and small.
- Create a project and track its progress from the design stage, to quote generation, order processing and delivery tracking to submittal and commissioning.
- Import equipment schedules from the Fujitsu Design Simulator as well as piping and wiring diagrams.
- Request and manage job pricing.

AIRSTAGE PORTAL (for Engineers and Contractors)
https://portal.fujitsugeneral.com

A central place for project stakeholders to coordinate

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Tools for Engineers and Contractors

- Access to literature online
- Access to all manuals
- Download Design Simulator

Technical Information

- Troubleshooting Guides
- Instructional Videos
- Frequently Asked Questions

Training

- Designing Airstage Systems
- Reinforce Information covered in on-site training classes
- Learn about new and advanced Airstage features

Parts

- Parts Identification Diagrams

Maintain Projects

- Upload Design Simulator files
- Track project status

Submittals & Closeout Documentation

- Automatically generate submittals & closeout documents
- Commissioning Report and closeout documents are archived for future reference

Warranty & Commissioning

- Process warranty claims
- Submit Commissioning Report
- Print Extended Warranty Certificate

Auto Louver Grille Kit (Option)

Models
- UTD-GXSA-W / UTD-GXTA-W
- UTD-GXSB-W

Available for Mini and Slim Ducted Indoor Units (page 34)

Flexible Control

- Operation with indoor unit: Auto Louver can be controlled by remote controller of indoor unit.
- UP and Down auto swing
- Fixed airflow or auto swing
- 4 angle settings
- Auto-closing louver

When operation of indoor unit is stopped, the louver will automatically close.

Features

- Wiring Remote Controller
- Wireless Remote Controller
- Auto Louver Grille

Dimensions

<table>
<thead>
<tr>
<th>Model Name</th>
<th>W1</th>
<th>W2</th>
<th>H1</th>
<th>H2</th>
<th>D1</th>
<th>D2</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTD-GXSB-W</td>
<td>34-3/4</td>
<td>33-1/4</td>
<td>7-1/16</td>
<td>5-13/16</td>
<td>3/8</td>
<td>3-5/16</td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>120V (110V-130V)</td>
</tr>
<tr>
<td>Wiring</td>
<td>3-wire, 15A (10A for UTD-GXSA-W)</td>
</tr>
<tr>
<td>Net Dimension</td>
<td>(H x W x D)</td>
</tr>
<tr>
<td>Weight</td>
<td>Net lb. (kg)</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Operation Range</td>
<td>Cooling °F (°C) 64 to 90 (18 to 32) % RH 80% or less Heating °F (°C) 50 to 86 (10 to 30)</td>
</tr>
<tr>
<td>Closed louver</td>
<td>Opened louver</td>
</tr>
</tbody>
</table>

Model Name
- UTD-GXSA-W / UTD-GXTA-W
- UTD-GXSB-W

Applicable Indoor Unit
- UTD-GXSA-W: ARUL7/9/12/14TLAV | UTD-GXTA-W: ARUL4TLAV1, ARUL18TLAV

Power Supply Connecting with Control box of Indoor unit

Fixing of Auto Louver Grille

- Mounting to Flange or Square Duct
- 2-Wire (3-Wire for UTD-GXSB-W) x 4

Net Dimension

<table>
<thead>
<tr>
<th>W1</th>
<th>W2</th>
<th>H1</th>
<th>H2</th>
<th>D1</th>
<th>D2</th>
</tr>
</thead>
<tbody>
<tr>
<td>26-7/8</td>
<td>25-3/8</td>
<td>7-1/16</td>
<td>5-13/16</td>
<td>3/8</td>
<td>3-5/16</td>
</tr>
<tr>
<td>34-3/4</td>
<td>33-1/4</td>
<td>7-1/16</td>
<td>5-13/6</td>
<td>3/8</td>
<td>3-5/16</td>
</tr>
</tbody>
</table>

Weight

<table>
<thead>
<tr>
<th>Net lb.</th>
<th>(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.4</td>
<td>(2.0)</td>
</tr>
<tr>
<td>5.6</td>
<td>(2.5)</td>
</tr>
</tbody>
</table>

Gross Weight

<table>
<thead>
<tr>
<th>Net lb.</th>
<th>(kg)</th>
</tr>
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<tbody>
<tr>
<td>6.7</td>
<td>(3.0)</td>
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</tbody>
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Auto Louver Grille Kit (Option)

- Available for Mini and Slim Ducted Indoor Units (page 34)

Flexible Control

- Operation with indoor unit: Auto Louver can be controlled by remote controller of indoor unit.
- UP and Down auto swing
- Fixed airflow or auto swing
- 4 angle settings
- Auto-closing louver

When operation of indoor unit is stopped, the louver will automatically close.

Features

- Wiring Remote Controller
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Dimensions

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Applications

There are many applications for Airstage VRF systems including such markets as education, healthcare, hospitality, utilities, office buildings, apartment buildings, condominiums, and restaurants.

Note: VRF Heat Recovery system provides simultaneous Heating and Cooling.

MEDICAL AND HEALTHCARE FACILITIES

VRF gives each patient individual control of their room temperature. Central control ensures that air conditioning is only delivered to rooms that are occupied.

INDIVIDUAL CONTROL

VRF systems give each patient or each room individual control of their room temperature.

MAINTENANCE

Since each refrigerant circuit has the ability to operate independently, a properly designed VRF system can add a layer of security to a HVAC system. If an individual unit needs to be shut down for repairs, the rest of the system can operate normally.

CENTRAL CONTROL

Powerful central control ensures that heating and cooling are delivered to rooms that are occupied. This provides enormous savings for facilities with revolving occupancy.

CLEAN AIR

VRF systems can use ductless indoor units reducing the time and expense of maintaining a HVAC system and eliminating the risk of duct-borne molds and bacteria.

HEALTHIER FACILITY

VRF systems can be integrated with fresh air systems to ensure that air quality meets the needs of the teachers and students.

OPTIONAL

Building Management System (BMS) using BACnet, LonWorks or Modbus.

EDUCATIONAL AND RELIGIOUS FACILITIES

In a school, an investment in VRF is an investment in your community. VRF is more efficient than conventional systems, providing financial savings to the school for many years. Also, a quiet VRF system creates a much better learning environment for students.

HEALTHIER FACILITY

VRF systems can be integrated with fresh air systems to ensure that air quality meets the needs of the teachers and students.

CENTRAL CONTROL

Powerful central control can monitor and control individual schools, or an entire college campus, from a single location.

ZONING

Save energy by heating and cooling only the classrooms that are occupied. Set temperature can be pre-programmed to meet the energy budget for the school district.

COMFORT

VRF helps achieve a healthier, quieter, more comfortable and productive learning environment.

OPTIONAL

Build Management System (BMS) using BACnet, LonWorks or Modbus. Subtenant billing and Energy Charge apportionment.

See Airstage VRF case studies on our site at http://www.fujitsu-general.com/us/commercial/benefits/app-and-solutions.html or on our YouTube channel FujitsuGeneral_USA
OFFICE BUILDINGS AND RETAIL SPACES

VRF provides a comfortable work environment for all employees. Zoning ensures that energy is only used to cool/heat occupied offices. Quiet indoor units and precise temperature control creates the most comfortable and productive work environment.

FLEXIBLE

As tenants and office configurations change, VRF system configurations can also be modified (within original design constraints) to meet the needs of new tenants.

ZONING

Save energy by only heating and cooling occupied offices. No more hot/cold calls since each zone or tenant has individual control of the set temperature.

EASE OF INSTALLATION

Can be installed in occupied office spaces with minimal disruption to occupants. Can even be installed without disrupting the existing HVAC system.

QUIET

Indoor units and outdoor units creates a pleasant work environment and reduces noise complaints.

CONTROL

Powerful controls options can manage and monitor entire building from a single location.

COMFORT

VRF provides a comfortable work environment for all employees. Quiet indoor units and precise temperature control creates the most comfortable and productive work environment.

OPTIONAL

Building Management System (BMS) using BACnet, LonWorks or Modbus. Subtenant billing and Energy Charge apportionment.

MULTI-TENANT DWELLINGS

VRF improves the quality of multi-tenant buildings while reducing tenant complaints. High quality VRF systems let owners save on energy costs and reduced maintenance costs. With VRF, each tenant has individual control over the temperature setting for the comfort of their home.

QUALITY

By delivering quiet, efficient heating and cooling, VRF improves the quality of multifamily buildings and reduces tenant complaints.

ENERGY SAVINGS

Efficient VRF systems reduce the total energy costs for buildings over most other options. High quality systems reduce maintenance and service costs.

INDIVIDUAL BILLING

Using the Energy Charge Apportionment feature, landlords can easily bill each tenant for the percentage of total energy the individual tenant consumes.

INDIVIDUAL COMFORT

With VRF, each tenant can have their own controller to set their room temperature for their maximum comfort.

CONVENIENT CENTRAL CONTROL

Landlord can monitor and control all indoor units from a central location. Landlord can even troubleshoot or solve tenant complaints remotely.

QUIET

Indoor units ensures a quiet, comfortable living environment for all tenants.

OPTIONAL

Subtenant billing and Energy Charge apportionment.

See Airstage VRF case studies on our site at http://www.fujitsu-general.com/us/commercial/benefits/app-and-solutions.html or on our YouTube channel FujitsuGeneral_USA
FUJITSU COMMERCIAL FINANCING

For any commercial HVAC installation, you can turn to Fujitsu with confidence for equipment that’s not only readily available, but also thoughtfully engineered to install with ease and save energy on utility bills.

THE FUJITSU COMMERCIAL FINANCING PROGRAM IS JUST AS EFFICIENT AND SMART:

QUICK, EFFICIENT APPROVAL PROCESS:
• No cost, recourse or credit check for contractors
• End user credit approvals in 2 – 6 hours
• Contractor paid within 24 – 48 hours of install
• Single point of contact, from beginning to end

SOLUTIONS AVAILABLE FOR MOST PROJECTS:
• Commercial units eligible, as well as controls and installation
• Churches, nonprofits and non-building owners qualify

TAKE ADVANTAGE OF CONVENIENT QUOTE OPTIONS:
FujitsuGeneralFinancing.com
“Horizon Keystone Calculator” app for Android or iOS
1-800-606-0049

FOR MORE INFORMATION:
Horizon Keystone Financial
800-606-0049
Fujitsu@horizonkeystone.com

For residential installations, please inquire with your Distributor or Fujitsu Sales Engineer about consumer financing options.

THINGS TO KNOW BEFORE YOU BUY A FUJITSU SYSTEM

COMPLETE SYSTEM WARRANTY
Standard warranties vary depending on model:
• All Fujitsu Airstage systems come standard with a 2-Year Compressor/10-Year Parts warranty.
• Fujitsu Airstage systems that have been properly commissioned have a warranty of 10 Years Parts/10 Year Compressor. For more details, see Airstage Warranty Statement.

For full details, see Airstage Warranty Statement.

THINGS TO KNOW BEFORE YOU INSTALL A FUJITSU SYSTEM

HEAT PUMP DISCLAIMER
In most climates a heat pump will handle all of your heating needs. However, this system sometimes requires some other additional source of heat to satisfy heating requirements in the coldest environments. All of Fujitsu’s heat pumps use inverter technology and as such offer a wider operating range and more heat capacity than a standard heat pump but will not provide adequate heating if improperly sized or operated outside of its operating range. Specifications vary by model; please consult your contractor before choosing a heat pump as your only source of heat. Systems will maintain temperature up to +6 degrees relative to set temperature. To increase energy efficiency on multi-type systems, you should turn off the evaporators when heating is not required.

CERTIFICATIONS
ISO
ISO14001 is the standard defined by the International Organization for Standardization (ISO) related to environmental management systems. Fujitsu General America, Inc. has been acknowledged by an internationally accredited compliance organization as having an appropriate program of environmental protection procedures and activities to meet the requirements of ISO14001. The air conditioners manufactured by Fujitsu have received ISO14001 series certification for quality assurance.

AHRI ENERGY GUIDE® PROGRAM (U.S.)
To view AHRI numbers or Energy Guide labels, please go to www.ahridirectory.org.

HRAI ENERGUIDE® PROGRAM (CANADA)

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WARNING
Always use a licensed installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leaks, electrical shock, fire, or explosion. Use only parts and accessories supplied or specified by Fujitsu. Ask a licensed installer to install parts and accessories. Use of unauthorized or improper installation of parts and accessories can result in injury or property damage. Read the installation manual carefully before using this product. The installation manual provides important safety instructions and warnings which should be followed closely. For any questions or concerns, please contact Fujitsu General America, Inc.

DISCLAIMER
Fujitsu’s products are subject to continuous improvements. Fujitsu reserves the right to modify product design, specifications and information in this brochure without notice and without incurring any obligations.

ASTM
Our outdoor units shall withstand 1,000 hours of salt spray tested per procedure ASTM B117.

ROHS COMPLIANT
Fujitsu participates in the RoHS Directive, which is the Restriction of Hazardous Substances in electrical and electronic equipment. It is an EU directive intended to protect the environment by forcing manufacturers to eliminate or severely curtail the use of cadmium, hexavalent chromium, and lead in all products from automobiles to consumer electronics.

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