AIRSTAGE™ VRF Systems can be designed to create an air conditioning solution to suit most buildings requirements.

AIRSTAGE™ VRF Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

**PRODUCT LINEUP**

**VRF**

For LIGHT COMMERCIAL 
& RESIDENTIAL, COMMERCIAL
PRODUCT LINEUP: VRF

AIRSTAGE™ J-Series

OVERVIEW

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and hotels to large stores, houses.

J-III is an outdoor unit with a slim design offering a high degree of freedom of installation that is recommended for mid-size office buildings and hotels. Furthermore, you can connect up to 40* indoor units with newly added 14/16 HP model. 14/16 HP model is also ideal for hospitals and educational facilities with many rooms. (*: 16 HP model)

Slim Outdoor Unit
Although this is a 14/16 HP model that can handle slightly larger properties, it has a slim depth of 480 mm. This model can be introduced and installed even in limited spaces.

Small room application
Up to 30-40 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

Top Class Low Operating Sound
Top class low operating sound is realized. Highly suited to densely populated areas thanks to their low operating sound.

J-IIIL is an outdoor unit with a slim design offering a high degree of freedom of installation that is recommended for mid-size office buildings and hotels. Furthermore, you can connect up to 40* indoor units with newly added 14/16 HP model. 14/16 HP model is also ideal for hospitals and educational facilities with many rooms. (*: 16 HP model)

High Energy Efficiency
Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit combination.

Flexible systems for small- and medium-size buildings air conditioning
Space saving design and long piping design allow for flexible installation on the roofs or balconies of small and medium-size buildings. Multiple indoor units of various capacities and types can be connected.

J-IIS has a compact design with a height of 998 mm that does not obstruct visibility even when installed near waist high windows. This model is also ideal for large houses, retail stores and other properties.

Space saving and low sound level design
Economical individual air conditioning is realized by ALL-DC technology, large capacity DC twin rotary compressor, and 3-row heat exchanger though the size is compact.

Flexible systems for homes, shops, small-size buildings air conditioning
Due to compact size design and flexible piping design, J-IIS series can be installed easily at the place where the installation space is limited such as homes, shops, and small offices. Multiple indoor units of various capacities and types can be connected.
PRODUCT LINEUP: VRF

AIRSTAGE™ V-Series

OVERVIEW

AIRSTAGE™ V-Series Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

AIRSTAGE™ V-Series

Smart and cutting edge design. Extensive lineup from 8 HP to 54 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 150%

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 the rooms with large temperature differences, etc.

Annual cooling operation
Use annual cooling operation for the rooms and other spaces that require constant temperature control throughout the year.

Handles changes in the temperature difference
The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.

Excellent energy saving
Heat pump inverter type realizes the highly energy saving air conditioning for individual cooling and heating operation by all inverter technology for seasonal efficiency.

High design flexibility for various building air conditioning
High design flexibility meets the various needs of high-rise building air conditioning such as outdoor unit roof top concentrated installation and each floor installation by large capacity combination, sufficient connection capacity, and high static pressure design.

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

Fujitsu General tropical VRF is designed for tropical weather. Extensive lineup from 8 HP to 54 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 130%

High ambient operation design
Possible to operate cooling up to 52ºC outdoor temperature

Powerful cooling capacity design
Keeping high cooling power at even high ambient temperature

Anti-corrosion treatment design
All metallic and PCB components are protected against corrosion

Energy saving technology that boosted operation efficiency

1. Powerful large propeller fan
   By using CFD** technology, a newly designed fan achieves high performance and low noise operation.
   * CFD = Computational fluid dynamics

2. 3-phase DC fan motor
   Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.

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

4. 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.

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

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

7. Front intake port
   In multiple outdoor unit installations, the unique front intake design improves air flow into the Heat Exchanger.
PRODUCT LINEUP: VRF

VRF Outdoor Units Lineup

<table>
<thead>
<tr>
<th>Capacity (TR)</th>
<th>12.1</th>
<th>14.0</th>
<th>16.1-16.5</th>
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<th>20.0</th>
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<th>26.0</th>
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</tbody>
</table>
PRODUCT LINEUP: VRF

CORE TECHNOLOGY
for AIRSTAGE™ J-Series & V-Series

High Energy Efficiency

Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger.

- High ambient operation
- Refrigeration cycle technology allows cooling operation even at -15°C.

High Efficiency Technology

- High efficiency design with top class SEER/SCOP
- All small VRF series including new J-III series have DC technology to realize the high efficiency operation. This enhances the durability and reliability of small VRF series.

Energy Saving Function

Economy operation

Economy operation can be set by remote controller. The temperature setting is offset automatically over a certain period of time.

Room temperature set point limitation

The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.

Auto-off timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.

Capacity save operation

Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.

More Comfort

Precision refrigerant flow control

Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5°C.

Auto changeover function

At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.

Quiet operation

Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.
PRODUCT LINEUP: VRF-CORE TECHNOLOGY for AIRSTAGE® J-Series & V-Series

Design Flexibility

**Top class Compact design**
Compact outdoor unit can be attained at the top class in the industry by optimal airflow structure design. (Up to 16 HP)

**Long piping design**
Piping design suitable for long, narrow office buildings with a difference in height and low rise shops with depth (AIRSTAGE™ J-IIIL series)

**Overall piping length**
Max. 1,000 m
World’s top class overall piping length of 1,000 m allows for application in a wide variety of buildings.

High capacity connection

<table>
<thead>
<tr>
<th>Series</th>
<th>Connectable indoor unit capacity range</th>
<th>Connectable indoor unit number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRSTAGE™ J-II series Heat Pump Mod.</td>
<td>50% to 150%*3</td>
<td>up to 40</td>
</tr>
<tr>
<td>AIRSTAGE™ J-III series Heat Pump Mod.</td>
<td>50% to 150%*3</td>
<td>up to 30</td>
</tr>
<tr>
<td>AIRSTAGE™ J-IIIL series Heat Pump Mod.</td>
<td>50%*4 to 150%*3</td>
<td>up to 13</td>
</tr>
<tr>
<td>AIRSTAGE™ J-IIIL series Heat Recovery Modular type</td>
<td>50% to 150%*3</td>
<td>up to 8</td>
</tr>
<tr>
<td>AIRSTAGE™ V-II series Heat Pump Mod.</td>
<td>50% to 150%*3</td>
<td>up to 64</td>
</tr>
<tr>
<td>AIRSTAGE™ V-III series Heat Pump Mod.</td>
<td>50% to 150%*3</td>
<td>up to 64</td>
</tr>
</tbody>
</table>

*1: Conditions of maximum connectable indoor unit capacity ratio is as the chart above.
*2: Only 4 HP is 46%.
*3: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.

**Designed for low refrigerant charge**
Optimal design of indoor unit and outdoor unit reduces the refrigerant volume and special support is not required even when installing in a small room of about 15 m².

**Various optional parts**
- Intake fresh air with our Fresh Air Intake kit
- Comfortable temperature control with a remote sensor
- Operation by linking up to ventilation equipment and air handling unit with the DX-Kit

**Wide operating range**
Installation in extreme temperature conditions is possible due to an increase in operational range.

"*1: "HP series. The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 60 m or less.
"*2: 6 HP in max. 60 m.
"*3: 18 HP in max. 15 m.

**Opportunities to use**
- For the outdoor unit installed below the indoor units: 40 m max.

**AIRSTAGE™ VR-II series**
- Heat Recovery Modular type
- 50% to 150%*3 up to 64

**AIRSTAGE™ V-III series**
- Heat Pump Modular type
- 50% to 150%*3 up to 64

**AIRSTAGE™ J-IIIL series**
- Heat Pump type
- 50% to 150%*3 up to 64

**Also corresponds to ventilation**

Interesting features:
- Installing in Small Room
- Designed for low refrigerant charge
- Various optional parts
- Wide operating range
**High Reliability**

**Liquid flow back protection**
By adopting a large sized accumulator, not completely vapourised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.

**Backup operation**
If one compressor fails, backup operation will be performed by the remaining compressors.

**Advanced refrigerant control**
Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.

**Easy Installation**

**Simple wiring work**
Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

**Automatic address setting**
The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB. Manual address setting from indoor unit and remote controller is also possible.

**Liquid flow back protection**

\[\text{Completely vapourized refrigerant} \quad \text{Liquid refrigerant} \quad \text{Large sized Accumulator}\]

**Backup operation**

\[\text{Master Slave 1, Slave 2, Master Slave 1, Slave 2} \quad \text{DC1, DC2, DC3} \]

**Advanced refrigerant control**

\[\text{Balance operation condition} \quad \text{Unbalance operation condition} \]

**Easy Service & Maintenance**

**Design for easy maintenance**

**Easy to read 7-segment LED**
Confirm detailed operational and error status without using any specific equipment.
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit

**Movable PCB panel:**
Easier for maintenance work behind the PCB

**Error diagnosis by Service Tool**

Connection to Service Tool
- Detail operation status and recent error history can be checked and analysed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.

**Remote monitoring**
The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation.

The operating VRF network system in the building can be monitored real time over the Internet.

**Error status can be checked easily via the indoor unit wired controller**
An error code is displayed on a liquid crystal screen.

**Remote controller address**
- Error status can be checked easily by outdoor unit display
- Note: Serial connection can’t use the automatic address setting in a multiple refrigerant system.

**Parallel connection**
- Up to maximum length 3,600 m

**Error status can be checked easily via the indoor unit wired controller**
- An error code is displayed on a liquid crystal screen.
- Error status can be checked easily by outdoor unit display

**Automatic address setting**
The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB.

**Manual address setting from indoor unit and remote controller is also possible.**

**Error code**
- Error status can be checked easily by outdoor unit display
Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.

**PRODUCT LINEUP: VRF-AIRSTAGE™ J-Series**

**Slim & Compact Design**

- **Depth difference**: -285 mm (J-IIIL all models compared with current all models)
- **Space area**: -45% (compared with current 8 HP model)
- **Height difference**: -262 mm (compared with current 8/10 HP model)
- **Space area**: -26% (compared with current 8/10 HP model)

**Inhouse installation**

- **Low noise in consideration for the nearby residents**
- **Flexible installation**
  - This model is front blow type and about 1000 mm wide, so flexible installation is possible even at narrow inhouse space.
- **Space saving**
  - Due to compact and thin model, direct ground installation or wall mounted installation is possible even at narrow off-street.

**Installation at building back side**

**Installation at back street of building**

- **Flexible installation**
  - This model is front blow type and slim & low body, so installation space is compact. Building windows are not blocked and space saving multiple units installation is possible.
PRODUCT LINEUP: VRF-AIRSTAGE™ J-Series

Heat Pump for Small Capacity Type

AIRSTAGE J-III-L

Long Piping Length
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.

Up to 40 units can be connected
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry’s top class connection of 40 units.* 16HP model

High Static Pressure
External static pressure is available up to 60Pa for 16/18HP. (30Pa for 8/10HP, 20Pa for 12HP)

Total pipe length Max. 400 m
Height difference between outdoor and indoor units 50 m max.
Height difference between indoor and indoor units 50 m max.

Top Class Low Operating Sound
Top class low operating sound is realized. Highly suited to densely populated areas thanks to their low operating sound.

Sound Power Level
-11 dB(A)

Specifications

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>8 HP</th>
<th>10 HP</th>
<th>12 HP</th>
<th>14 HP</th>
<th>16 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>630</td>
<td>690</td>
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<tr>
<th>Refrigerant Type</th>
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<tr>
<td>Global Warming Potential</td>
<td>2,088</td>
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<tr>
<td>Charge</td>
<td>7.0 (14.6) kg (CO2eq-T)</td>
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<tr>
<td>7.5 (15.7) kg (CO2eq-T)</td>
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</table>

Connection pipe diameter

<table>
<thead>
<tr>
<th>Liquid</th>
<th>Gas</th>
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</thead>
<tbody>
<tr>
<td>9.52 mm</td>
<td>22.20 mm</td>
</tr>
<tr>
<td>12.70 mm</td>
<td>28.58 mm</td>
</tr>
</tbody>
</table>

Total pipe length m

Max. 400 m

Max. height difference

50 m (Outdoor unit: Upper/Lower)

Operation range

Cooling: -15 to 46°C
Heating: -20 to 21°C

60Pa

Top view
Front view
Side view
Bottom view

NEW

Heat Pump for Small Capacity Type

AIRSTAGE J-III-L

Long Piping Length
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.

Up to 40 units can be connected
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry’s top class connection of 40 units.* 16HP model

High Static Pressure
External static pressure is available up to 60Pa for 16/18HP. (30Pa for 8/10HP, 20Pa for 12HP)

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Height difference between outdoor and indoor units 50 m max.
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Top class low operating sound is realized. Highly suited to densely populated areas thanks to their low operating sound.

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Total pipe length m

Max. 400 m

Max. height difference

50 m (Outdoor unit: Upper/Lower)

Operation range

Cooling: -15 to 46°C
Heating: -20 to 21°C

60Pa

Top view
Front view
Side view
Bottom view

NEW

Heat Pump for Small Capacity Type

AIRSTAGE J-III-L

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</table>

<table>
<thead>
<tr>
<th>Refrigerant Type</th>
<th>R410A (2,088)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Warming Potential</td>
<td>2,088</td>
</tr>
<tr>
<td>Charge</td>
<td>7.0 (14.6) kg (CO2eq-T)</td>
</tr>
<tr>
<td>7.5 (15.7) kg (CO2eq-T)</td>
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</tr>
<tr>
<td>11.0 (22.9) kg (CO2eq-T)</td>
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<tr>
<td>11.0 (22.9) kg (CO2eq-T)</td>
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</table>

Connection pipe diameter

<table>
<thead>
<tr>
<th>Liquid</th>
<th>Gas</th>
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<tbody>
<tr>
<td>9.52 mm</td>
<td>22.20 mm</td>
</tr>
<tr>
<td>12.70 mm</td>
<td>28.58 mm</td>
</tr>
</tbody>
</table>

Total pipe length m

Max. 400 m

Max. height difference

50 m (Outdoor unit: Upper/Lower)

Operation range

Cooling: -15 to 46°C
Heating: -20 to 21°C

60Pa

Top view
Front view
Side view
Bottom view

NEW
PRODUCT LINEUP: VRF-AIRSTAGE™ J-Series

Heat Pump for Small Capacity Type

Long Piping Length
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.

Non-stop oil recovery operation
A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.

Non-stop oil recovery operation

Easier Installation
Connection check function: Possible to confirm whether wiring connection and address setting are correct by a quick check run function.

Connection check function:
- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

Specifications

<table>
<thead>
<tr>
<th>Rating Capacity</th>
<th>kW</th>
<th>HP</th>
<th>kW</th>
<th>HP</th>
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</thead>
<tbody>
<tr>
<td>AJY040LBLAH</td>
<td>12.1</td>
<td>45</td>
<td>AJY045LBLAH</td>
<td>14.0</td>
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<tr>
<td>AJY054LBLAH</td>
<td>15.5</td>
<td>6</td>
<td>AJY040LELAH</td>
<td>12.1</td>
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<tr>
<td>AJY045LELAH</td>
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<td>5</td>
<td>AJY054LELAH</td>
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Dimensions

<table>
<thead>
<tr>
<th>Unit: mm</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,334</td>
<td>970</td>
<td>360</td>
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</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.
- Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
- Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
- Operation range

Heating: -20°CDB/21°CWB
Cooling: -5°CDB/46°CWB

- Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
- The protective function may work when using it outside the operation range.

Dimensions (Unit: mm)

- Width: 970
- Height: 1,334
- Depth: 370
PRODUCT LINEUP: VRF-AIRSTAGE™ J-Series

Heat Pump for Small Capacity Type

AIRSTAGE J-IIIS

Long piping length
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up new possibilities in system design.

- Actual piping length: 120 m max.
- Height difference between outdoor and indoor units: 30 m max.
- Piping length from first separation tube to the furthest indoor unit: 40 m max.
- Height difference between indoor and indoor units: 15 m max.

Non-stop oil recovery operation
A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.

- Non-stop oil recovery operation
- Heat pump for small capacity type

Specifications

<table>
<thead>
<tr>
<th>Rating Capacity range</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>AJY040LCLAH</td>
<td>AJY045LCLAH</td>
<td>AJY054LCLAH</td>
</tr>
<tr>
<td>Power source</td>
<td>Single-phase, ~230V, 50Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity (W)</td>
<td>12.1</td>
<td>14.0</td>
<td>15.1</td>
</tr>
<tr>
<td>Cooling kW</td>
<td>12.1</td>
<td>14.0</td>
<td>15.1</td>
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<tr>
<td>Heating kW</td>
<td>13.6</td>
<td>16.0</td>
<td>16.5</td>
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<tr>
<td>Input power (W)</td>
<td>3.44</td>
<td>4.43</td>
<td>5.03</td>
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<tr>
<td>Cooling W/W</td>
<td>3.52</td>
<td>3.16</td>
<td>3.00</td>
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<tr>
<td>Heating W/W</td>
<td>4.40</td>
<td>4.07</td>
<td>4.01</td>
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<tr>
<td>Airflow rate m³/h</td>
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<td>4,200</td>
<td>4,200</td>
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<td>Cooling dB(A)</td>
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<td>53 / 69</td>
<td>54 / 70</td>
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<tr>
<td>Heating dB(A)</td>
<td>54 / 68</td>
<td>55 / 69</td>
<td>56 / 70</td>
</tr>
<tr>
<td>Net Dimensions (mm)</td>
<td>Height</td>
<td>Width</td>
<td>Depth</td>
</tr>
<tr>
<td>Height</td>
<td>998</td>
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<td>370</td>
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<tr>
<td>Weight (kg)</td>
<td>86</td>
<td>86</td>
<td>87</td>
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<tr>
<td>Refrigerant Type</td>
<td>R410A (2,088)</td>
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<tr>
<td>Global Warming Potential</td>
<td>R410A (2,088)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charge (kg(CO2eq-T))</td>
<td>4.0 (8.4)</td>
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<td></td>
</tr>
<tr>
<td>Connection pipe diameter (mm)</td>
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<tr>
<td>Total pipe length (m)</td>
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<td>Max. height difference (mm)</td>
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</tr>
<tr>
<td>Operation range (°C)</td>
<td>Cooling</td>
<td>Heating</td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>-5 to 46</td>
<td>-5 to 46</td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>-20 to 21</td>
<td>-20 to 21</td>
<td></td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.
- Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
- Heating: Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.
- Pipe length: 7.5 m; Height difference between outdoor and indoor unit: 0 m.
- The protective function may work when using it outside the operation range.

Easier Installation
- Connection check function: Possible to confirm whether wiring connection and address setting are correct by a quick check run function.
- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed
PRODUCT LINEUP: VRF-AIRSTAGE™ V-Series

Heat Recovery Modular Type

High Operating Energy Efficiency
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.
### Outdoor units specifications

#### Space Saving Combination

<table>
<thead>
<tr>
<th>Rating Capacity range</th>
<th>16</th>
<th>22</th>
<th>24</th>
<th>26</th>
<th>28</th>
<th>30</th>
<th>32</th>
<th>34</th>
<th>36</th>
<th>38</th>
<th>40</th>
<th>42</th>
<th>44</th>
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<tbody>
<tr>
<td>Unit</td>
<td>1</td>
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<td>4</td>
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<td>11</td>
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<tr>
<td>Minimum connectable indoor</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>3,150</td>
<td>3,300</td>
<td>3,450</td>
<td>3,600</td>
<td>3,750</td>
<td>3,900</td>
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<td>4,350</td>
<td>4,500</td>
<td>4,650</td>
<td>4,800</td>
<td>4,950</td>
<td>5,100</td>
<td>5,250</td>
</tr>
<tr>
<td>Weight</td>
<td>270</td>
<td>320</td>
<td>370</td>
<td>420</td>
<td>470</td>
<td>520</td>
<td>570</td>
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<td>670</td>
<td>720</td>
<td>770</td>
<td>820</td>
<td>870</td>
<td>920</td>
<td>970</td>
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</table>

#### Energy Efficiency Combination

<table>
<thead>
<tr>
<th>Rating Capacity range</th>
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<th>22</th>
<th>24</th>
<th>26</th>
<th>28</th>
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<th>32</th>
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<th>40</th>
<th>42</th>
<th>44</th>
<th>46</th>
<th>48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
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<td>2</td>
<td>3</td>
<td>4</td>
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<td>6</td>
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<tr>
<td>Minimum connectable indoor</td>
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<tr>
<td>Dimensions (mm)</td>
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<td>3,300</td>
<td>3,450</td>
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<td>4,950</td>
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<tr>
<td>Weight</td>
<td>270</td>
<td>320</td>
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<td>720</td>
<td>770</td>
<td>820</td>
<td>870</td>
<td>920</td>
<td>970</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 27°C/80°F, and outdoor temperature of 35°C/95°F
- Heating: Indoor temperature of 20°C/68°F, and outdoor temperature of 7°C/45°F

Pipe length: 75 cm, Height difference between outdoor unit and indoor unit: 9 cm

*1: Minimum connectable indoor unit numbers
*2: The noise values are the values when measured at an anechoic room. When measured in a real installed room, surrounding noise and reflections are included and the measured value is usually larger than the indicated value.
PRODUCT LINEUP: VRF-AIRSTAGE™ V-Series

Heat Pump
Modular Type

Efficiency in actual operation
Top class high COP is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.

System configuration example
• This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
• Connection of multiple indoor units using separation tubes and headers.

Dimensions
(Unit: mm)

8, 10 HP

12, 14, 16, 18 HP

8, 10 HP: AJYD072LALBH / AJYD090LALBH
12, 14, 16, 18 HP: AJYD108LALBH / AJYD126LALBH / AJYD144LALBH / AJYD162LALBH
### Space Saving Combination

<table>
<thead>
<tr>
<th>Indoor unit connectable capacity</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>24</th>
<th>26</th>
<th>28</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit 1</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>AJY072LALBH</td>
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<tr>
<td><strong>Unit 3</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Unit 4</strong></td>
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<td></td>
<td></td>
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</tr>
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<td>AJY072LALBH</td>
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</tr>
</tbody>
</table>

### Indoor unit connectable capacity

- **Unit 1**: AJY072LALBH
- **Unit 2**: AJY072LALBH
- **Unit 3**: AJY072LALBH
- **Unit 4**: AJY072LALBH

### Energy Efficiency Combination

<table>
<thead>
<tr>
<th>Indoor unit connectable capacity</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>24</th>
<th>26</th>
<th>28</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit 1</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Unit 2</strong></td>
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<td></td>
</tr>
<tr>
<td>AJY072LALBH</td>
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<tr>
<td><strong>Unit 3</strong></td>
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<tr>
<td><strong>Unit 4</strong></td>
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</tbody>
</table>

### Indoor unit connectable capacity

- **Unit 1**: AJY072LALBH
- **Unit 2**: AJY072LALBH
- **Unit 3**: AJY072LALBH
- **Unit 4**: AJY072LALBH

---

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

- **Cooling**: Indoor temperature of 27°C/19°C, and outdoor temperature of 35°C/24°C.
- **Heating**: Indoor temperature of 20°C/19°C, and outdoor temperature of 7°C/6°C.

When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

When cooling operation is conducted at an operation temperature below 15°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.
Efficiency in actual operation

Top class high COP is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.

Space saving combination

Energy efficiency combination

Heavy anti-corrosion treatment design

Possible to operate cooling up to 52°C outdoor temperature by adopting DC fan motor, large propeller fan and large heat exchanger.

For 24 HP Combination

COP 17% UP

High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature by adopting DC fan motor, large propeller fan and large heat exchanger.

Cooling operation up to 52°C ambient

Heat Pump Modular Type

PRODUCT LINEUP: VRF-AIRSTAGE™ V-Series

Heating 21°C

-5°C ~ -20°C

* When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.

For more information, please contact Fujitsu General Limited (www.fujitsu-general.com)
### Outdoor units specifications

#### Space Saving Combination

| Unit 1 | 8   | 10  | 12  | 14  | 16  | 18  | 20  | 22  | 24  | 26  | 28  | 30  | 32  | 34  | 36  | 38  | 40  | 42  | 44  | 46  | 48  | 50  | 52  | 54  |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cooling |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Heating |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

#### Energy Efficiency Combination

| Unit 1 | 16  | 18  | 20  | 22  | 24  | 26  | 28  | 30  | 32  | 34  | 36  | 38  | 40  | 42  | 44  | 46  | 48  | 50  | 52  | 54  |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cooling |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Heating |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

### Note
Specifications are based on the following conditions:
- **Heating:** Indoor temperature of 20°C (68°F) and outdoor temperature of 7°C (45°F).
- **Cooling:** Outdoor temperature of 35°C (95°F), and outdoor temperature of 35°C (95°F) for refrigeration.

Pipe length: ±6m. Height difference between outdoor and indoor unit: ±0m.
# VRF Indoor Unit Lineup

## Capacities range kW

<table>
<thead>
<tr>
<th>Model</th>
<th>7.1</th>
<th>7.2</th>
<th>7.8</th>
<th>8.5</th>
<th>10</th>
<th>11.2</th>
<th>12.5</th>
<th>14.0</th>
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<tbody>
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<td></td>
</tr>
<tr>
<td>Capacity range (kW)</td>
<td>1.1</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Cassette
- A-way Flow
  - Slim type: ARXD04GALH<br>  - Large type: ARXD07GALH<br>  - Slim type: ARXD09GALH<br>  - Large type: ARXD12GALH<br>  - Slim type: ARXD14GALH<br>  - Large type: ARXD18GALH
- Circular Flow
  - Slim type: ARXK04GCLH<br>  - Large type: ARXK07GCLH<br>  - Slim type: ARXK09GCLH<br>  - Large type: ARXK12GCLH<br>  - Slim type: ARXK14GCLH<br>  - Large type: ARXK18GCLH

### Duct
- Mini Duct (With drain pump): ARXN018GATBH<br>  - Slim Duct (With drain pump): ARXN024GATBH<br>  - Medium Static Pressure Duct: ARXN030GATBH<br>  - High Static Pressure Duct: ARXN036GATBH<br>  - Large Airflow Duct (Compact type): ARXN045GATBH<br>  - Large Airflow Duct: ARXN054GATBH

### Floor
- Slim Concealed Floor (Same as Ceiling models): ARYA004GATH<br>  - Compact Floor: ARYA007GATH<br>  - Compact Floor (EEV external): ARYA009GATH

### Ceiling
- Wall Mounted: ASYA004GATH<br>  - Wall Mounted (EEV external): ASYA007GATH

### OPTIONAL PARTS
- VENTILATION
- AIR TO WATER

---

*1: ARXD04GALH and AUXA18/24GALH cannot be connected to J-III L series. *2: ARXD04GALH and AUXA18/24GALH cannot be connected to J-III L series only. *3: Large Airflow Duct (Compact type) can be connected to V-III series only. *4: Large Airflow Duct can be connected to V-II series and VR-II series.
PRODUCT LINEUP: VRF

**Compact Cassette**

- **Grid Type**
- **Compact & Comfort**

Model:
- AUXB04GBLH / AUXB07GALH / AUXB09GALH / AUXB12GALH / AUXB14GALH / AUXB18GALH / AUXB24GALH

Panel Model:
- UTG-UYFE-W

**Compact and stylish panel design**
Compact and stylish panel design fits the grid type ceiling. It is a linear design suitable for grid shape of 620 mm × 620 mm grid ceiling.

**Flexible installation**
It is suitable for ceiling of grid type and it has high degree of freedom of installation and it can be installed beside lighting and ventilation opening.

**Easy maintenance**
Maintenance is easier by removing the ceiling panel next to the grill, maintenance can be done, and new installation of inspection hole is unnecessary, so construction costs can be suppressed.

Wall Mounted

**Compact & Comfort**

Model:
- ASYB12GCAH / ASYB14GCAH (EEV internal)
- ASYB12GCAH / ASYB14GCAH (EEV external)

**High efficient compact design**
High efficient compact design is realized by mounting a high density and large heat exchanger. Compact body makes it possible to install inconspicuously even in a meeting or office room and comfortable air conditioning is provided.

**More comfort airflow**
Comfortable air conditioning is provided by mounting our unique power diffuser.

**Human sensor increases more energy saving**
Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.

**6 Fan Speed Control**
Multi-speed air flow control is possible to suit the environment.

## VRF Indoor Units Specifications

### Compact Cassette Grid Type

<table>
<thead>
<tr>
<th>Model Name</th>
<th>AIRFLOW [m³/h]</th>
<th>DISPLACEMENT [m³/s]</th>
<th>COP [CIBSE]</th>
<th>EER [CIBSE]</th>
<th>REFRIGERANT</th>
<th>NET Dimensions (H × W × D) [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUXK030GLAH</td>
<td>105</td>
<td>0.36</td>
<td>3.5</td>
<td>3.2</td>
<td>R410A</td>
<td>288 × 840 × 840</td>
</tr>
</tbody>
</table>

### Circular Flow Cassette

<table>
<thead>
<tr>
<th>Model Name</th>
<th>AIRFLOW [m³/h]</th>
<th>DISPLACEMENT [m³/s]</th>
<th>COP [CIBSE]</th>
<th>EER [CIBSE]</th>
<th>REFRIGERANT</th>
<th>NET Dimensions (H × W × D) [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUXA18GALH</td>
<td>54</td>
<td>0.15</td>
<td>2.7</td>
<td>2.2</td>
<td>R410A</td>
<td>288 × 840 × 840</td>
</tr>
</tbody>
</table>

### 4-way Cassette

<table>
<thead>
<tr>
<th>Model Name</th>
<th>AIRFLOW [m³/h]</th>
<th>DISPLACEMENT [m³/s]</th>
<th>COP [CIBSE]</th>
<th>EER [CIBSE]</th>
<th>REFRIGERANT</th>
<th>NET Dimensions (H × W × D) [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUXA24GALH</td>
<td>112</td>
<td>0.36</td>
<td>3.2</td>
<td>2.8</td>
<td>R410A</td>
<td>288 × 840 × 840</td>
</tr>
</tbody>
</table>
### PRODUCT LINEUP: VRF

#### VRF Indoor Units Specifications

**Note Duct**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXK04GCLH</th>
<th>ARXK07GCLH</th>
<th>ARXK09GCLH</th>
<th>ARXK12GCLH</th>
<th>ARXK14GCLH</th>
<th>ARXK18GCLH</th>
<th>ARXK24GCLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Cooling kW</td>
<td>1.1</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
<td>7.1</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
<td>14.5 (32)</td>
<td>15.5 (34)</td>
<td>16 (35)</td>
<td>19 (42)</td>
<td>22.5 (50)</td>
<td>23 (50)</td>
<td>27 (59)</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>38 dB(A)</td>
<td>42 dB(A)</td>
<td>44 dB(A)</td>
<td>48 dB(A)</td>
<td>51 dB(A)</td>
<td>55 dB(A)</td>
<td>60 dB(A)</td>
</tr>
<tr>
<td>Static pressure range Pa</td>
<td>0 to 30</td>
<td>0 to 50</td>
<td>0 to 70</td>
<td>0 to 100</td>
<td>0 to 150</td>
<td>0 to 150</td>
<td>0 to 150</td>
</tr>
</tbody>
</table>

**Medium Static Pressure Duct**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXK04GCLH</th>
<th>ARXK07GCLH</th>
<th>ARXK09GCLH</th>
<th>ARXK12GCLH</th>
<th>ARXK14GCLH</th>
<th>ARXK18GCLH</th>
<th>ARXK24GCLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Cooling kW</td>
<td>1.1</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
<td>7.1</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
<td>14.5 (32)</td>
<td>15.5 (34)</td>
<td>16 (35)</td>
<td>19 (42)</td>
<td>22.5 (50)</td>
<td>23 (50)</td>
<td>27 (59)</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>38 dB(A)</td>
<td>42 dB(A)</td>
<td>44 dB(A)</td>
<td>48 dB(A)</td>
<td>51 dB(A)</td>
<td>55 dB(A)</td>
<td>60 dB(A)</td>
</tr>
<tr>
<td>Static pressure range Pa</td>
<td>0 to 30</td>
<td>0 to 50</td>
<td>0 to 70</td>
<td>0 to 100</td>
<td>0 to 150</td>
<td>0 to 150</td>
<td>0 to 150</td>
</tr>
</tbody>
</table>

**High Static Pressure Duct**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXK04GCLH</th>
<th>ARXK07GCLH</th>
<th>ARXK09GCLH</th>
<th>ARXK12GCLH</th>
<th>ARXK14GCLH</th>
<th>ARXK18GCLH</th>
<th>ARXK24GCLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Cooling kW</td>
<td>1.1</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
<td>7.1</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
<td>14.5 (32)</td>
<td>15.5 (34)</td>
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<td>19 (42)</td>
<td>22.5 (50)</td>
<td>23 (50)</td>
<td>27 (59)</td>
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<tr>
<td>Sound pressure level</td>
<td>38 dB(A)</td>
<td>42 dB(A)</td>
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<td>60 dB(A)</td>
</tr>
<tr>
<td>Static pressure range Pa</td>
<td>0 to 30</td>
<td>0 to 50</td>
<td>0 to 70</td>
<td>0 to 100</td>
<td>0 to 150</td>
<td>0 to 150</td>
<td>0 to 150</td>
</tr>
</tbody>
</table>

**Large Airflow Duct**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXK04GCLH</th>
<th>ARXK07GCLH</th>
<th>ARXK09GCLH</th>
<th>ARXK12GCLH</th>
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<td>2.8</td>
<td>3.6</td>
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<td>7.1</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
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<td>60 dB(A)</td>
</tr>
<tr>
<td>Static pressure range Pa</td>
<td>0 to 30</td>
<td>0 to 50</td>
<td>0 to 70</td>
<td>0 to 100</td>
<td>0 to 150</td>
<td>0 to 150</td>
<td>0 to 150</td>
</tr>
</tbody>
</table>

**Large Airflow Duct (Compact type)**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXK04GCLH</th>
<th>ARXK07GCLH</th>
<th>ARXK09GCLH</th>
<th>ARXK12GCLH</th>
<th>ARXK14GCLH</th>
<th>ARXK18GCLH</th>
<th>ARXK24GCLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Cooling kW</td>
<td>1.1</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
<td>7.1</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
<td>14.5 (32)</td>
<td>15.5 (34)</td>
<td>16 (35)</td>
<td>19 (42)</td>
<td>22.5 (50)</td>
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</tr>
<tr>
<td>Static pressure range Pa</td>
<td>0 to 30</td>
<td>0 to 50</td>
<td>0 to 70</td>
<td>0 to 100</td>
<td>0 to 150</td>
<td>0 to 150</td>
<td>0 to 150</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions. Cooling: Indoor temperature of 27°C/80°F, and outdoor temperature of 35°C/95°F. Heating: Indoor temperature of 20°C/68°F, and outdoor temperature of 7°C/45°F. Pipe length: 7.5 m. Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 V.
### VRF Indoor Units Specifications

#### Compact Floor

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ASYA012GCAH</th>
<th>ASYA014GCAH</th>
<th>ASYE012GCAH</th>
<th>ASYE014GCAH</th>
<th>ASYA018GBCH</th>
<th>ASYA024GBCH</th>
<th>ASYA030GTAH</th>
<th>ASYA034GTAH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>Cooling kW</td>
<td>1.1</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.0</td>
<td>3.6</td>
<td>4.0</td>
</tr>
<tr>
<td><strong>Airflow rate</strong></td>
<td>m³/h</td>
<td>660</td>
<td>780</td>
<td>1,000</td>
<td>1,000</td>
<td>660</td>
<td>780</td>
<td>1,000</td>
</tr>
<tr>
<td><strong>Sound pressure level</strong></td>
<td>dB(A)</td>
<td>32</td>
<td>36</td>
<td>40</td>
<td>46</td>
<td>32</td>
<td>36</td>
<td>40</td>
</tr>
<tr>
<td><strong>Input power</strong></td>
<td>W</td>
<td>32</td>
<td>60</td>
<td>74</td>
<td>103</td>
<td>32</td>
<td>60</td>
<td>74</td>
</tr>
<tr>
<td><strong>Pipe diameter</strong></td>
<td>6.35</td>
<td>6.35</td>
<td>6.35</td>
<td>6.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Wall Mounted

<table>
<thead>
<tr>
<th>Model Name</th>
<th>ASYA012GCAH</th>
<th>ASYA014GCAH</th>
<th>ASYA018GBCH</th>
<th>ASYA024GBCH</th>
<th>ASYA030GTAH</th>
<th>ASYA034GTAH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>Cooling kW</td>
<td>5.6</td>
<td>7.1</td>
<td>9.0</td>
<td>10.0</td>
<td></td>
</tr>
<tr>
<td><strong>Airflow rate</strong></td>
<td>m³/h</td>
<td>3,800</td>
<td>6,600</td>
<td>10,000</td>
<td>10,000</td>
<td></td>
</tr>
<tr>
<td><strong>Sound pressure level</strong></td>
<td>dB(A)</td>
<td>33</td>
<td>34</td>
<td>35</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td><strong>Input power</strong></td>
<td>W</td>
<td>490</td>
<td>550</td>
<td>580</td>
<td>680</td>
<td></td>
</tr>
<tr>
<td><strong>Pipe diameter</strong></td>
<td>6.35</td>
<td>6.35</td>
<td>6.35</td>
<td>6.35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.

- **Cooling**: Indoor temperature of 27°C (80°F), and outdoor temperature of 35°C (95°F).
- **Heating**: Indoor temperature of 20°C (68°F), and outdoor temperature of 7°C (45°F).

Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

When ASY*004GTAH, ASY*007GTAH, and ASY*009GTAH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.