## Light Commercial & Commercial, Residential

# VRF

VRF systems provide air conditioning solutions that meet the requirements of a diverse range of buildings.

VRF systems provide air conditioning solutions for large residences as well as large commercial buildings.





# VRF

Light Commercial
& Commercial,
Residential



FUJITSU GENERAL LIMITED

# VRF Series Overview

Recommended VRF products for various buildings


**RESIDENTIAL** | **LIGHT COMMERCIAL** | **COMMERCIAL**

## VRF J-VS

### Maximum 6 HP Heat Pump

REFRIGERANT R32

This product uses R32, a new environmentally friendly refrigerant. With TOP-class energy efficiency and compact design, it can be installed in a limited and narrow space without being conspicuous. Indoor unit connectable up to 130%.

- Sustainable(R32)
- Saving CO2
- Small Body
- Situational Piping Design
- Sightliness installation

Page V-020

## VRF J-IVS

### Maximum 6 HP Heat Pump

REFRIGERANT R410A

The 998 mm compact design does not obstruct the view even when installed underneath a waist-high window, ideal for large houses and retail stores. Indoor unit connectable up to 130%.

- Spaces saving and low sound level design
- Flexible system configuration for homes, stores, and small buildings

Page V-026

## VRF J-IV

### Maximum 6 HP Heat Pump

REFRIGERANT R410A

J-IV is connectable with up to 14 indoor units (Indoor unit connectable up to 150%) making it suitable for commercial facilities housing a number of small stores.

- High energy efficiency
- Flexible system configuration for small and midsize buildings

Page V-030

## VRF J-IVL

### Maximum 18 HP Heat Pump

REFRIGERANT R410A

J-IVL is an outdoor unit with a slim design. Its flexibility in installation makes it ideal for midsize office buildings and hotels. With the newly added 14/16/18 HP models, up to 42 indoor units* are connectable, making them ideal for hotels and educational facilities with many rooms.

- Slim Outdoor Unit
- Small room application
- Class-leading Low Operating Sound

Page V-034

## VRF VR-IV

### Maximum 48 HP Heat Recovery

REFRIGERANT R410A

Smart, cutting-edge design
Extensive lineup from 8 HP to 48 HP with the capacity ratio of indoor units connectable up to 150%.

- Simultaneous cooling and heating operation using a single refrigerant system
- Annual cooling operation
- Accommodating changes in temperature difference

Page V-040

## VRF V-IV

### Maximum 48 HP Heat Pump

REFRIGERANT R410A

Smart, cutting-edge design
Available in a wide range of models from 8 to 48 HP in 2 HP increments with the capacity ratio of indoor units connectable up to 150%.

- Excellent energy saving
- High design flexibility for placement in any building
- Easy installation and maintenance

Page V-050

### Design Simulator

When installing air conditioning equipment in each room of a building, it is necessary to select an indoor unit suitable for the heat load in the room and derive an outdoor unit that can cover the capacity of all indoor units. In addition, remote controls and converters are selected according to how the customer will manage the air conditioner, and in some cases, a design combined with options may be required to comply with established standards. The “Design Simulator” can be used to facilitate the selection of such complex equipment and the output of system drawings and estimates. (Software for PC)

For more information

# VRF Outdoor Units Lineup

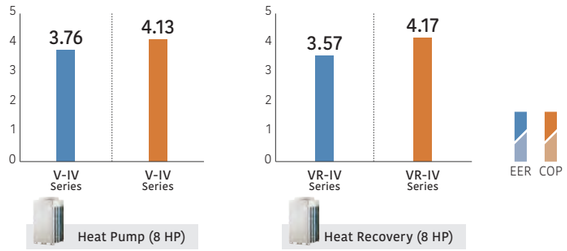
| Capacity (kW) | | Refrigerant | 12.1 | 14.0 | 15.1-15.5 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0-50.4 | 55.9 | 61.5 | 67.0 | 73.5 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 107.0 | 112.0 | 118.5 | 123.5 | 130.0 | 135.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HP | | | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
| **J-VS Series** | | R32 | AJY040 KCTAH | AJY045 KCTAH | AJY054 KCTAH | | | | | | | | | | | | | | | | | | | | | |
| **J-IVS Series** | | R410A | AJY040 LCLDH | AJY045 LCLDH | AJY054 LCLDH | | | | | | | | | | | | | | | | | | | | | |
| **J-IV Series** | | R410A | AJY040 LBLDH, AJY040 LELDH | AJY045 LBLDH, AJY045 LELDH | AJY054 LBLDH, AJY054 LELDH | | | | | | | | | | | | | | | | | | | | | |
| **J-IVL Series** | | R410A | | | | AJY072 LELDH | AJY090 LELDH | AJY108 LELDH | AJY126 LELDH | AJY144 LELDH | AJY162 LELDH | | | | | | | | | | | | | | | |
| **VR-IV Series Heat Recovery** | Space Saving Set Model | R410A | | | | AJY072 GALDH | AJY090 GALDH | AJY108 GALDH | AJY126 GALDH | AJY144 GALDH | AJY162 GALDH | AJY180 GALDH | AJY198 GALDH | AJY216 GALDH | AJY234 GALDH | AJY252 GALDH | AJY270 GALDH | AJY288 GALDH | AJY306 GALDH | AJY324 GALDH | AJY342 GALDH | AJY360 GALDH | AJY378 GALDH | AJY396 GALDH | AJY414 GALDH | AJY432 GALDH |
| | Energy Efficiency Set Model | R410A | | | | | | | | AJY144 GALDHH | | | AJY198 GALDHH | AJY216 GALDHH | AJY234 GALDHH | AJY252 GALDHH | AJY270 GALDHH | AJY288 GALDHH | AJY306 GALDHH | AJY324 GALDHH | AJY342 GALDHH | AJY360 GALDHH | AJY378 GALDHH | AJY396 GALDHH | | |
| **V-IV Series Heat Pump** | Space Saving Set Model | R410A | | | | AJY072 LALDH | AJY090 LALDH | AJY108 LALDH | AJY126 LALDH | AJY144 LALDH | AJY162 LALDH | AJY180 LALDH | AJY198 LALDH | AJY216 LALDH | AJY234 LALDH | AJY252 LALDH | AJY270 LALDH | AJY288 LALDH | AJY306 LALDH | AJY324 LALDH | AJY342 LALDH | AJY360 LALDH | AJY378 LALDH | AJY396 LALDH | AJY414 LALDH | AJY432 LALDH |
| | Energy Efficiency Set Model | R410A | | | | | | | | AJY144 LALDHH | | AJY180 LALDHH | | AJY216 LALDHH | AJY234 LALDHH | AJY252 LALDHH | AJY270 LALDHH | AJY288 LALDHH | AJY306 LALDHH | AJY324 LALDHH | AJY342 LALDHH | AJY360 LALDHH | AJY378 LALDHH | AJY396 LALDHH | | |

# Features

## High-efficiency

High-efficiency is achieved significantly by the use of a DC twin-rotary compressor, inverter technology, and a large heat exchanger.

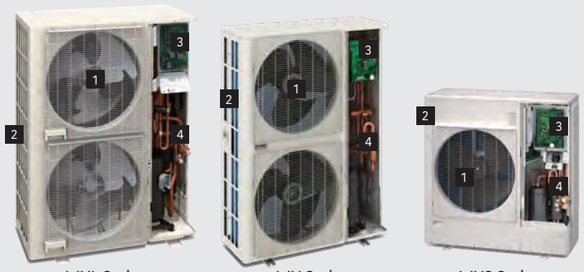
DC twin-rotary compressor




* These specifications are determined by ducted combination.

### High-efficiency design with top-class SEER/SCOP

All the VRF Series, including the J-IVL Series, have DC technology to achieve high-efficiency operation. This enhances the durability and reliability of the VRF Series.




J-IVL Series J-IV Series J-IVS Series


V Series

1 DC fan motor

3 DC invertor control



2 Large heat exchanger



4 Subcooling heat exchanger

1 3-phase DC fan motor

3 Sine-wave DC invertor control

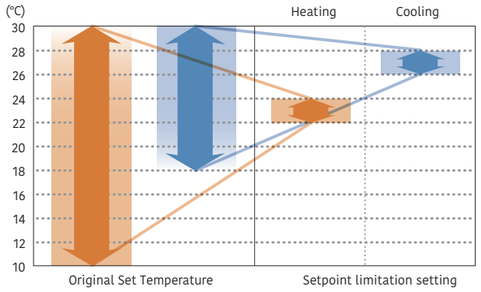
2 Large heat exchanger

4 Subcooling heat exchanger

# Efficient control of operation

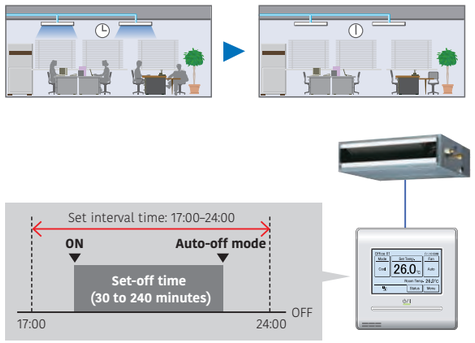
## Setting temperature range limitation

Sets the minimum and maximum limits on room temperature to establish an optimum balance between energy-saving performance and a comfortable environment.



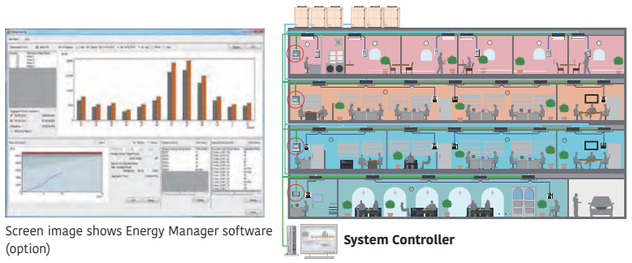

## Auto-off timer

The wired remote controller is equipped with an auto-off timer function that automatically stops operation after a fixed period of time has elapsed from the start of operation to avoid wasting energy. The function also allows you to set the interval for stopping operations.




## Energy-saving management

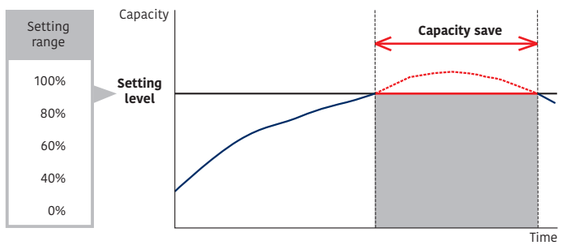
A variety of energy-saving operations can be set and managed depending on the season, climate, and time period. Excellent energy-saving operation using the system controller.




Screen image shows Energy Manager software (option)

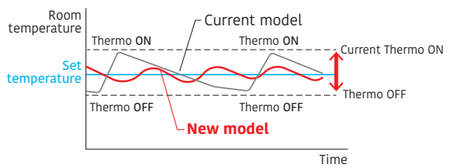
## Capacity-saving mode

Operation capacity can be reduced in 5 steps from the rated capacity. This mode cuts down on peak power consumption and eases the maximum load on the unit.



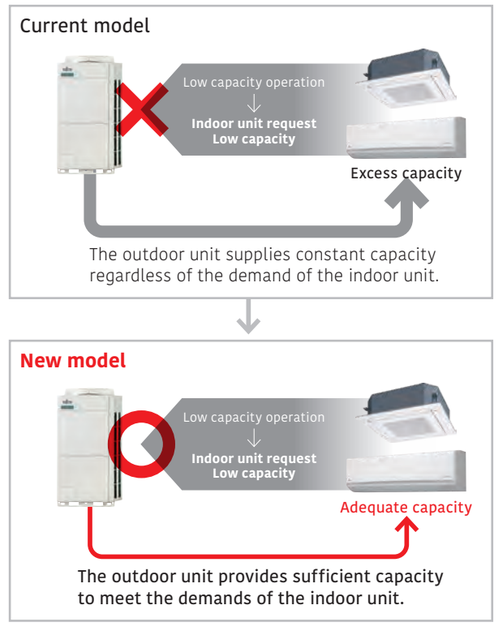

## Intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with subtle control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.




**Current refrigerant control**
Thermostat-ON/OFF occurs frequently.
→ Frequent changes in room temperature interfere with comfort. The compressor starts and stops repeatedly, wasting energy.

**New refrigerant control**
The thermostat is turned on and off less frequently than under current control to maintain the room temperature at the target temperature. Compared to current control, the compressor will run longer, thus saving energy.

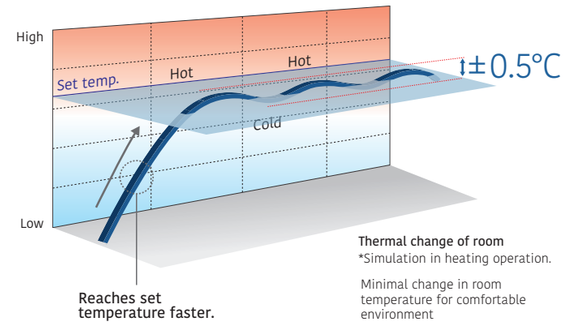



* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

# More Comfort

## Precise control of refrigerant flow

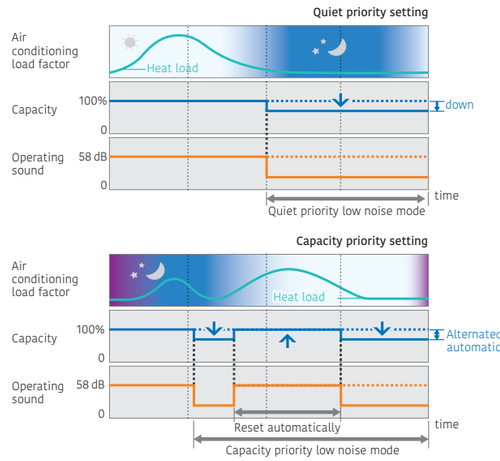
The combination of DC inverter control and individual control of electronic expansion valves of an indoor unit enables precise and smooth control of the refrigerant flow. This means the room temperature can be set in increments of 0.5°C.




# Quiet operation

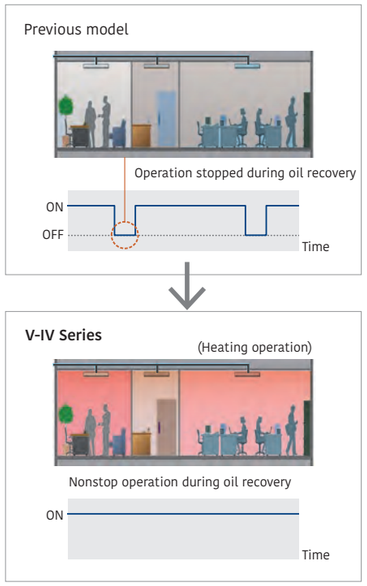
## Quiet operation

Two low noise modes can be switched over automatically between one in which low noise is prioritized over performance, and the other in which performance is prioritized over low noise, depending on the room temperature and outdoor temperature. This feature can be controlled by external input from the outdoor unit or a system controller.



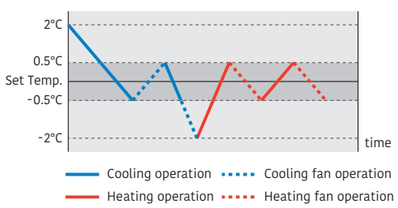

## Non-stop oil recovery operation

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



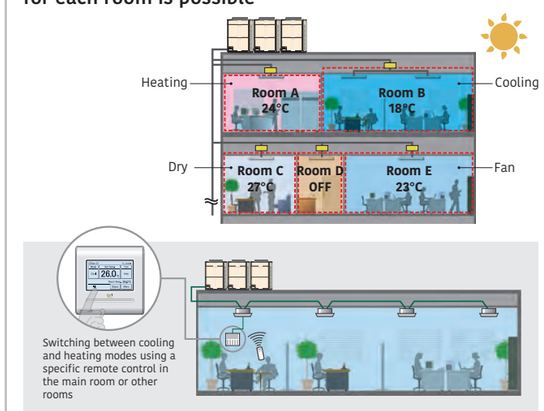

## Auto changeover

In Auto setting, the air conditioner switches between cooling and heating modes automatically according to the set temperature and the room temperature.




Auto changeover settings enable the indoor unit to easily switch between cooling and heating regardless of the operating mode of other indoor units. These settings can be made using a wired remote controller for a specific indoor unit. Provides a comfortable environment all year round.

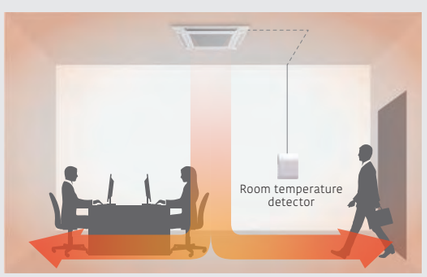
### Automatic cooling/heating operation for each room is possible




## Switching room temperature sensing position for improved heating comfort (Option)

The optional remote sensor kit (UTY-XSZXZ1) can be connected to the indoor unit to improve comfort by installing the unit at a height appropriate for the living environment.

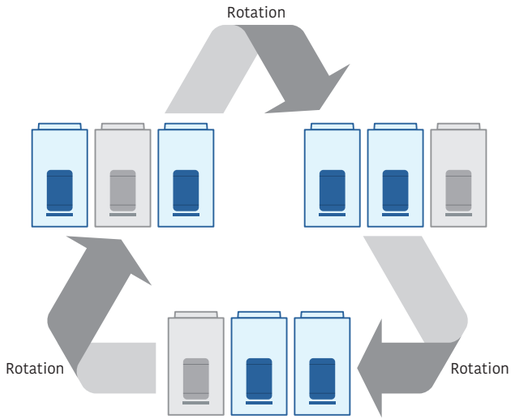
Connectable products

# **High** Reliability

## Outdoor unit rotation

The compressor starting order is rotated to equalize the cumulative running time of each unit.

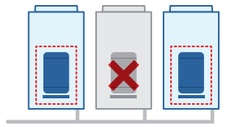



The start and stop timings are alternated among connected compressors.

### Backup operation

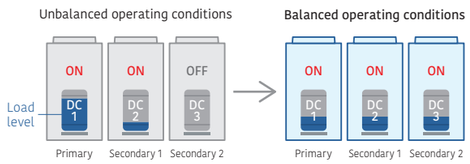
If one compressor fails, the other compressors will initiate backup operation*.

Note: Backup operation may not be possible depending on the cause of failure.



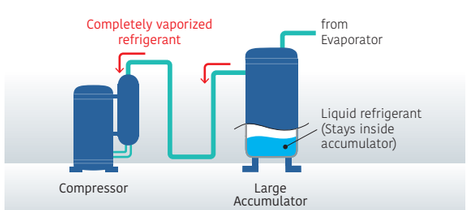
### Advanced refrigerant control

Compressor control logic controls the inverter speed to balance the mass airflow rate of refrigerant in each outdoor unit.



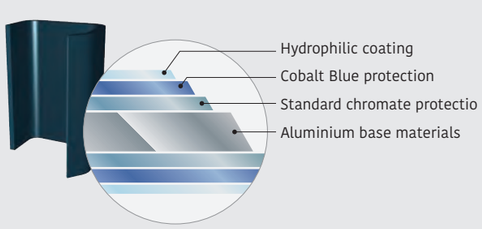

### Protection against liquid flowback

The use of a large accumulator means that refrigerant that has not been completely vaporized stays inside the accumulator to ensure no liquid refrigerant is fed into the compressor.




### Blue fin heat exchanger

The anti-corrosion blue fin treatment is applied to the heat exchanger of the outdoor unit.




# **Design** Flexibility

## Class-leading compact design

An industry-leading compact outdoor unit with optimal airflow pattern design. (Up to 18 HP)

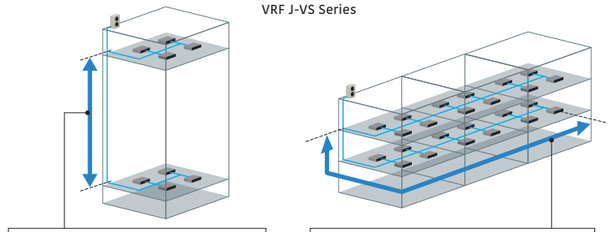
VRF J Series Compact Outdoor Unit

J-VS J-IVS J-IV J-IVL J-IVL High-capacity model

## Long pipe design

Pipe design suitable for long and narrow office buildings with elevation differences and low-rise stores with long distances
(VRF J-IVL Series)

VRF J-VS Series



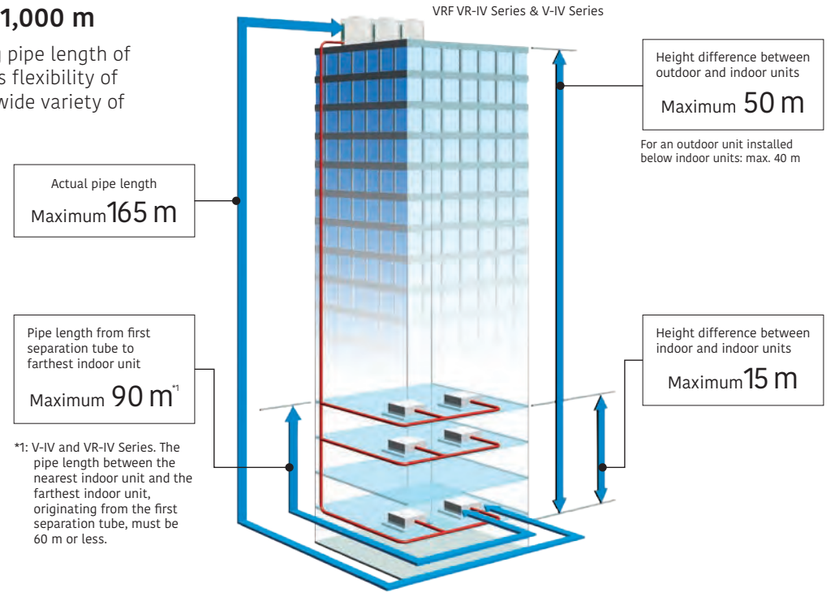
Height difference between indoor and indoor units on different floors **Maximum 50 m**

Pipe length from first separation tube to farthest indoor unit **Maximum 120 m**

## Max. allowable overall pipe length: 1,000 m

The class-leading pipe length of 1,000 m increases flexibility of installation in a wide variety of buildings.

VRF VR-IV Series & V-IV Series



Actual pipe length **Maximum 165 m**

Pipe length from first separation tube to farthest indoor unit **Maximum 90 m**[*1]

Height difference between outdoor and indoor units **Maximum 50 m**

For an outdoor unit installed below indoor units: max. 40 m

Height difference between indoor and indoor units **Maximum 15 m**

*1: V-IV and VR-IV Series. The pipe length between the nearest indoor unit and the farthest indoor unit, originating from the first separation tube, must be 60 m or less.

## High-capacity connection

| Series | | Connectable indoor unit capacity range | Connectable indoor units |
|---|---|---|---|
| | VRF J-VS Series Heat pump type | 50% to 130% | up to 13[*5] |
| | VRF J-IVS Series Heat pump type | 50% to 130% | up to 13[*5] |
| | VRF J-IV Series Heat pump type | 50% to 150% | up to 14[*5] |
| | VRF J-IVL Series 14/16/18 HP Heat pump type | 50% to 150% | up to 42[*3] |
| | VRF J-IVL Series 8/10/12 HP Heat pump type | 50% to 150% | up to 30[*4] |
| | VRF VR-IV Series Heat Recovery Modular type | 25%[*5] to 150% | up to 64 |
| | VRF V-IV Series Heat Pump Modular type | 50% to 150%[*2] | up to 64 |

*2: The maximum capacity of the combination that includes the 18-HP outdoor unit is below 150%.
*3: J-IVL Series 18-HP model only.
*4: J-IVL Series 12-HP model only.
*5: 6-HP model only.

## Designed for low refrigerant charge

The optimal design of the indoor and outdoor units reduces the amount of refrigerant required and can be easily installed in a room as small as 15 m².


## Various optional parts

- Fresh air intake kit to bring in fresh air
- Comfortable temperature control with a remote sensor
- DX kit links ventilation equipment and air handling units.


Fresh air intake kit

EEV unit

Control unit

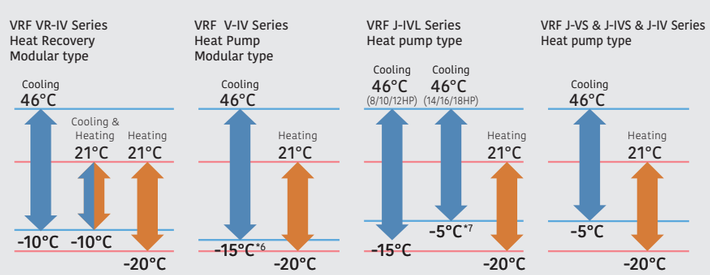
## Low ambient operation

Our refrigeration cycle technology enables cooling operation even at -15°C.

## Wide operating temperature range

All outdoor units have a wide operating temperature range and can operate in extreme temperature conditions.

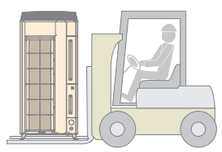
*6: When multiple outdoor units are connected, their operating temperature range is from -5°C to 46°C in cooling.
*7: The operating range is -15°C to 46°C only for systems with all indoor units rated at 5.6 kW or more.



# Easy Installation

## Easily transported

**A lifting strap can be hooked onto an outdoor unit**
Design of outdoor unit allows for lifting straps to be used

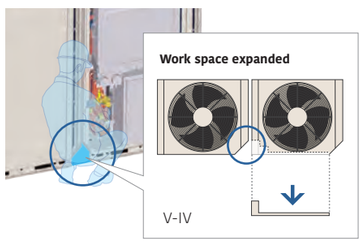


**Transportable by forklift**
The outdoor unit can be lifted and transported by forklift.

**Fits into a small elevator.**

## Easy access

The removable L-shaped front panel provides more room for installation and service work. Multiple installations can be performed easily and efficiently even in tight spaces.

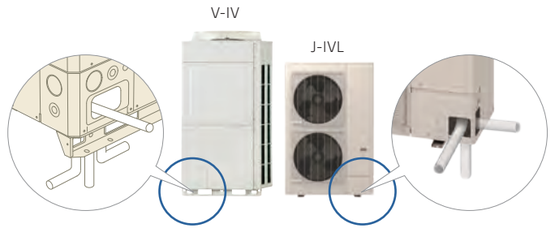




Front access reduces installation intervals

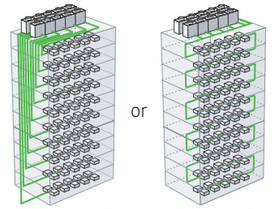
## Flexible pipe connection

Piping and wiring can be accessed from the front, left, right, and bottom.




## Simplified wiring work

The communication wiring can be installed seamlessly among indoor, outdoor, and RB units, which makes the installation of the wiring system easier.

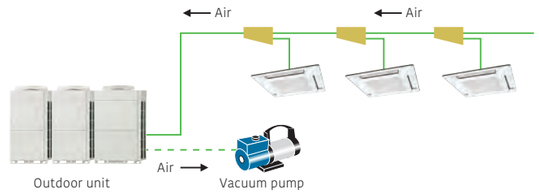



Maximum wiring length:
**3,600 m**

Note: The automatic address setting is not available on a serially connected multiple refrigerant system.

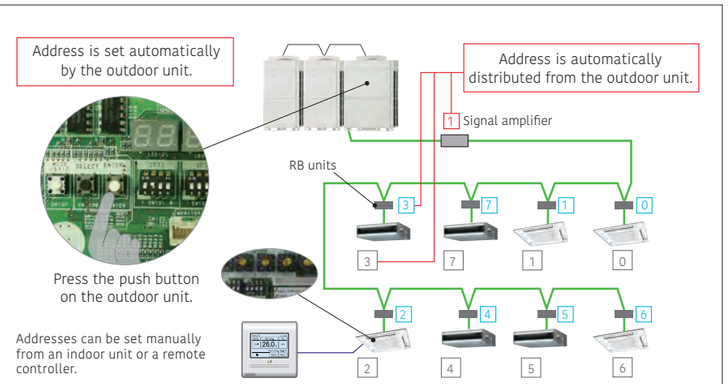
## Vacuum mode function for easy evacuation

The vacuum mode function enables all expansion valves of an indoor unit to be opened fully, allowing for easier evacuation of air inside pipe lines and indoor units.




## Automatic address setting

Addresses of connected indoor units, RB units, and Signal amplifier can all be set automatically from the PCB in the outdoor unit.




## Easy commissioning with Tools

- Service Tool (UTY-ASGXZ1)

The Service Tool checks the refrigerant temperature and pressure, and the operating status of the electronic expansion valves, making it easy to determine if the units are connected properly.

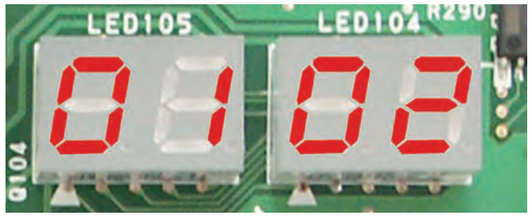
- Central Remote Controller (UTY-DCGGZ3)

After the VRF system has been installed. Conveniently, the “test run” required to verify proper system operation can be performed from a nearby Central RC.

# **Easy** Service and Maintenance

## Designed for easy maintenance

A 7-segment indicator lamp panel provides detailed information on the function setting status, refrigerant temperature and pressure, compressor operation time, and other factors, facilitating self-diagnosis for each unit.

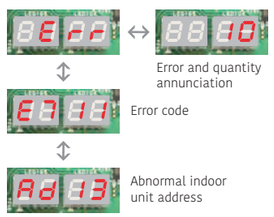



### Easy-to-read 7-segment indicator lamp

Shows the following detailed operation and error status without need of any special tools.

### Error status can be checked on an outdoor unit's display

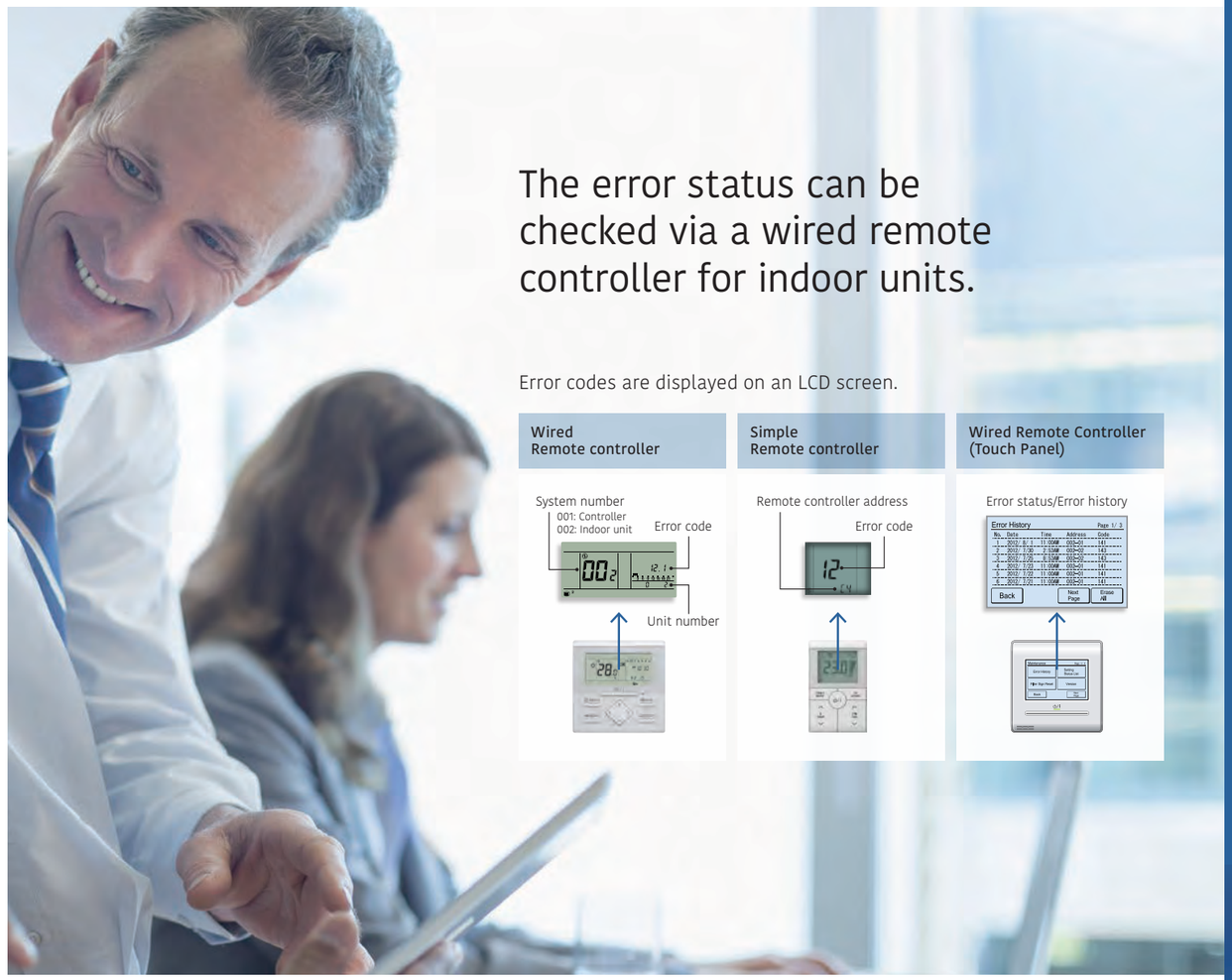
- System operation mode
- Discharge temperature and pressure
- Compressor operation status
- Address, type, and number of outdoor unit




- Error status can easily be checked on an outdoor unit's display.

### Movable PCB panel

Enables easier access behind the PCB for maintenance work.



The error status can be checked via a wired remote controller for indoor units.

Error codes are displayed on an LCD screen.

**Wired Remote controller**




**Simple Remote controller**



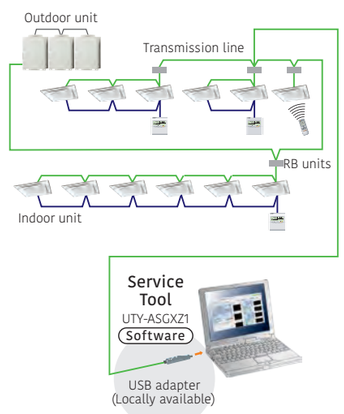

**Wired Remote Controller (Touch Panel)**




## Error diagnosis by Service tool

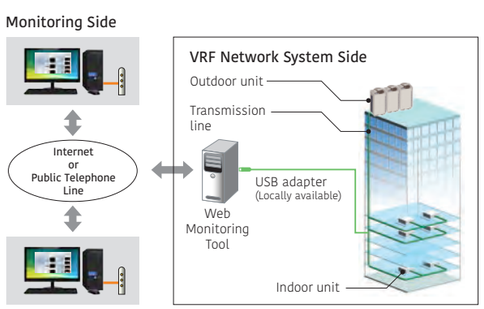
### Connection to Service tool

- A detailed operation status and recent error history can be checked and analyzed using Service tool.
- The last 5 minutes of operation status can be recorded continuously.




## Remote monitoring

The Web Monitoring system enables the monitoring of the system's operation status at any time via the internet to ensure trouble-free operation.
The operating VRF network system in the building can be monitored real time over the internet.



REFRIGERANT R32

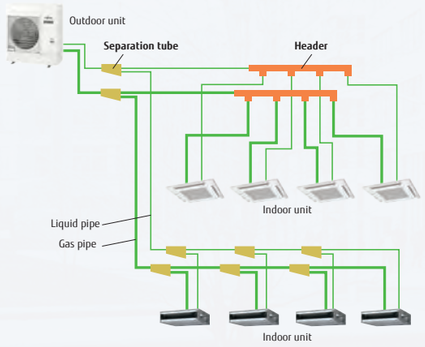
# Heat Pump

for Small-capacity type

# VRF J-VS

**System configuration example**

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.







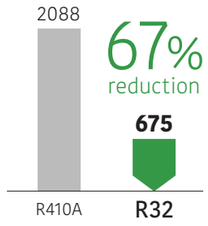

Outdoor unit

REFRIGERANT R32

## R32 refrigerant with reduced global warming potential

- **Zero** Ozone Depletion Potential (ODP*1)
- High environmental properties
- High performance
- Economically efficient

GWP*2 (Reference: IPCC 4th Report)




*1 **ODP (Ozone Depleting Potential):** a relative value that indicates the impact per unit weight of ozone-depleting substances released into the atmosphere when CFC-11 (trichlorofluoromethane, CCl3F) is fixed at 1.0

*2 **GWP (Global Warming Potential):** a measurement that indicates how much other greenhouse gases are capable of warming the Earth based on carbon dioxide This is the integrated value of radiant energy given to the Earth (i.e., the estimated impact on global warming) expressed as a ratio to CO2.

# Sustainable

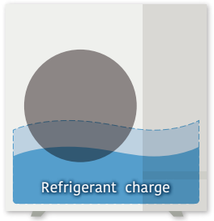
## European F-Gas Regulation Plan

The European Union has tightened F-gas rules as part of European Green Deal policy, which aims for Europe climate neutral by 2050.
The F-gas Regulation mainly includes
(1) Reducing the total volume of HFCs and phasing out HFC in 2050.
(2) The GWP limits for certain products are required to be strengthened.
Fujitsu General as one of its proactive efforts to preserve the global environment, we are working on technological development to achieve the best balance between refrigerants with lower GWP and energy efficiency of equipment adopting safety measures.

| 2029 Available at J-VS | 2033 | 2035 | 2050 |
|---|---|---|---|
| Split AC & HP<br>**Over 12 kW:**<br>GWP 750 and above prohibited<br>**12 kW or less:**<br>GWP 150 and above prohibited | Split AC & HP<br>**Over 12 kW:**<br>GWP 150 and above prohibited | Split AC & HP<br>HFC use prohibited | an economy with<br>**net-zero** greenhouse gas emissions. |

## Refrigerant saving design

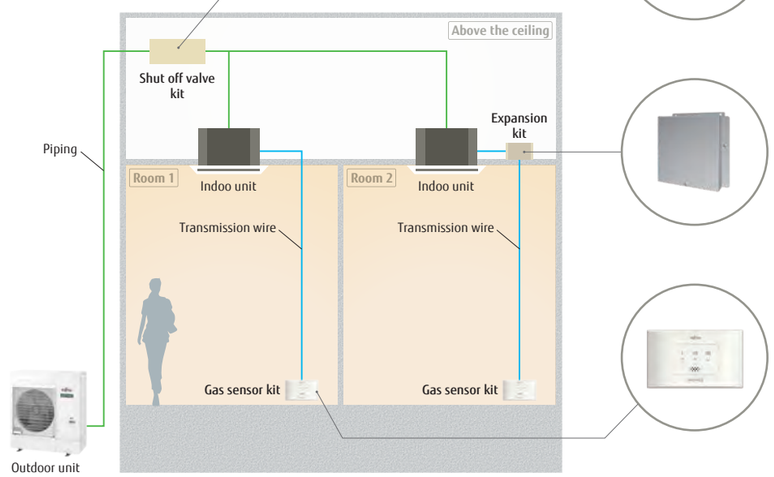
Refrigerant saving design the compact indoor unit, piping design, and optimization of heat exchanger volume significantly reduce the system refrigerant volume.




Refrigerant charge
-32%
*From current model

## Enhanced disaster safety measures

The system is designed to meet the environmental safety requirements specified in the IEC 603352-40 standard for the use of R32 refrigerant. The environment requiring safety measures is determined by the size of the room in relation to the amount of refrigerant required. For example, if the system is designed for maximum pipe length and the refrigerant charge is 6 kg, safety measures are required for rooms of 15 m2 or less.




**Shut off valve kit**
UTP-GX027A, UTP-GX060A
Block the path to prevent refrigerant flow in the event of a refrigerant leakage.



**Expansion kit**
UTZ-JXXA
Used to ensure standards compliance and safety when R32 VRF products are installed.
*Please refer to the manuals for details of the system design.required.



**Gas sensor kit**
UTY-SGZY*
Gas Sensor kit Used to ensure standards compliance and safety when R32 VRF products are installed.
*External connect kit (UTY-XWZXZL) is required.





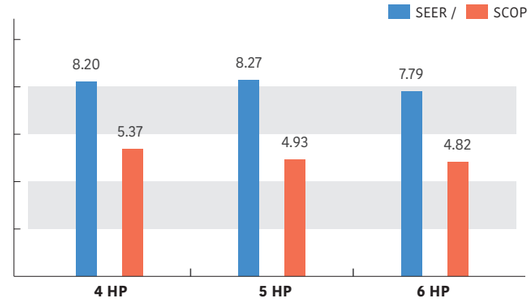
# Saving CO2

## TOP Class High Energy Saving

The use of large heat exchanger and a high-efficiency Rotary compressor achieves class-leading SEER/SCOP in all models.

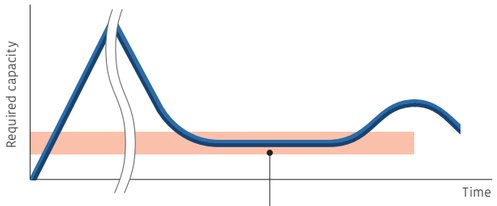
SEER **8.27** *045 model

SCOP **5.37** *040 model




## More Energy-Saving compressor control

When the room temperature approaches the set temperature after the start of operation, the capacity required for the outdoor unit becomes lower. The minimum compressor speed at this time can now be controlled at a lower value than with conventional products, enabling more energy-efficient operation.

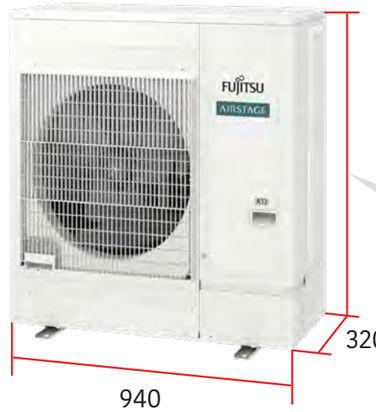



Can be operated at a lower rps than the current model.

Minimum,
15 rps
Low power consumption

# Small Body

## Easy to carry, easy to install




Light
74kg

Height difference
998mm

## Small, lightweight outdoor unit

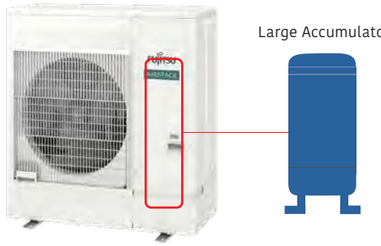
The outdoor units in this series are much more compact than conventional outdoor units of comparable capacity. They can be installed on a balcony, fitting below the height of the railing. With a height of less than 1 m, they can be installed in tight spaces such as under windows.

# **Situational** Piping Design

## Long pipe length

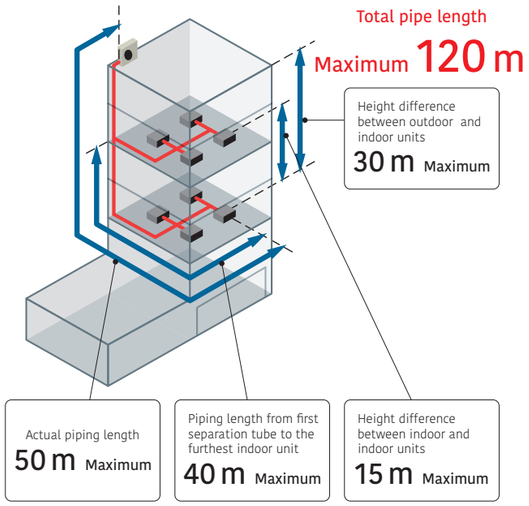
Our advanced refrigerant control technology extends the maximum allowable length of refrigerant piping to 120 m. This provides high flexibility in system design.

Long piping lengths are achieved by installing a large-capacity accumulator. No liquid refrigerant is supplied to the compressor even when the required amount of refrigerant is charged in the long piping.



Large Accumulator






## Up to 13 indoor units* can be connected

The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 13 indoor units, which is the best in its class.

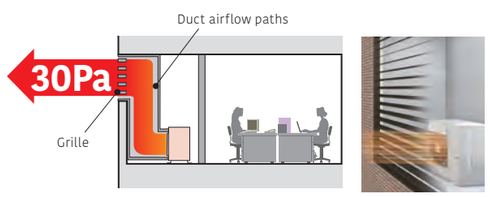
*: 6 HP model

| Rating Capacity range (HP) | 4 | 5 | 6 |
|---|---|---|---|
| Max. Connectable indoor unit | 1-11 | 1-12 | 1-13 |

# **Sightliness** installation

## External static pressure

External static pressure measures up to 30 Pa for 4/5/6 HP models.
Even if the outdoor unit is installed in a small space to hide it, the grille and duct airflow path required for exhaust air can be installed up to a static pressure value of 30 Pa.






## Cooling piping system

New Heat Rejection Technology Cooling piping system “Cooling piping system” is adopted to ensure reliability in high outside air.
Even when the outdoor unit is installed in an environment where heat tends to stay (small space), the cooling system using refrigerant can reduce damage caused by heat from PCBs.





**4, 5, 6 HP: AJY040KCTAH / AJY045KCTAH / AJY054KCTAH**

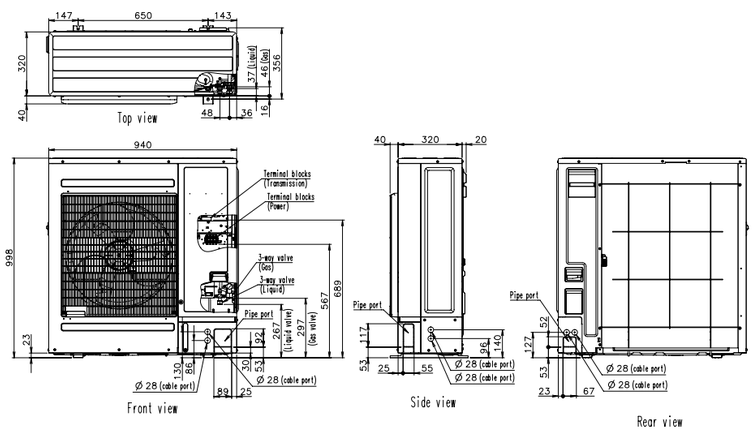
## Specifications

| Rated capacity range | | HP | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Model name | | | AJY040KCTAH | AJY045KCTAH | AJY054KCTAH |
| Maximum connectable indoor units | | | 1-11 | 1-12 | 1-13 |
| Power source | | | Single phase, ~230 V, 50 Hz | | |
| Capacity | Cooling | kW | 12.1 | 14.0 | 15.1 |
| | Nominal Heating | | 12.1 | 14.0 | 15.1 |
| | Max. Heating | | 13.6 | 16.0 | 16.5 |
| Input power | Cooling | kW | 3.15 | 3.82 | 4.48 |
| | Nominal Heating | | 2.55 | 2.91 | 3.20 |
| | Max. Heating | | 3.09 | 3.62 | 3.90 |
| EER | Cooling | W/W | 3.84 | 3.66 | 3.37 |
| COP | Nominal Heating | | 4.74 | 4.80 | 4.71 |
| | Max. Heating | | 4.40 | 4.41 | 4.22 |
| SEER | Cooling | | 8.20 | 8.27 | 7.79 |
| SCOP | Heating | | 5.37 | 4.93 | 4.82 |
| ηc | Cooling | % | 325.0 | 328.0 | 308.6 |
| ηh | Heating | | 212.0 | 194.0 | 189.8 |
| Airflow rate | | $m^3/h$ | 4,240 | 4,450 | 4,450 |
| Sound pressure level/ Power level | Cooling | dB(A) | 52 / 70 | 53 / 71 | 54 / 72 |
| | Heating | | 54 / 71 | 55 / 72 | 56 / 73 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 998 | 998 | 998 |
| | Width | | 940 | 940 | 940 |
| | Depth | | 320 | 320 | 320 |
| Weight | | kg | 74 | 74 | 74 |
| Refrigerant | Type (Global Warming Potential) | | R32 (675) | R32 (675) | R32 (675) |
| | Charge | kg (CO2eq-T) | 2.7 (1.823) | 2.7 (1.823) | 2.7 (1.823) |
| Connection pipe diameter | Liquid | mm | 9.52 | 9.52 | 9.52 |
| | Gas | | 15.88 | 15.88 | 15.88 |
| Total pipe length | | m | 120 | 120 | 120 |
| Max. height difference | | | 30 | 30 | 30 |
| Operating Range | Cooling | °C | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 |

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 protective function may work when using it outside the operation range.

## Dimensions

(Unit: mm)



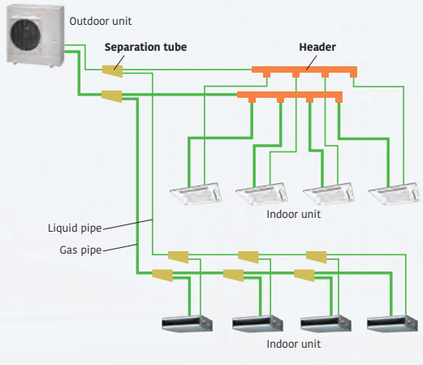
REFRIGERANT R410A

# Heat Pump
for Small-capacity type

# VRF J-IVS

### System configuration example

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.

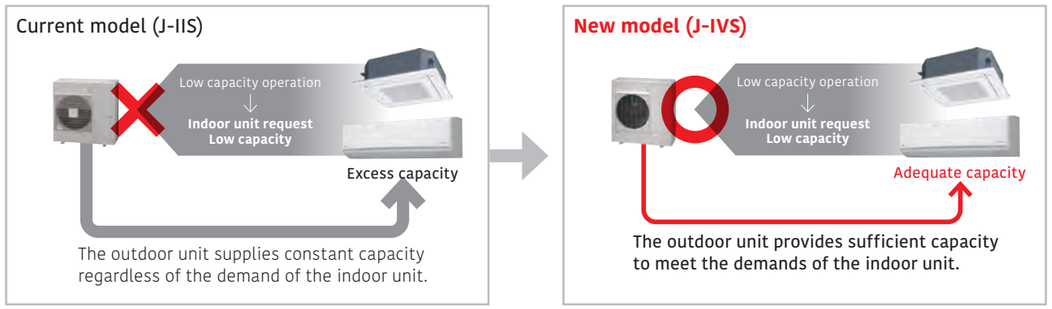







## New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function.
The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.




* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

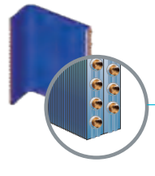
### External static pressure

External static pressure measures up to 25 Pa for 4/5/6 HP models.


## Advanced high-efficiency technology

### Large propeller fan
A large propeller fan with an optimized blade angle achieves both high performance and low noise operation.

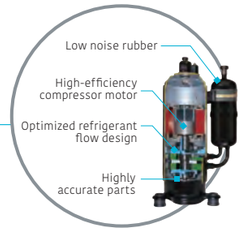
### DC fan motor
A small, multi-stage DC fan motor provides high-efficiency and low noise operation.



### Large heat exchanger
The large 3-row heat exchanger substantially improves heat-exchanging performance.

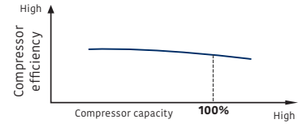
High heat-transfer copper tube (Improved lead angle)

### DC inverter control
The active filter module improves efficiency.

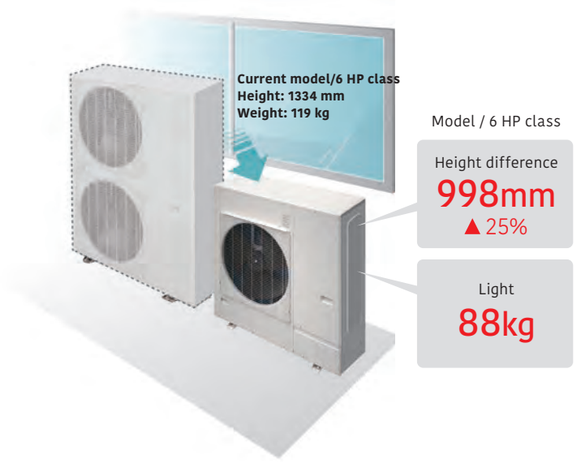



### Compact and high-performance DC twin-rotary compressor

High-efficiency is achieved across compressor loads. Especially good performance is achieved in the low- to medium-load range.



## Easy to carry, easy to install




## Small, lightweight outdoor unit

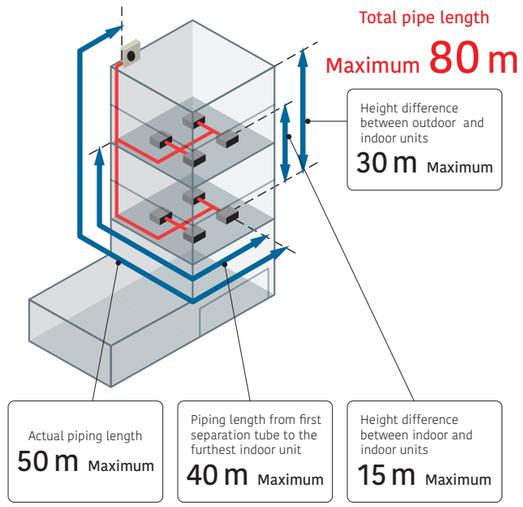
The outdoor units in this series are much more compact than conventional outdoor units of comparable capacity. They can be installed on a balcony, fitting below the height of the railing. With a height of less than 1 m, they can be installed in tight spaces such as under windows.

### Low noise design

Significantly low noise levels are achieved by the use of a DC twin-rotary compressor, inverter technology, and an advanced airflow pattern design.

## Long pipe length

Our advanced refrigerant control technology extends the maximum allowable length of refrigerant piping to 80 m. This provides high flexibility in system design.




## Up to 13 indoor units* can be connected

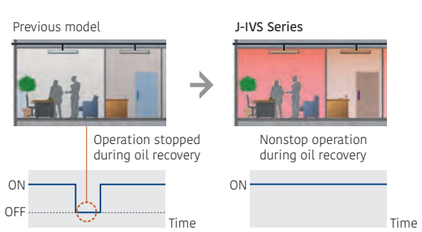
The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 13 indoor units, which is the best in its class.

*: 6 HP model

| Model | Current model (J-IIS) | | | New model (J-IVS) | | |
|---|---|---|---|---|---|---|
| Rating Capacity range (HP) | 4 | 5 | 6 | 4 | 5 | 6 |
| Max. Connectable indoor unit | 1-7 | 1-8 | 1-8 | 1-11 | 1-12 | 1-13 |

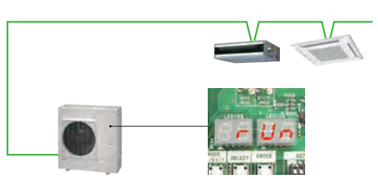
## Non-stop oil recovery operation

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




## Easier installation

**Connection check function**: Wiring connections and address settings can be checked thanks to the quick check run function.



- Displays the number of each connected indoor unit.
- Displays the duplicate address number assigned to an indoor unit.





**4, 5, 6 HP: AJY040LCLDH / AJY045LCLDH / AJY054LCLDH**

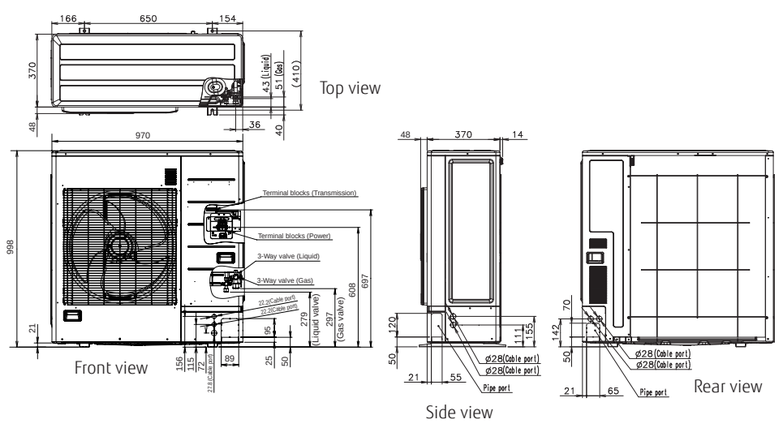
### Specifications

| Rated capacity range | | HP | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Model name | | | AJY040LCLDH | AJY045LCLDH | AJY054LCLDH |
| Maximum connectable indoor units | | | 1-11 | 1-12 | 1-13 |
| Power source | | | Single phase, ~230 V, 50 Hz | | |
| Capacity | Cooling | kW | 12.1 | 14.0 | 15.1 |
| | Nominal Heating | | 12.1 | 14.0 | 15.1 |
| | Max. Heating | | 13.6 | 16.0 | 16.5 |
| Input power | Cooling | kW | 3.75 | 4.71 | 5.55 |
| | Nominal Heating | | 3.22 | 3.77 | 4.33 |
| | Max. Heating | | 3.99 | 5.04 | 5.32 |
| EER | Cooling | W/W | 3.22 | 2.97 | 2.72 |
| COP | Nominal Heating | | 3.75 | 3.71 | 3.48 |
| | Max. Heating | | 3.40 | 3.17 | 3.10 |
| SEER | Cooling | | 5.83 | 5.58 | 5.47 |
| SCOP | Heating | | 3.82 | 3.96 | 3.99 |
| ηc | Cooling | % | 230.2 | 220.2 | 215.8 |
| ηh | Heating | | 149.8 | 155.4 | 156.6 |
| Airflow rate | | $m^3/h$ | 4,240 | 4,400 | 4,400 |
| Sound pressure level/ Power level | Cooling | dB(A) | 53 / 67 | 53 / 69 | 54 / 70 |
| | Heating | | 54 / 68 | 56 / 69 | 56 / 70 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 998 | 998 | 998 |
| | Width | | 970 | 970 | 970 |
| | Depth | | 370 | 370 | 370 |
| Weight | | kg | 88 | 88 | 88 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg (CO2eq-T) | 4.0 (8.4) | 4.0 (8.4) | 4.0 (8.4) |
| Connection pipe diameter | Liquid | mm | 9.52 | 9.52 | 9.52 |
| | Gas | | 15.88 | 15.88 | 15.88 |
| Total pipe length | | m | 80 | 80 | 80 |
| Max. height difference | | | 30 | 30 | 30 |
| Operating Range | Cooling | °C | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 |

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 protective function may work when using it outside the operation range.

### Dimensions

(Unit: mm)



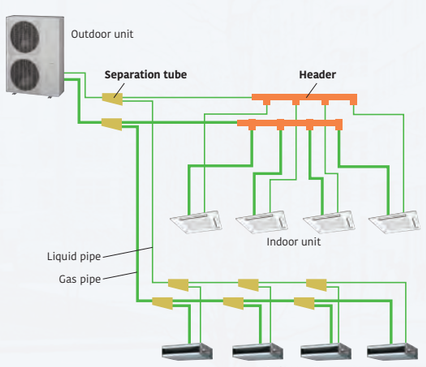
REFRIGERANT R410A

# Heat Pump
for Small-capacity type

# VRF J-IV

**System configuration example**

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.

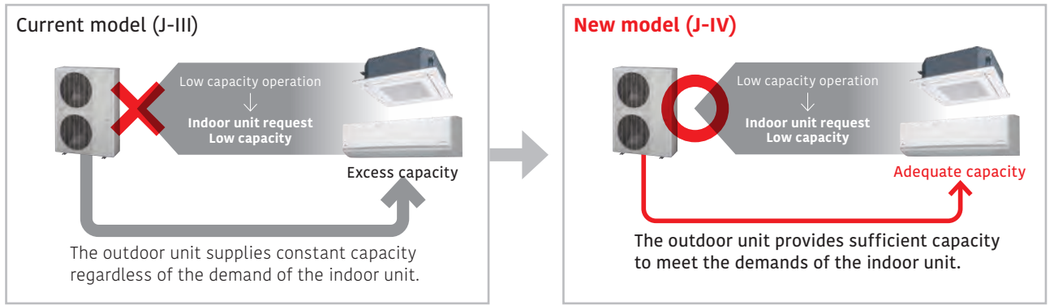







## **New** intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function.
The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.




* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

### External static pressure

External static pressure measures up to 30 Pa for 4/5/6 HP.


## Advanced high-efficiency technology

### Large propeller fan
A large propeller fan with an optimized blade angle achieves both high performance and low noise operation.

### DC fan motor
A small, multi-stage DC fan motor contributes to high-efficiency and low noise operation.

### Large heat exchanger
The large 3-row heat exchanger substantially improves heat-exchanging performance.

### DC inverter control
The active filter module improves efficiency.

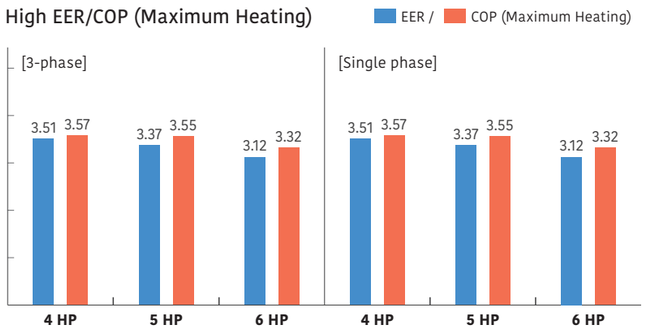
### Subcooling heat exchanger
The dual-tube heat exchanger improves cooling performance.



### DC twin-rotary compressor
High-efficiency is achieved across compressor loads. Especially good performance is achieved in the low- to medium-load range.

## Efficiency in actual operating conditions

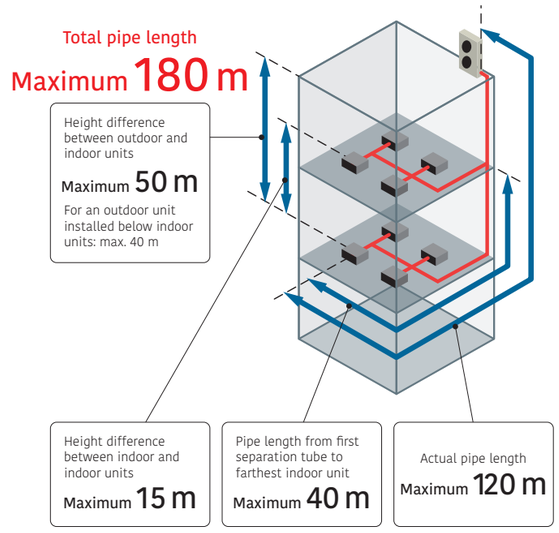
The use of a large heat exchanger and a high-efficiency Scroll compressor achieves class-leading EER/COP (Max. Heating) in all models.




* These specifications are determined by cassette combination.

## Long pipe length

Our advanced refrigerant control technology allows us to achieve a total refrigerant pipe length of 180 m. This provides high flexibility in system design.




## Up to 14 indoor units* can be connected

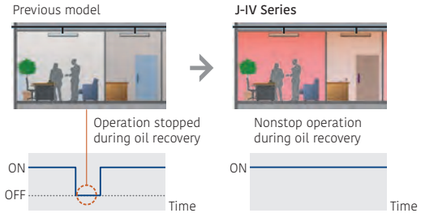
The combination of smaller but sufficiently powerful indoor units and outdoor units with an optimized heat exchanging structure makes it possible to connect up to 14 indoor units, which is the best in its class.

*: 6 HP model

| Model | Current model (J-III) | | | New model (J-IV) | | |
|---|---|---|---|---|---|---|
| Rating Capacity range (HP) | 4 | 5 | 6 | 4 | 5 | 6 |
| Max. Connectable indoor unit | 1-9 | 1-10 | 1-13 | 1-11 | 1-12 | 1-14 |

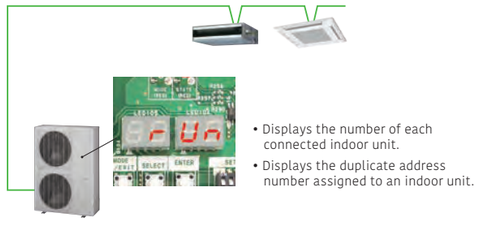
## Non-stop oil recovery operation

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




## Easier installation

**Connection check function**: Wiring connections and address settings can be checked thanks to the quick check run function.








**4,5,6HP: AJY040LBLDH / AJY045LBLDH / AJY054LBLDH**
**AJY040LELDH [3-phase] / AJY045LELDH [3-phase] / AJY054LELDH [3-phase]**

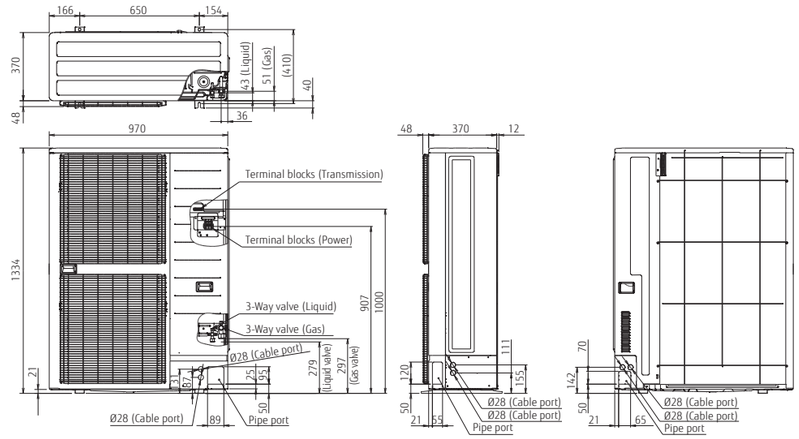
### Specifications

| Rated capacity range | | HP | 4 | 5 | 6 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Model name | | | AJY040LBLDH | AJY045LBLDH | AJY054LBLDH | AJY040LELDH | AJY045LELDH | AJY054LELDH |
| Maximum connectable indoor units | | | 1-11 | 1-12 | 1-14 | 1-11 | 1-12 | 1-14 |
| Power source | | | Single phase, ~230 V, 50 Hz | | | 3-phase, ~400 V, 50 Hz | | |
| Capacity | Cooling | kW | 12.1 | 14.0 | 15.5 | 12.1 | 14.0 | 15.5 |
| | Nominal Heating | | 12.1 | 14.0 | 15.5 | 12.1 | 14.0 | 15.5 |
| | Max. Heating | | 13.6 | 16.0 | 18.0 | 13.6 | 16.0 | 18.0 |
| Input power | Cooling | kW | 3.44 | 4.15 | 4.96 | 3.44 | 4.15 | 4.96 |
| | Nominal Heating | | 3.14 | 3.60 | 4.17 | 3.14 | 3.60 | 4.17 |
| | Max. Heating | | 3.80 | 4.50 | 5.41 | 3.80 | 4.50 | 5.41 |
| EER | Cooling | W/W | 3.51 | 3.37 | 3.12 | 3.51 | 3.37 | 3.12 |
| COP | Nominal Heating | | 3.85 | 3.88 | 3.71 | 3.85 | 3.88 | 3.71 |
| | Max. Heating | | 3.57 | 3.55 | 3.32 | 3.57 | 3.55 | 3.32 |
| SEER | Cooling | | 6.50 | 6.30 | 6.08 | 6.50 | 6.30 | 6.08 |
| SCOP | Heating | | 3.83 | 3.93 | 3.94 | 3.83 | 3.93 | 3.94 |
| ηc | Cooling | % | 257.0 | 249.0 | 240.0 | 257.0 | 249.0 | 240.0 |
| ηh | Heating | | 150.0 | 154.0 | 155.0 | 150.0 | 154.0 | 155.0 |
| Airflow rate | | $m^3/h$ | 6,200 | 6,600 | 7,000 | 6,200 | 6,600 | 7,000 |
| Sound pressure level/ Power level | Cooling | dB(A) | 50 / 65 | 52 / 66 | 53 / 67 | 50 / 65 | 52 / 66 | 53 / 67 |
| | Heating | | 52 / 67 | 55 / 69 | 56 / 69 | 52 / 67 | 55 / 69 | 56 / 69 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,334 | 1,334 | 1,334 | 1,334 | 1,334 | 1,334 |
| | Width | | 970 | 970 | 970 | 970 | 970 | 970 |
| | Depth | | 370 | 370 | 370 | 370 | 370 | 370 |
| Weight | | kg | 117 | 117 | 119 | 118 | 119 | 119 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg (CO2eq-T) | 4.8 (10.0) | 5.3 (11.1) | 5.3 (11.1) | 4.8 (10.0) | 5.3 (11.1) | 5.3 (11.1) |
| Connection pipe diameter | Liquid | mm | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas | | 15.88 | 15.88 | 19.05 | 15.88 | 15.88 | 19.05 |
| Total pipe length | | m | 180 | 180 | 180 | 180 | 180 | 180 |
| Max. height difference | | | 50/40 (Outdoor unit: Upper/Lower) | | | 50/40 (Outdoor unit: Upper/Lower) | | |
| Operating Range | Cooling | °C | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

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 protective function may work when using it outside the operation range.

### Dimensions

(Unit: mm)



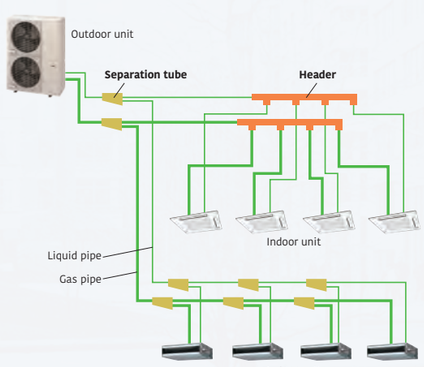
REFRIGERANT R410A

# Heat Pump
for Small-capacity type

# VRF J-IVL

**System configuration example**

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.

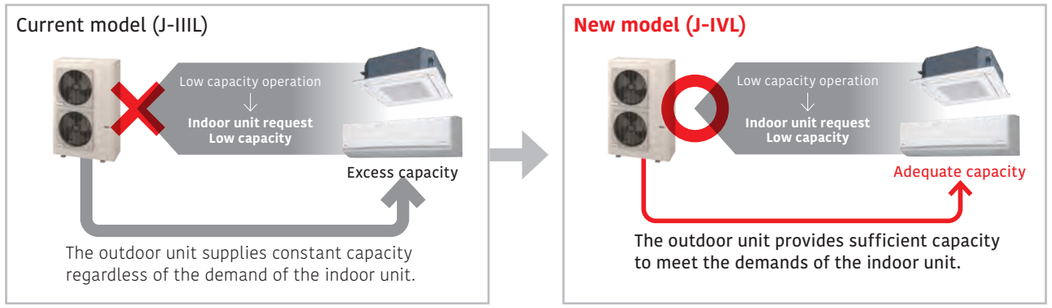







## **New** intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function.
The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.




* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

## External static pressure

External static pressure is available up to 60 Pa for 14/16/18 HP. (30 Pa for 8/10 HP, 40 Pa for 12 HP)
Capacities are slightly decreased relative to the rated values during high static pressure operations.


## Advanced high-efficiency technology

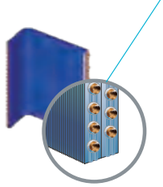
∅570 mm

### Large propeller fan

A large-diameter propeller fan with our proprietary blade design reduces draft loss, which results in high-efficiency and low noise operation.

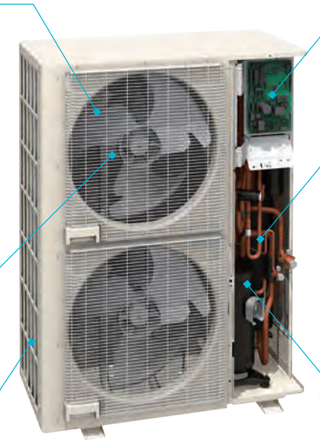
### DC fan motor

A small, multi-stage DC fan motor provides high-efficiency and low noise operation.



### Large heat exchanger

The large 2.6-row heat exchanger substantially improves heat-exchanging performance.

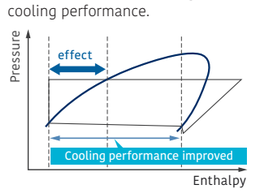


### DC inverter control

The active filter module improves efficiency.

### Subcooling heat exchanger

The dual-tube heat exchanger improves cooling performance.




15 to 130 rps

### Scroll compressor

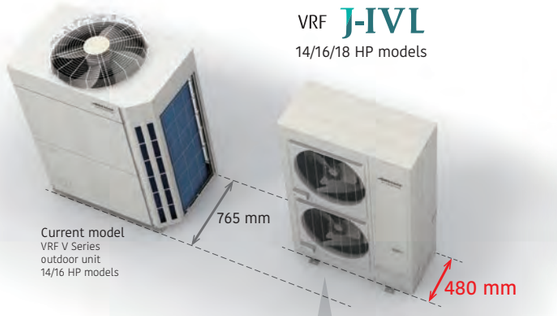
The combination of a scroll compressor with a wide rotational frequency range from 15 to 130 rps and our proprietary sensorless sine-wave control that smoothly controls the input power into the motor achieves more energy-efficient and quieter operation.

Fujitsu General offers a perfect total air conditioning system for small office buildings with multiple small rooms, taking into consideration energy savings, low noise, comfortable air volume, usage and purpose, and centralized control.

VRF J-IVL

Image: 8/10/12 HP models

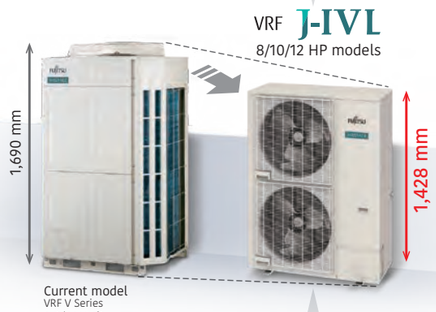
## Slim & Compact design




Depth difference
**-285mm**
J-IVL all models
Compared with current all models

Space requirement
**-45%!**
Compared with current 14/16 HP models

Weight
**-62 kg!**
Compared with current 16 HP model



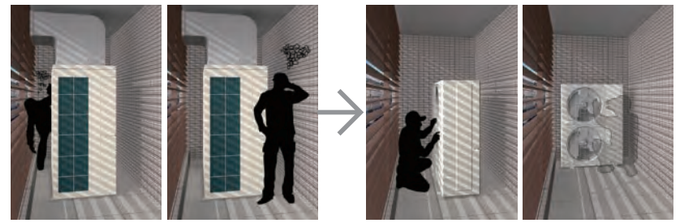

Height difference
**-262mm**
Compared with current 8 HP model

Space requirement
**-26%!**
Compared with current 8/10 HP models





# **Various** installation methods



VRF V Series outdoor unit

VRF J Series outdoor unit

Installation

### Low noise level in consideration of nearby residents

Front air discharge type with a width of about 1,000 mm, allowing for flexible installation even in narrow spaces.

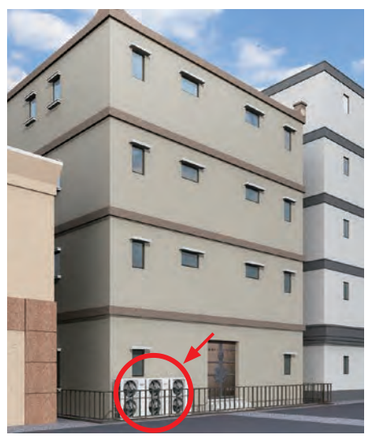
VRF V Series outdoor unit

VRF J Series outdoor unit

Narrow space behind building

### Space saving

Small and thin, allowing for direct ground or wall mounting installations even in narrow alleys.



VRF V Series outdoor unit

VRF J Series outdoor unit

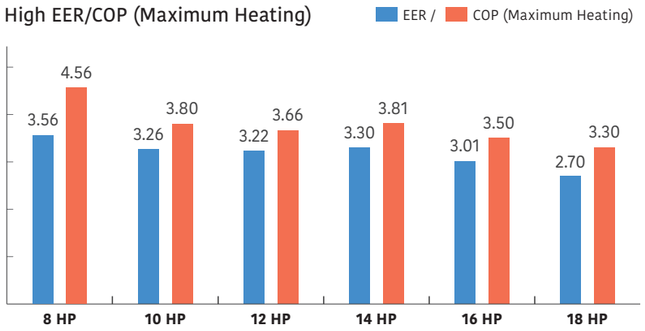
Installation on the back street of a building

### Flexible installation

Slim, low-body front air discharge meets the requirements for installation even in tight spaces. Installation flexibility without blocking the windows of buildings contributes to substantial space savings, even when multiple units are installed.

## Efficiency in actual operating conditions

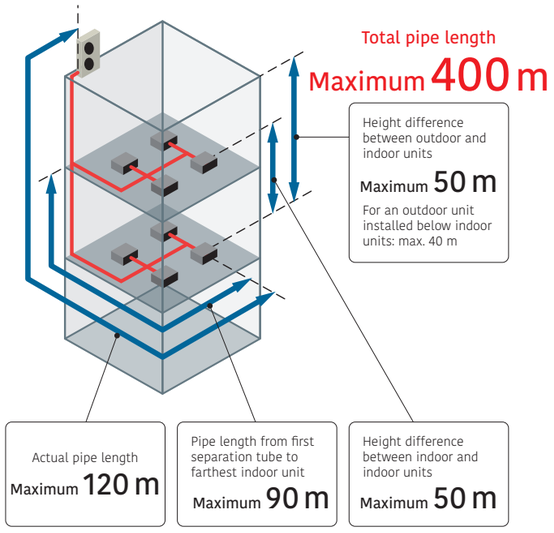
The use of a large heat exchanger and a high-efficiency Scroll compressor achieves class-leading EER/COP (Max. Heating) in all models.




* These specifications are determined by cassette combination.

## Long pipe length

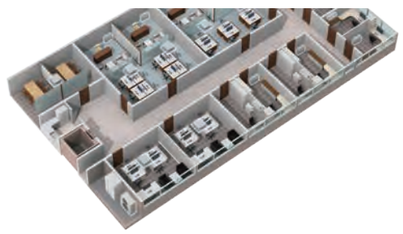
Our advanced refrigerant control technology extends the maximum allowable length of refrigerant piping to 400 m. This provides high flexibility in system design.




## Up to 42 indoor units* can be connected.

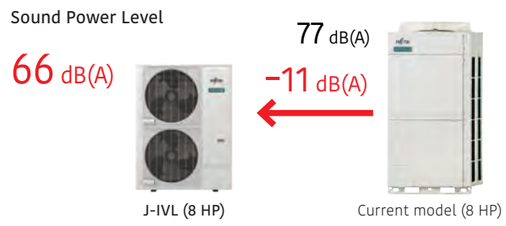
The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 42 indoor units, which is the best in its class.

*: 18 HP model



## Class-leading low operating sound

The top-class low operating noise makes it ideal for use in densely populated areas. These low operating sound models are ideal for installation in densely populated areas.






J-IVL

**8,10,12 HP: AJY072LELDH / AJY090LELDH / AJY108LELDH**
**14,16,18 HP: AJY126LELDH / AJY144LELDH / AJY162LELDH**

8, 10, 12 HP



14, 16, 18 HP

### Specifications

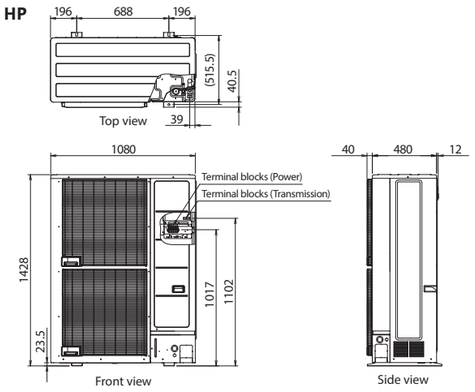
| Rated capacity range | | HP | 8 | 10 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|---|---|---|
| Model name | | | AJY072LELDH | AJY090LELDH | AJY108LELDH | AJY126LELDH | AJY144LELDH | AJY162LELDH |
| Maximum connectable indoor units | | | 1-20 | 1-25 | 1-30 | 1-36 | 1-40 | 1-42 |
| Power source | | | 3-phase, ~400V, 50Hz | | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 |
| | Nominal Heating | | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 |
| | Max. Heating | | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 55.0 |
| Input power | Cooling | kW | 6.30 | 8.59 | 10.42 | 12.12 | 14.96 | 18.52 |
| | Nominal Heating | | 4.65 | 6.61 | 8.18 | 9.71 | 11.81 | 13.66 |
| | Max. Heating | | 5.45 | 8.29 | 10.25 | 11.81 | 14.29 | 16.66 |
| EER | Cooling | W/W | 3.56 | 3.26 | 3.22 | 3.30 | 3.01 | 2.70 |
| COP | Nominal Heating | | 4.82 | 4.24 | 4.10 | 4.12 | 3.81 | 3.66 |
| | Max. Heating | | 4.56 | 3.80 | 3.66 | 3.81 | 3.50 | 3.30 |
| SEER | Cooling | | 7.62 | 7.50 | 7.27 | 7.27 | 7.00 | 6.29 |
| SCOP | Heating | | 3.89 | 3.61 | 3.63 | 3.53 | 3.51 | 3.54 |
| ηc | Cooling | % | 301.8 | 297.0 | 287.8 | 287.8 | 277.0 | 248.6 |
| ηh | Heating | | 152.6 | 141.4 | 142.2 | 138.2 | 137.4 | 138.6 |
| Airflow rate | | $m^3/h$ | 8,400 | 9,000 | 11,000/12,100 | 13,000 | 14,000 | 14,800/15,300 |
| Sound pressure level/ Power level | Cooling | dB(A) | 52/66 | 54/69 | 59/73 | 62/75 | 64/77 | 65/79 |
| | Heating | | 54/66 | 57/70 | 62/75 | 63/76 | 65/78 | 68/82 |
| Net Dimensions | Height | mm | 1,428 | 1,428 | 1,428 | 1,638 | 1,638 | 1,638 |
| | Width | | 1,080 | 1,080 | 1,080 | 1,080 | 1,080 | 1,080 |
| | Depth | | 480 | 480 | 480 | 480 | 480 | 480 |
| Weight | | kg | 170 | 177 | 178 | 213 | 213 | 217 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg (CO2eq-T) | 7.0 (14.6) | 7.5 (15.7) | 7.5 (15.7) | 11.0 (23.0) | 11.0 (23.0) | 11.8 (24.6) |
| Connection pipe diameter | Liquid | mm | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 12.70 |
| | Gas | | 19.05 | 22.20 | 28.58 | 28.58 | 28.58 | 28.58 |
| Total pipe length | | m | 400 | 400 | 400 | 400 | 400 | 400 |
| Max. height difference | | | 50/40 (Outdoor unit: Upper/Lower) | | | | | |
| Operating Range | Cooling | C° | -15 to 46 | -15 to 46 | -15 to 46 | -5 to 46* | -5 to 46* | -5 to 46* |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

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°CDB.
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.

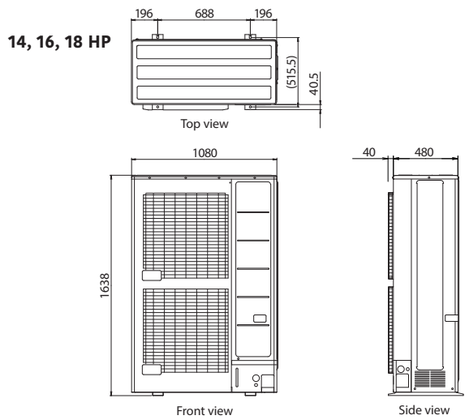
### Dimensions

(Unit: mm)

**8, 10, 12 HP**




**14, 16, 18 HP**



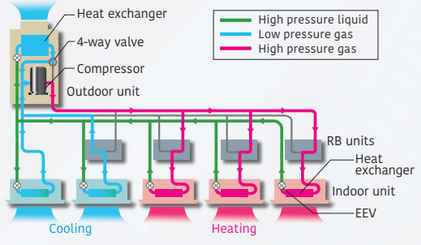
REFRIGERANT R410A

# Heat Recovery
Modular type

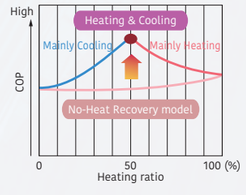
# VRF VR-IV

### Highly energy-efficient operation

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.




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.

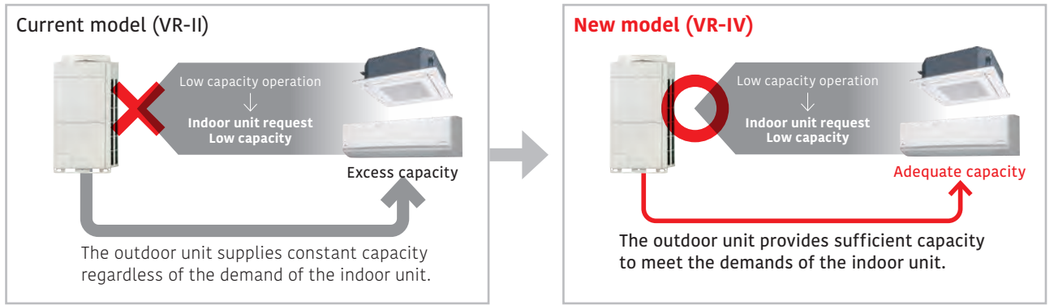







## **New** intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function.
The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.




* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

## Increase in the number of connectable indoor units

Capacity range of connectable indoor units

| | |
|---|---|
| New model (VR-IV) | 25%* to 150% |
| Current model (VR-II) | 50% to 150% |

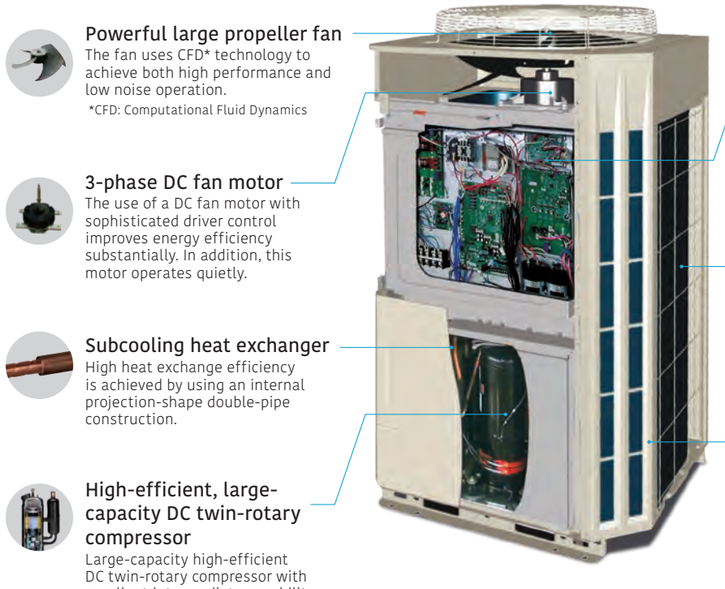
*: For modular type, 25% to 49.9% operation in the entire system is available. (by one unit operation)

Increased number of connectable indoor units and space saving combinations

(Unit)

| HP | 10 | 12 | 14 | 16 | ··· | 28 | 30 | 32 | ··· | 48 |
|---|---|---|---|---|---|---|---|---|---|---|
| New model (VR-IV) | 21 | 26 | 30 | 34 | ··· | 60 | 64 | 64 | ··· | 64 |
| Current model (VR-II) | 15 | 16 | 17 | 21 | 24 | ··· | 42 | 45 | 48 | ··· | 64 |

## The energy-saving technology that boosted operation efficiency



### Powerful large propeller fan
The fan uses CFD* technology to achieve both high performance and low noise operation.
*CFD: Computational Fluid Dynamics

### 3-phase DC fan motor
The use of a DC fan motor with sophisticated driver control improves energy efficiency substantially. In addition, this motor operates quietly.

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

### High-efficient, large-capacity DC twin-rotary compressor
Large-capacity high-efficient DC twin-rotary compressor with excellent intermediate capability.

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

### 4-face heat exchanger
The 4-face heat exchanger increases the effective surface area and significantly improves heat-exchanging efficiency.

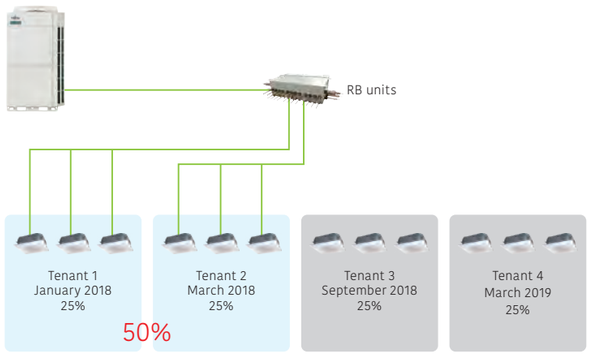
### Front intake port
**(Corner cut air inlet structure)**
In multiple outdoor unit installations, the unique front intake design improves airflow into the heat exchanger.

# **Extended** connection ratio (applicable to multiple tenants)

Especially useful when starting partial
air conditioning in a building under construction
Installation can be added flexibly for each tenant.

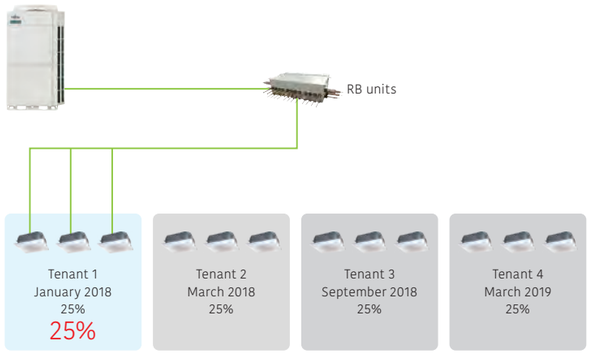
## Stand-alone

Current model (VR-II)
**Example)** 50% of 12HP minimum connected indoor unit capacity is required




Installation is possible even for tenants who have not yet started operations.

**New model (VR-IV)**
**Example)** 25% of 12HP minimum connected indoor unit capacity is required

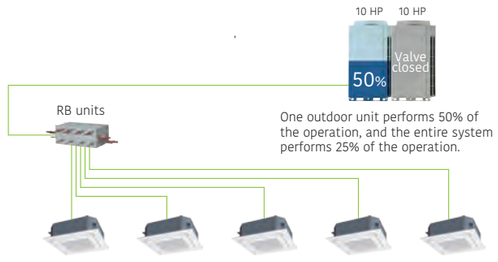



Installation and commissioning can be added flexibly to meet the opening dates of other tenants.

## Modular type

One outdoor unit operates effectively for the capacities of connectable indoor units in the entire system. (Each of the multiple outdoor units does not dare to operate at 25% capacity: any one of the outdoor units will operate at 50% and the remaining units will each output 0%, i.e., stop operating.)

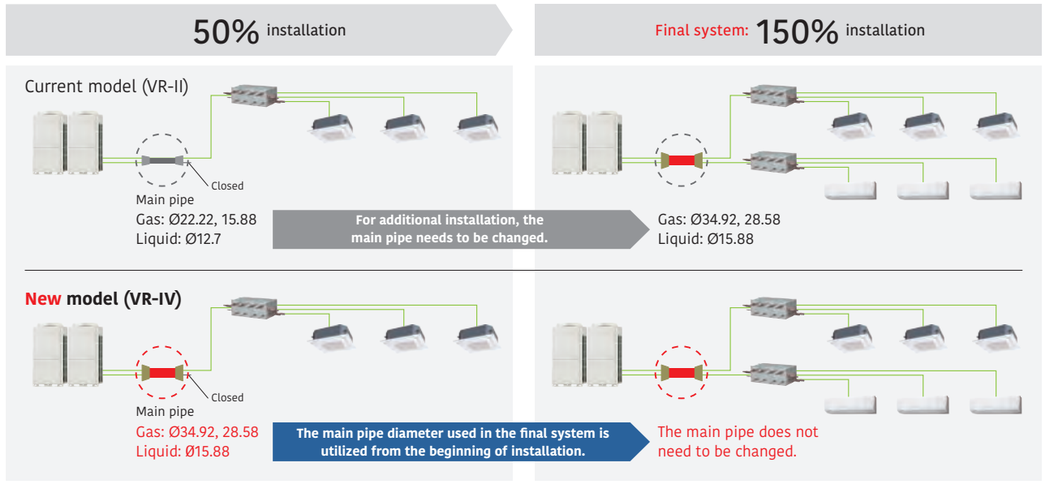
**Example:** One 10HP outdoor unit performs 25% of the total 20HP outdoor units system.
One 10HP outdoor unit performs 50% of its capacity
→ Two outdoor units do not perform 25% of the operation.




One outdoor unit performs 50% of the operation, and the entire system performs 25% of the operation.

# Additional installation is possible without changing the main pipe.

A main pipe of a diameter that can be used for the final system is installed at the beginning of the installation.
Duplication of the work will be avoided as there is no need to change the main pipe as in the previous model.



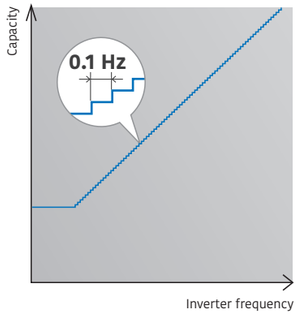

## All-inverter compressor

**Large-capacity DC inverter compressor**

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

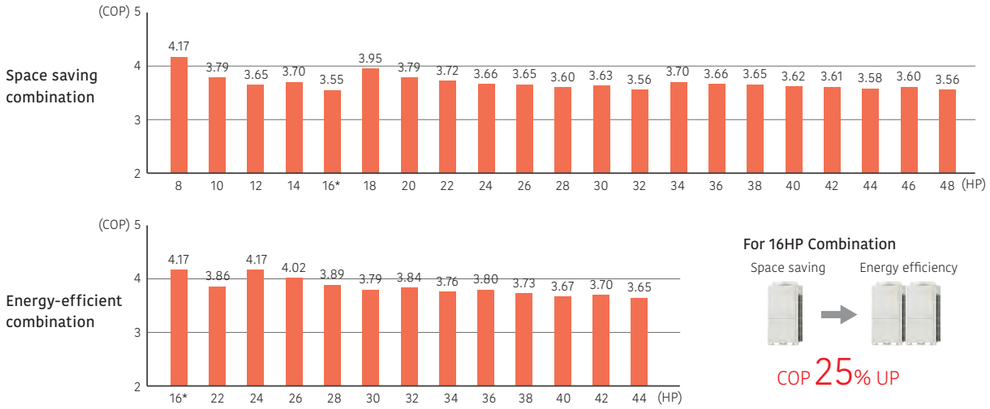
**High-efficiency compressor speed control**

The compressor speed control in 0.1 Hz increments ensures a comfortable space with less change in room temperature and less energy loss.



## Efficiency in actual operating conditions

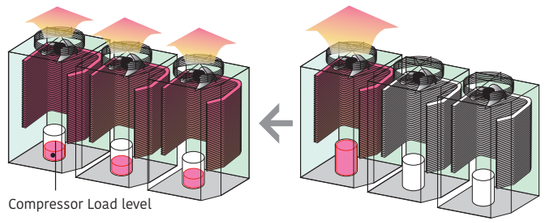
Class-leading high COP (Maximum) The use of our proprietary heat exchanger structure and high-efficiency DC twin-rotary compressors achieves the class-leading coefficient of performance (COP) in every combination.




* These specifications are determined by Cassette combination.
*Multiple outdoor units are not certified by Eurovent.

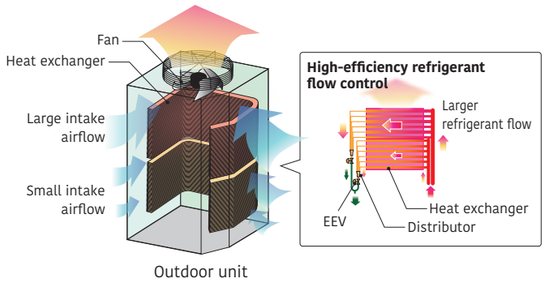
## Multiple outdoor operation control

When multiple outdoor units are connected, each compressor carries out sophisticated operation. Instead of operating one compressor at full load to distribute the refrigerant to one heat exchanger, all compressors operate at partial load to distribute the refrigerant to all heat exchangers, thereby improving the efficiency of the entire system.



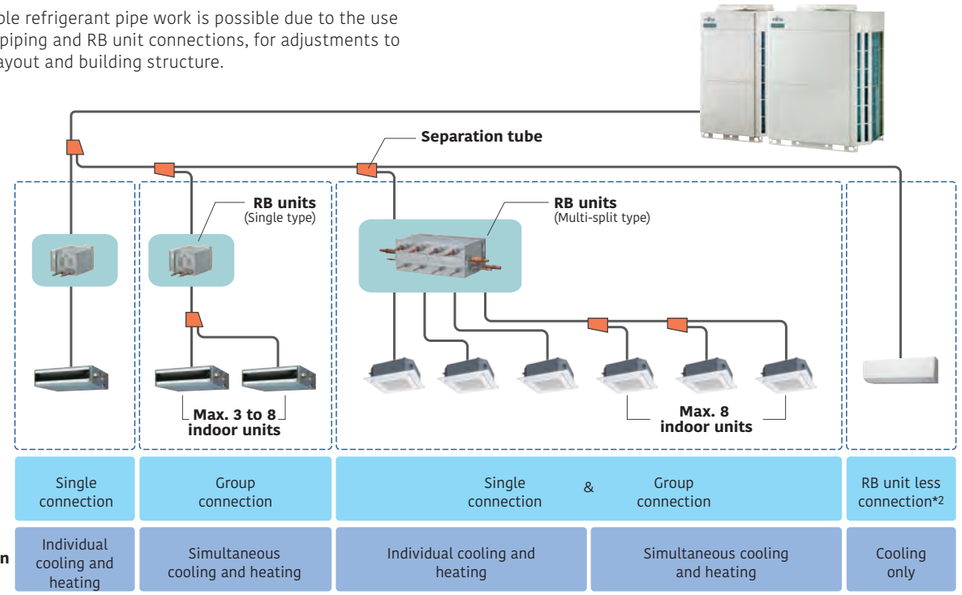

## Heat exchanger refrigerant control

The heat exchanger in the outdoor unit is divided into two parts, upper and lower. 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.




## Flexible pipe connection

More flexible refrigerant pipe work is possible due to the use of various piping and RB unit connections, for adjustments to the floor layout and building structure.




- An RB unit can be placed between the first branch and an indoor unit.
- The maximum height difference between RB units is 15 m.
  No RB Unit is required for cooling only use.

## Flexible installation of RB unit

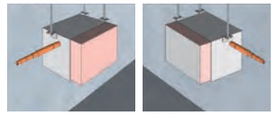
RB units
(Multi-split type/8-branch)

RB units
(Multi-split type/12-branch)

**Small and slim design with a height of 198 mm makes it easy to install in tight spaces with height constraints.**

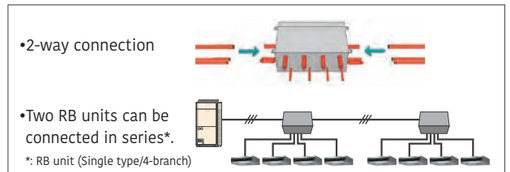
- A drain pipe is not required.
- Different positions of a control box can be chosen to accommodate installation conditions.
- Series connection for simplified installation

*: RB unit (single type)



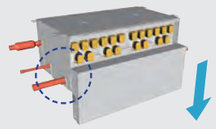
An RB unit can be installed on either side of the control box.

An RB unit can be installed on top of the control box to save space.
*: RB unit (single type)



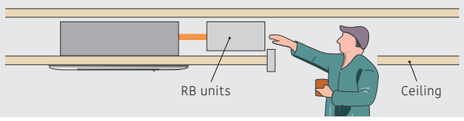

### Easy maintenance in tight spaces

Maintenance can be performed from the side.



The electrical box can be accessed and serviced by sliding down the front cover.

Parts can be accessed and replaced easily even in tight spaces inside the ceiling.



**Outdoor units lineup** • Combinations other than those listed below are not recommended.

## Space saving combination

| | | | | |
|---|---|---|---|---|
| 22.4kW (8HP)<br>AJY072GALDH<br>UNIT : AJY072GALDH | 28.0kW (10HP)<br>AJY090GALDH<br>UNIT : AJY090GALDH | 33.5kW (12HP)<br>AJY108GALDH<br>UNIT : AJY108GALDH | 40.0kW (14HP)<br>AJY126GALDH<br>UNIT : AJY126GALDH | 45.0kW (16HP)<br>AJY144GALDH<br>UNIT : AJY144GALDH |
| 50.4kW (18HP)<br>AJY162GALDH<br>UNIT : AJY090/072GALDH | 56.0kW (20HP)<br>AJY180GALDH<br>UNIT : AJY090/090GALDH | 61.5kW (22HP)<br>AJY198GALDH<br>UNIT : AJY108/090GALDH | 67.0kW (24HP)<br>AJY216GALDH<br>UNIT : AJY108/108GALDH | 73.0kW (26HP)<br>AJY234GALDH<br>UNIT : AJY144/090GALDH |
| 78.5kW (28HP)<br>AJY252GALDH<br>UNIT : AJY144/108GALDH | 85.0kW (30HP)<br>AJY270GALDH<br>UNIT : AJY144/126GALDH | 90.0kW (32HP)<br>AJY288GALDH<br>UNIT :AJY144/144GALDH | 95.0kW (34HP)<br>AJY306GALDH<br>UNIT : AJY108/108/090GALDH | 100.5kW (36HP)<br>AJY324GALDH<br>UNIT : AJY108/108/108GALDH |
| 106.5kW (38HP)<br>AJY342GALDH<br>UNIT : AJY144/108/090GALDH | 112.0kW (40HP)<br>AJY360GALDH<br>UNIT : AJY144/108/108GALDH | 118.0kW (42HP)<br>AJY378GALDH<br>UNIT : AJY144/144/090GALDH | 123.5kW (44HP)<br>AJY396GALDH<br>UNIT : AJY144/144/108GALDH | 130.0kW (46HP)<br>AJY414GALDH<br>UNIT : AJY144/144/126GALDH |
| 135.0kW (48HP)<br>AJY432GALDH<br>UNIT : AJY144/144/144GALDH | | | | |

## Energy efficiency combination

| | | | | |
|---|---|---|---|---|
| 44.8kW (16HP)<br>AJY144GALDHH<br>UNIT : AJY072/072GALDH | 62.4kW (22HP)<br>AJY198GALDHH<br>UNIT : AJY126/072GALDH | 67.2kW (24HP)<br>AJY216GALDHH<br>UNIT : AJY072/072/072GALDH | 72.8kW (26HP)<br>AJY234GALDHH<br>UNIT : AJY090/072/072GALDH | 78.4kW (28HP)<br>AJY252GALDHH<br>UNIT : AJY090/090/072GALDH |
| 84.0kW (30HP)<br>AJY270GALDHH<br>UNIT : AJY090/090/090GALDH | 90.4kW (32HP)<br>AJY288GALDHH<br>UNIT : AJY126/090/072GALDH | 96.0kW (34HP)<br>AJY306GALDHH<br>UNIT : AJY126/090/090GALDH | 102.4kW (36HP)<br>AJY324GALDHH<br>UNIT : AJY126/126/072GALDH | 108.0kW (38HP)<br>AJY342GALDHH<br>UNIT : AJY126/126/090GALDH |
| 113.0kW (40HP)<br>AJY360GALDHH<br>UNIT : AJY144/126/090GALDH | 120.0kW (42HP)<br>AJY378GALDHH<br>UNIT : AJY126/126/126GALDH | 125.0kW (44HP)<br>AJY396GALDHH<br>UNIT : AJY144/126/126GALDH | | |





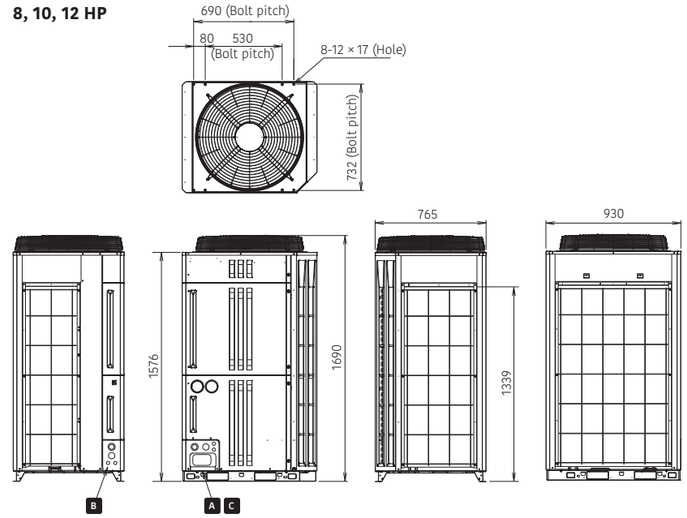
**8,10,12HP : AJY072GALDH / AJY090GALDH / AJY108GALDH**
**14,16HP : AJY126GALDH / AJY144GALDH**

8, 10, 12 HP　　14, 16 HP

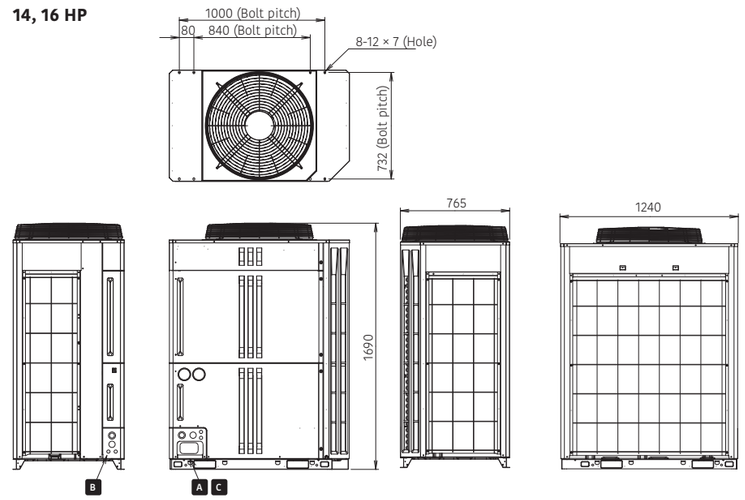
## Dimensions

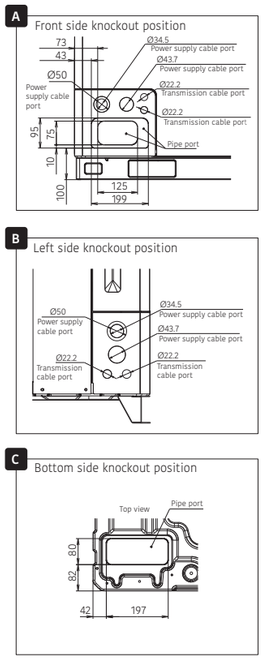
(Unit: mm)

**8, 10, 12 HP**




**14, 16 HP**



## Outdoor units specifications

### Space saving combination

| Rated capacity range | | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model name | | | AJY072GALDH | AJY090GALDH | AJY108GALDH | AJY126GALDH | AJY144GALDH | AJY162GALDH | AJY180GALDH | AJY198GALDH | AJY216GALDH | AJY234GALDH | AJY252GALDH | AJY270GALDH | AJY288GALDH | AJY306GALDH | AJY324GALDH | AJY342GALDH | AJY360GALDH | AJY378GALDH | AJY396GALDH | AJY414GALDH | AJY432GALDH |
| Unit 1<br>Unit 2<br>Unit 3 | | | AJY072GALDH | AJY090GALDH | AJY108GALDH | AJY126GALDH | AJY144GALDH | AJY090GALDH<br>AJY072GALDH | AJY090GALDH<br>AJY090GALDH | AJY108GALDH<br>AJY090GALDH | AJY108GALDH<br>AJY108GALDH | AJY144GALDH<br>AJY090GALDH | AJY144GALDH<br>AJY108GALDH | AJY144GALDH<br>AJY126GALDH | AJY144GALDH<br>AJY144GALDH | AJY108GALDH<br>AJY108GALDH<br>AJY090GALDH | AJY108GALDH<br>AJY108GALDH<br>AJY108GALDH | AJY108GALDH<br>AJY108GALDH<br>AJY090GALDH | AJY144GALDH<br>AJY108GALDH<br>AJY090GALDH | AJY144GALDH<br>AJY108GALDH<br>AJY090GALDH | AJY144GALDH<br>AJY144GALDH<br>AJY090GALDH | AJY144GALDH<br>AJY144GALDH<br>AJY108GALDH | AJY144GALDH<br>AJY144GALDH<br>AJY126GALDH | AJY144GALDH<br>AJY144GALDH<br>AJY144GALDH |
| Maximum connectable indoor units*1 | | | 17 | 21 | 26 | 30 | 34 | 39 | 43 | 47 | 52 | 56 | 60 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| Connectable capacity range of indoor units | | kW | 5.6-33.6 | 7.0-42.0 | 8.4-50.2 | 10.0-60.0 | 11.3-67.5 | 12.6-75.6*3 | 14.0-84.0*3 | 15.4-92.2*3 | 16.8-100.5*3 | 18.3-109.5*3 | 19.7-117.7*3 | 21.3-127.5*3 | 22.5-135.0*3 | 23.8-142.5*3 | 25.2-150.7*3 | 26.7-159.7*3 | 28.0-168.0*3 | 29.5-177.0*3 | 30.9-185.2*3 | 32.5-195.0*3 | 33.8-202.5*3 |
| Power source | | | 3-phase, 4-wire, 400 V, 50Hz | | | | | | | | | 3-phase, 4-wire, 400 V, 50Hz | | | | | | | | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0 | 61.5 | 67.0 | 73.0 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 106.5 | 112.0 | 118.0 | 123.5 | 130.0 | 135.0 |
| | Nominal Heating | | 22.4 | 28.0 | 33.5 | 40.0 | 42.0 | 50.4 | 56.0 | 61.5 | 67.0 | 70.0 | 75.5 | 82.0 | 84.0 | 95.0 | 100.5 | 103.5 | 109.0 | 112.0 | 117.5 | 124.0 | 126.0 |
| | Max. Heating | | 25.0 | 31.5 | 37.5 | 45.0 | 48.0 | 56.5 | 63.0 | 69.0 | 75.0 | 79.5 | 85.5 | 93.0 | 96.0 | 106.5 | 112.5 | 117.0 | 123.0 | 127.5 | 133.5 | 141.0 | 144.0 |
| Input power | Cooling | kW | 6.26 | 9.53 | 11.89 | 13.16 | 16.71 | 15.79 | 19.06 | 21.42 | 23.78 | 26.24 | 28.60 | 29.87 | 33.42 | 33.31 | 35.67 | 38.13 | 40.49 | 42.95 | 45.31 | 46.58 | 50.13 |
| | Nominal Heating | | 5.37 | 7.38 | 9.16 | 10.80 | 11.81 | 12.75 | 14.76 | 16.54 | 18.32 | 19.19 | 20.97 | 22.61 | 23.62 | 25.70 | 27.48 | 28.35 | 30.13 | 31.00 | 32.78 | 34.42 | 35.43 |
| | Max. Heating | | 6.25 | 8.96 | 11.48 | 13.95 | 14.98 | 15.21 | 17.92 | 20.44 | 22.96 | 23.94 | 26.46 | 28.93 | 29.96 | 31.92 | 34.44 | 35.42 | 37.94 | 38.92 | 41.44 | 43.91 | 44.94 |
| EER | Cooling | W/W | 3.57 | 2.93 | 2.81 | 3.03 | 2.69 | 3.19 | 2.94 | 2.87 | 2.82 | 2.78 | 2.74 | 2.85 | 2.69 | 2.85 | 2.82 | 2.79 | 2.77 | 2.75 | 2.73 | 2.79 | 2.69 |
| COP | Nominal Heating | | 4.17 | 3.79 | 3.65 | 3.70 | 3.55 | 3.95 | 3.79 | 3.72 | 3.66 | 3.65 | 3.60 | 3.63 | 3.56 | 3.70 | 3.66 | 3.65 | 3.62 | 3.61 | 3.58 | 3.60 | 3.56 |
| | Max. Heating | | 4.00 | 3.51 | 3.26 | 3.22 | 3.20 | 3.71 | 3.52 | 3.38 | 3.27 | 3.32 | 3.23 | 3.21 | 3.20 | 3.34 | 3.27 | 3.30 | 3.24 | 3.28 | 3.22 | 3.21 | 3.20 |
| SEER | Cooling | | 7.16 | 6.61 | 6.73 | 6.76 | 6.27 | 6.89 | 6.61 | 6.67 | 6.73 | 6.44 | 6.50 | 6.52 | 6.27 | 6.69 | 6.73 | 6.54 | 6.58 | 6.38 | 6.42 | 6.43 | 6.27 |
| SCOP | Heating | | 3.78 | 3.76 | 3.86 | 4.31 | 4.41 | 3.77 | 3.76 | 3.81 | 3.86 | 4.09 | 4.14 | 4.36 | 4.41 | 3.83 | 3.86 | 4.01 | 4.04 | 4.19 | 4.23 | 4.38 | 4.41 |
| ηc | Cooling | % | 283.0 | 261.0 | 266.0 | 267.0 | 248.0 | 272.0 | 261.0 | 263.5 | 266.0 | 254.5 | 257.0 | 257.5 | 248.0 | 264.3 | 266.0 | 258.3 | 260.0 | 252.3 | 254.0 | 254.3 | 248.0 |
| ηh | Heating | | 148.0 | 147.0 | 151.0 | 169.0 | 173.0 | 147.5 | 147.0 | 149.0 | 151.0 | 160.0 | 162.0 | 171.0 | 173.0 | 149.7 | 151.0 | 157.0 | 158.3 | 164.3 | 165.7 | 171.7 | 173.0 |
| Air flow rate | High | $m^3/h$ | 11,100 | 11,100 | 11,100 | 13,000 | 13,000 | 11,100×2 | 11,100×2 | 11,100×2 | 11,100×2 | 13,000+11,100 | 13,000+11,100 | 13,000×2 | 13,000×2 | 11,100×3 | 11,100×3 | 13,000+11,100×2 | 13,000+11,100×2 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×3 | 13,000×3 |
| Sound pressure level*2/ Power level | Cooling | dB(A) | 56 / 77 | 58 / 78 | 59 / 79 | 60 / 82 | 61 / 82 | 60 / 81 | 61 / 81 | 62 / 82 | 62 / 82 | 63 / 83 | 63 / 84 | 64 / 85 | 64 / 85 | 63 / 83 | 64 / 84 | 64 / 85 | 65 / 85 | 65 / 86 | 65 / 86 | 65 / 87 | 66 / 87 |
| | Heating | | 58 / 79 | 59 / 79 | 63 / 82 | 62 / 83 | 63 / 83 | 62 / 82 | 62 / 82 | 64 / 84 | 66 / 85 | 64 / 84 | 66 / 86 | 66 / 86 | 66 / 86 | 67 / 86 | 68 / 87 | 67 / 86 | 68 / 87 | 67 / 87 | 68/ 87 | 67 / 88 | 68/ 88 |
| Max. External static pressure | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Compressor motor output | | kW | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 7.5 × 2 | 7.5 × 2 | 7.5 × 2 | 7.5 × 2 | 11.0 + 7.5 | 11.0 + 7.5 | 11.0 × 2 | 11.0 × 2 | 7.5 × 3 | 7.5 × 3 | 11.0+7.5 × 2 | 11.0 + 7.5 × 2 | 11.0 × 2 + 7.5 | 11.0 × 2 + 7.5 | 11.0 × 3 | 11.0 × 3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930 | 930 | 930 | 1,240 | 1,240 | 930 × 2 | 930 × 2 | 930 × 2 | 930 × 2 | 1,240 + 930 | 1,240 + 930 | 1,240 × 2 | 1,240 × 2 | 930 × 3 | 930 × 3 | 1,240 + 930 × 2 | 1,240 + 930 × 2 | 1,240 × 2 + 930 | 1,240 × 2 + 930 | 1,240 × 3 | 1,240 × 3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 262 | 262 | 262 | 286 | 286 | 262 × 2 | 262 × 2 | 262 × 2 | 262 × 2 | 286 + 262 | 286 + 262 | 286 × 2 | 286 × 2 | 262 × 3 | 262 × 3 | 286 + 262 × 2 | 286 + 262 × 2 | 286 × 2 + 262 | 286 × 2 + 262 | 286 × 3 | 286 × 3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg (CO2eq-T) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 12.70 | 12.70 | 12.70 | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Discharge Gas | | 15.88 | 19.05 | 19.05 | 22.22 | 22.22 | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 |
| | Suction Gas | | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operating Range | Cooling | °CDB | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |
| | Cooling/Heating | | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 |

### Energy Efficiency Combination

| Rated capacity range | | HP | 16 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model name | | | AJY144GALDHH | AJY198GALDHH | AJY216GALDHH | AJY234GALDHH | AJY252GALDHH | AJY270GALDHH | AJY288GALDHH | AJY306GALDHH | AJY324GALDHH | AJY342GALDHH | AJY360GALDHH | AJY378GALDHH | AJY396GALDHH |
| Unit 1<br>Unit 2<br>Unit 3 | | | AJY072GALDH<br>AJY072GALDH | AJY126GALDH<br>AJY072GALDH | AJY072GALDH<br>AJY072GALDH<br>AJY072GALDH | AJY090GALDH<br>AJY072GALDH<br>AJY072GALDH | AJY090GALDH<br>AJY090GALDH<br>AJY072GALDH | AJY090GALDH<br>AJY090GALDH<br>AJY090GALDH | AJY126GALDH<br>AJY090GALDH<br>AJY072GALDH | AJY126GALDH<br>AJY090GALDH<br>AJY090GALDH | AJY126GALDH<br>AJY126GALDH<br>AJY072GALDH | AJY126GALDH<br>AJY126GALDH<br>AJY090GALDH | AJY144GALDH<br>AJY126GALDH<br>AJY090GALDH | AJY126GALDH<br>AJY126GALDH<br>AJY126GALDH | AJY144GALDH<br>AJY126GALDH<br>AJY126GALDH |
| Maximum connectable indoor units*1 | | | 34 | 47 | 52 | 56 | 60 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| Connectable capacity range of indoor units | | kW | 11.2-67.2*3 | 15.6-93.6*3 | 16.8-100.8*3 | 18.2-109.2*3 | 19.6-117.6*3 | 21.0-126.0*3 | 22.6-135.6*3 | 24.0-144.0*3 | 25.6-153.6*3 | 27.0-162.0*3 | 28.3-169.5*3 | 30.0-180.0*3 | 31.3-187.5*3 |
| Power source | | | 3-phase, 4-wire, 400 V, 50Hz | | | | | | 3-phase, 4-wire, 400 V, 50Hz | | | | | | |
| Capacity | Cooling | kW | 44.8 | 62.4 | 67.2 | 72.8 | 78.4 | 84.0 | 90.4 | 96.0 | 102.4 | 108.0 | 113.0 | 120.0 | 125.0 |
| | Nominal Heating | | 44.8 | 62.4 | 67.2 | 72.8 | 78.4 | 84.0 | 90.4 | 96.0 | 102.4 | 108.0 | 110.0 | 120.0 | 122.0 |
| | Max. Heating | | 50.0 | 70.0 | 75.0 | 81.5 | 88.0 | 94.5 | 101.5 | 108.0 | 115.0 | 121.5 | 124.5 | 135.0 | 138.0 |
| Input power | Cooling | kW | 12.52 | 19.42 | 18.78 | 22.05 | 25.32 | 28.59 | 28.95 | 32.22 | 32.58 | 35.85 | 39.40 | 39.48 | 43.03 |
| | Nominal Heating | | 10.74 | 16.17 | 16.11 | 18.12 | 20.13 | 22.14 | 23.55 | 25.56 | 26.97 | 28.98 | 29.99 | 32.40 | 33.41 |
| | Max. Heating | | 12.50 | 20.20 | 18.75 | 21.46 | 24.17 | 26.88 | 29.16 | 31.87 | 34.15 | 36.86 | 37.89 | 41.85 | 42.88 |
| EER | Cooling | W/W | 3.58 | 3.21 | 3.58 | 3.30 | 3.10 | 2.94 | 3.12 | 2.98 | 3.14 | 3.01 | 2.87 | 3.04 | 2.90 |
| COP | Nominal Heating | | 4.17 | 3.86 | 4.17 | 4.02 | 3.89 | 3.79 | 3.84 | 3.76 | 3.80 | 3.73 | 3.67 | 3.70 | 3.65 |
| | Max. Heating | | 4.00 | 3.47 | 4.00 | 3.80 | 3.64 | 3.52 | 3.48 | 3.39 | 3.37 | 3.30 | 3.29 | 3.23 | 3.22 |
| SEER | Cooling | | 7.16 | 6.96 | 7.16 | 6.98 | 6.79 | 6.61 | 6.84 | 6.66 | 6.89 | 6.71 | 6.55 | 6.76 | 6.60 |
| SCOP | Heating | | 3.78 | 4.05 | 3.78 | 3.77 | 3.77 | 3.76 | 3.95 | 3.94 | 4.13 | 4.13 | 4.16 | 4.31 | 4.34 |
| ηc | Cooling | % | 283.0 | 275.0 | 283.0 | 275.7 | 268.3 | 261.0 | 270.3 | 263.0 | 272.3 | 265.0 | 258.7 | 267.0 | 260.7 |
| ηh | Heating | | 148.0 | 158.5 | 148.0 | 147.7 | 147.3 | 147.0 | 154.7 | 154.3 | 162.0 | 161.7 | 163.0 | 169.0 | 170.3 |
| Air flow rate | High | $m^3/h$ | 11,100×2 | 13,000+11,100 | 11,100×3 | 11,100×3 | 11,100×3 | 11,100×3 | 13,000+11,100×2 | 13,000+11,100×2 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×3 | 13,000×3 |
| Sound pressure level*2/ Power level | Cooling | dB(A) | 59 / 80 | 61 / 83 | 61 / 82 | 62 / 82 | 62 / 82 | 63 / 83 | 63 / 84 | 64 / 85 | 64 / 86 | 64 / 86 | 65 / 86 | 65 / 87 | 65 / 87 |
| | Heating | | 61 / 82 | 63 / 84 | 63 / 84 | 63 / 84 | 63 / 84 | 64 / 84 | 65 / 86 | 65 / 86 | 66 / 87 | 66 / 87 | 66 / 87 | 67 / 88 | 67 / 88 |
| Max. External static pressure | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Compressor motor output | | kW | 7.5 × 2 | 11.0 + 7.5 | 7.5 × 3 | 7.5 × 3 | 7.5 × 3 | 7.5 × 3 | 11.0 + 7.5 × 2 | 11.0 + 7.5 × 2 | 11.0 × 2 + 7.5 | 11.0 × 2 + 7.5 | 11.0 × 2 + 7.5 | 11.0 × 3 | 11.0 × 3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930 × 2 | 1,240 + 930 | 930 × 3 | 930 × 3 | 930 × 3 | 930 × 3 | 1,240 + 930 × 2 | 1,240 + 930 × 2 | 1,240 × 2 + 930 | 1,240 × 2 + 930 | 1,240 × 2 + 930 | 1,240 × 3 | 1,240 × 3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 262 × 2 | 286 + 262 | 262 × 3 | 262 × 3 | 262 × 3 | 262 × 3 | 286 + 262 × 2 | 286 + 262 × 2 | 286 × 2 + 262 | 286 × 2 + 262 | 286 × 2 + 262 | 286 × 3 | 286 × 3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg (CO2eq-T) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Discharge Gas | | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 |
| | Suction Gas | | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operating Range | Cooling | °CDB | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |
| | Cooling/Heating | | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 |

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.

When cooling operation is be conducted at an outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to that of the indoor units.
* These specifications are determined by ducted combination.
* Multiple outdoor units are not certified by Eurovent.

*1: Minimum connectable indoor unit number is 2.
*2: The noise level is the value measured in an anechoic room. When measured in an actual installation, the measured value is typically larger than the indicated value due to ambient noise and reflections.

*3: If the capacity range of the connectable indoor units is between 25% and 49.9%, do not open the three-way valve except for the unit to be operated. In addition, do not connect the power line.

REFRIGERANT R410A

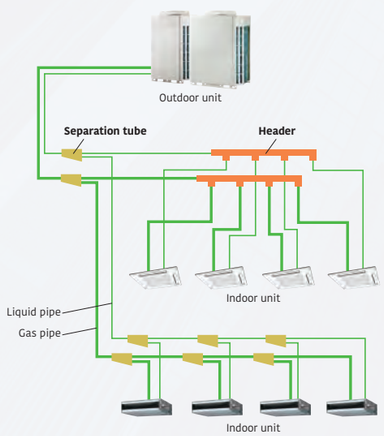
# Heat Pump

Modular type

# VRF V-IV

### System configuration example

- Suitable for air conditioning midsize and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
- Multiple indoor units are connected with separation tubes and headers.

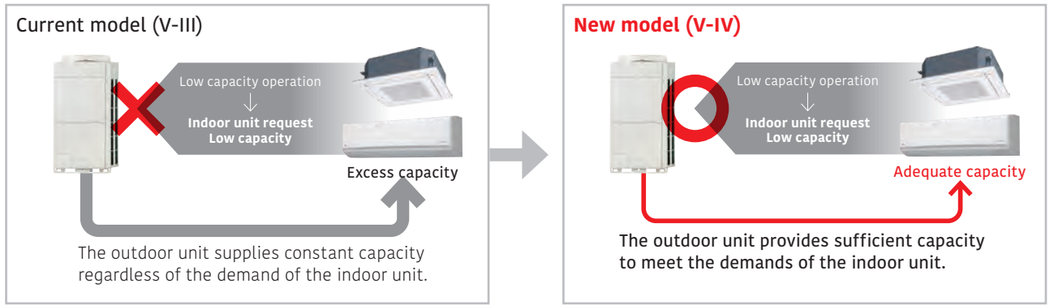







## New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function.
The refrigerant control operates with subtle control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

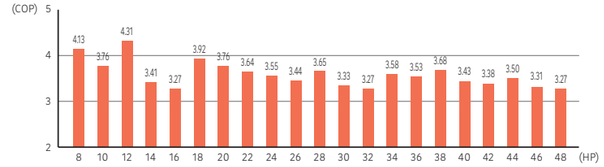



* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

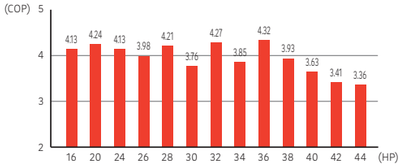
### Efficiency in actual operating conditions

The use of our proprietary heat exchanger structure and high-efficiency DC twin-rotary compressors achieves the class-leading coefficient of performance (COP) in every combination.

Space saving combination



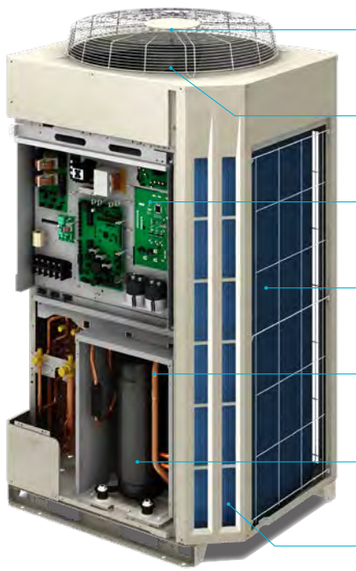

Energy efficiency combination




* These specifications are determined by Cassette combination.

*Multiple outdoor units are not certified by Eurovent.

## The energy-saving technology that boosted operation efficiency



**Powerful large propeller fan**
The fan uses CFD* technology to achieve both high performance and low noise operation. *CFD: Computational Fluid Dynamics

**3-phase DC fan motor**
The use of a DC fan motor with sophisticated driver control improves energy efficiency substantially. In addition, low noise is realized by the DC fan motor.

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

**4-face heat exchanger**
The 4-face heat exchanger increases the effective surface area and significantly improves heat-exchanging efficiency.

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

**High-efficient, large-capacity DC twin-rotary compressor**
Large-capacity high-efficient DC twin-rotary compressor with excellent intermediate capability.

**Front intake port** (Corner cut air inlet structure)
In multiple outdoor unit installations, the unique front intake design improves airflow into the heat exchanger.

**Outdoor units lineup** • Combinations other than those listed below are not recommended.

## Space saving combination

| | | | | |
|---|---|---|---|---|
| 22.4 kW (8 HP) | 28.0 kW (10 HP) | 33.5 kW (12 HP) | 40.0 kW (14 HP) | 45.0 kW (16 HP) |
|  |  |  |  |  |
| AJY072LALDH | AJY090LALDH | AJY108LALDH | AJY126LALDH | AJY144LALDH |
| UNIT: AJY072LALDH | UNIT: AJY090LALDH | UNIT: AJY108LALDH | UNIT: AJY126LALDH | UNIT: AJY144LALDH |
| 50.4 kW (18 HP) | 56.0 kW (20 HP) | 62.4 kW (22 HP) | 68.0 kW (24 HP) | 73.0 kW (26 HP) |
|  |  |  |  |  |
| AJY162LALDH | AJY180LALDH | AJY198LALDH | AJY216LALDH | AJY234LALDH |
| UNIT: AJY090/072LALDH | UNIT: AJY090/090LALDH | UNIT: AJY126/072LALDH | UNIT: AJY126/090LALDH | UNIT: AJY144/090LALDH |
| 78.5 kW (28 HP) | 85.0 kW (30 HP) | 90.0 kW (32 HP) | 95.4 kW(34 HP) | 101.0 kW (36 HP) |
|  |  |  |  |  |
| AJY252LALDH | AJY270LALDH | AJY288LALDH | AJY306LALDH | AJY324LALDH |
| UNIT: AJY144/108LALDH | UNIT: AJY144/126LALDH | UNIT: AJY144/144LALDH | UNIT: AJY144/090/072LALDH | UNIT: AJY144/090/090LALDH |
| 106.5 kW (38 HP) | 113.0 kW (40 HP) | 118.0 kW (42 HP) | 123.5 kW (44 HP) | 130.0 kW (46 HP) |
|  |  |  |  |  |
| AJY342LALDH | AJY360LALDH | AJY378LALDH | AJY396LALDH | AJY414LALDH |
| UNIT: AJY144/108/090LALDH | UNIT: AJY144/126/090LALDH | UNIT: AJY144/144/090LALDH | UNIT: AJY144/144/108LALDH | UNIT: AJY144/144/126LALDH |
| 135.0 kW (48 HP) | | | | |
|  | | | | |
| AJY432LALDH | | | | |
| UNIT: AJY144/144/144LALDH | | | | |

## Energy efficiency combination

| | | | | |
|---|---|---|---|---|
| 44.8 kW (16 HP) | 55.9 kW (20 HP) | 67.2 kW (24 HP) | 72.8 kW (26 HP) | 78.3 kW (28 HP) |
|  |  |  |  |  |
| AJY144LALDHH | AJY180LALDHH | AJY216LALDHH | AJY234LALDHH | AJY252LALDHH |
| UNIT: AJY072/072LALDH | UNIT: AJY108/072LALDH | UNIT: AJY072/072/072LALDH | UNIT: AJY090/072/072LALDH | UNIT: AJY108/072/072LALDH |
| 84.8 kW (30 HP) | 89.4 kW (32 HP) | 95.9 kW (34 HP) | 100.5 kW (36 HP) | 107.0 kW (38 HP) |
|  |  |  |  |  |
| AJY270LALDHH | AJY288LALDHH | AJY306LALDHH | AJY324LALDHH | AJY342LALDHH |
| UNIT: AJY126/072/072LALDH | UNIT: AJY108/108/072LALDH | UNIT: AJY126/108/072LALDH | UNIT: AJY108/108/108LALDH | UNIT: AJY126/108/108LALDH |
| 113.5 kW (40 HP) | 120.0 kW (42 HP) | 125.0 kW (44 HP) | | |
|  |  |  | | |
| AJY360LALDHH | AJY378LALDHH | AJY396LALDHH | | |
| UNIT: AJY126/126/108LALDH | UNIT: AJY126/126/126LALDH | UNIT: AJY144/126/126LALDH | | |





**8, 10 HP: AJY072LALDH / AJY090LALDH**
**12, 14, 16 HP: AJY108LALDH / AJY126LALDH / AJY144LALDH**

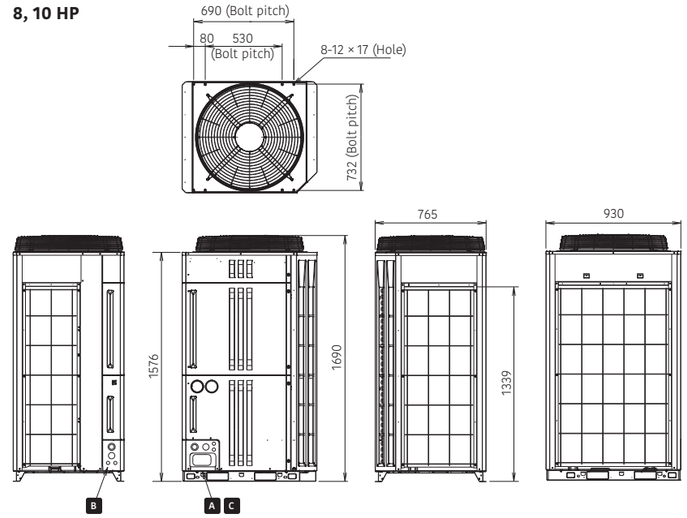
8, 10 HP

12, 14, 16 HP

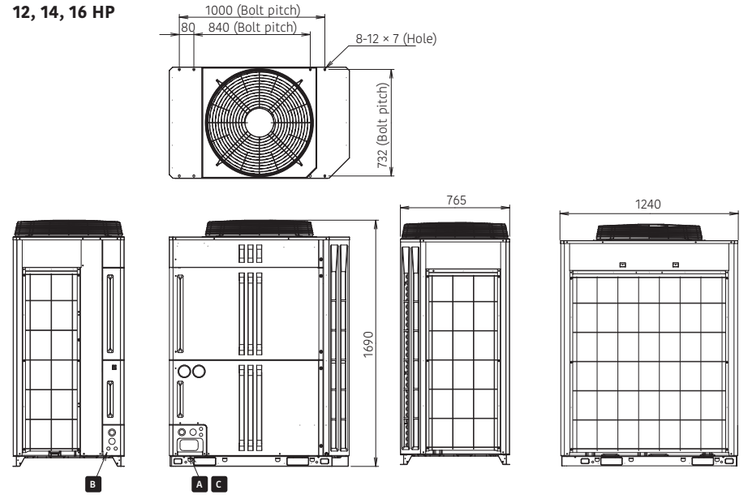
## Dimensions

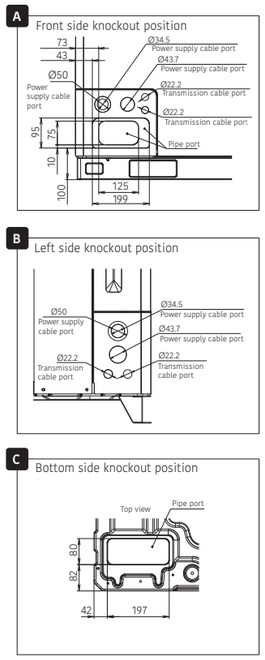
(Unit: mm)

**8, 10 HP**




**12, 14, 16 HP**



## Outdoor unit specifications

### Space saving combination

| Rated capacity range | | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model name | | | AJY072LALDH | AJY090LALDH | AJY108LALDH | AJY126LALDH | AJY144LALDH | AJY162LALDH | AJY180LALDH | AJY198LALDH | AJY216LALDH | AJY234LALDH | AJY252LALDH | AJY270LALDH | AJY288LALDH | AJY306LALDH | AJY324LALDH | AJY342LALDH | AJY360LALDH | AJY378LALDH | AJY396LALDH | AJY414LALDH | AJY432LALDH |
| Unit 1<br>Unit 2<br>Unit 3 | | | AJY072LALDH | AJY090LALDH | AJY108LALDH | AJY126LALDH | AJY144LALDH | AJY090LALDH<br>AJY072LALDH | AJY090LALDH<br>AJY090LALDH | AJY126LALDH<br>AJY072LALDH | AJY126LALDH<br>AJY090LALDH | AJY144LALDH<br>AJY090LALDH | AJY144LALDH<br>AJY108LALDH | AJY144LALDH<br>AJY126LALDH | AJY144LALDH<br>AJY144LALDH | AJY144LALDH<br>AJY090LALDH<br>AJY072LALDH | AJY144LALDH<br>AJY090LALDH<br>AJY090LALDH | AJY144LALDH<br>AJY108LALDH<br>AJY090LALDH | AJY144LALDH<br>AJY126LALDH<br>AJY090LALDH | AJY144LALDH<br>AJY144LALDH<br>AJY090LALDH | AJY144LALDH<br>AJY144LALDH<br>AJY108LALDH | AJY144LALDH<br>AJY144LALDH<br>AJY126LALDH | AJY144LALDH<br>AJY144LALDH<br>AJY144LALDH |
| Maximum connectable indoor units*1 | | | 17 | 21 | 26 | 30 | 34 | 39 | 43 | 47 | 52 | 56 | 60 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| Connectable capacity range of indoor units | | kW | 11.2-33.6 | 14.0-42.0 | 16.8-50.2 | 20.0-60.0 | 22.5-67.5 | 25.2-75.6 | 28.0-84.0 | 31.2-93.6 | 34.0-102.0 | 36.5-109.5 | 39.3-117.7 | 42.5-127.5 | 45.0-135.0 | 47.7-143.1 | 50.5-151.5 | 53.3-159.7 | 56.5-169.5 | 59.0-177.0 | 61.8-185.2 | 65.0-195.0 | 67.5-202.5 |
| Power source | | | 3-phase, 4-wire, ~400 V, 50 Hz | | | | | | | | | 3-phase, 4-wire, ~400 V, 50 Hz | | | | | | | | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0 | 62.4 | 68.0 | 73.0 | 78.5 | 85.0 | 90.0 | 95.4 | 101.0 | 106.5 | 113.0 | 118.0 | 123.5 | 130.0 | 135.0 |
| | Nominal Heating | | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0 | 62.4 | 68.0 | 73.0 | 78.5 | 85.0 | 90.0 | 95.4 | 101.0 | 106.5 | 113.0 | 118.0 | 123.5 | 130.0 | 135.0 |
| | Max. Heating | | 25.0 | 31.5 | 37.5 | 45.0 | 48.0 | 56.5 | 63.0 | 70.0 | 76.5 | 79.5 | 85.5 | 93.0 | 96.0 | 104.5 | 111.0 | 117.0 | 124.5 | 127.5 | 133.5 | 141.0 | 144.0 |
| Input power | Cooling | kW | 5.95 | 9.06 | 9.54 | 13.18 | 16.74 | 15.01 | 18.12 | 19.13 | 22.24 | 25.80 | 26.28 | 29.92 | 33.48 | 31.75 | 34.86 | 35.34 | 38.98 | 42.54 | 43.02 | 46.66 | 50.22 |
| | Nominal Heating | | 5.42 | 7.44 | 7.76 | 11.74 | 13.76 | 12.86 | 14.88 | 17.16 | 19.18 | 21.20 | 21.52 | 25.50 | 27.52 | 26.62 | 28.64 | 28.96 | 32.94 | 34.96 | 35.28 | 39.26 | 41.28 |
| | Max. Heating | | 6.26 | 8.98 | 9.48 | 14.00 | 15.02 | 15.24 | 17.96 | 20.26 | 22.98 | 24.00 | 24.50 | 29.02 | 30.04 | 30.26 | 32.98 | 33.48 | 38.00 | 39.02 | 39.52 | 44.04 | 45.06 |
| EER | Cooling | W/W | 3.76 | 3.09 | 3.51 | 3.03 | 2.68 | 3.36 | 3.09 | 3.26 | 3.06 | 2.83 | 2.99 | 2.84 | 2.69 | 3.00 | 2.90 | 3.01 | 2.90 | 2.77 | 2.87 | 2.79 | 2.69 |
| COP | Nominal Heating | | 4.13 | 3.76 | 4.31 | 3.41 | 3.27 | 3.92 | 3.76 | 3.64 | 3.55 | 3.44 | 3.65 | 3.33 | 3.27 | 3.58 | 3.53 | 3.68 | 3.43 | 3.38 | 3.50 | 3.31 | 3.27 |
| | Max. Heating | | 3.99 | 3.50 | 3.95 | 3.21 | 3.19 | 3.71 | 3.51 | 3.46 | 3.33 | 3.31 | 3.49 | 3.20 | 3.20 | 3.45 | 3.37 | 3.49 | 3.28 | 3.27 | 3.38 | 3.20 | 3.20 |
| SEER | Cooling | | 7.09 | 6.56 | 7.33 | 6.67 | 6.18 | 6.83 | 6.56 | 6.64 | 6.62 | 6.37 | 6.76 | 6.43 | 6.18 | 6.61 | 6.43 | 6.69 | 6.47 | 6.31 | 6.56 | 6.34 | 6.18 |
| SCOP | Heating | | 3.83 | 3.80 | 4.19 | 4.19 | 4.27 | 3.82 | 3.80 | 4.05 | 4.00 | 4.04 | 4.23 | 4.23 | 4.27 | 3.97 | 3.96 | 4.09 | 4.09 | 4.11 | 4.24 | 4.24 | 4.27 |
| ηc | Cooling | % | 281.0 | 259.0 | 290.0 | 264.0 | 244.0 | 270.0 | 259.0 | 262.5 | 261.5 | 251.5 | 267.0 | 254.0 | 244.0 | 261.3 | 254.0 | 264.3 | 255.7 | 249.0 | 259.3 | 250.7 | 244.0 |
| ηh | Heating | | 150.0 | 149.0 | 165.0 | 165.0 | 168.0 | 149.5 | 149.0 | 159.0 | 157.0 | 158.5 | 166.5 | 166.5 | 168.0 | 155.7 | 155.3 | 160.7 | 160.7 | 161.7 | 167.0 | 167.0 | 168.0 |
| Air flow rate | High | $m^3/h$ | 11,100 | 11,100 | 13,000 | 13,000 | 13,700 | 11,100×2 | 11,100 × 2 | 13,000 + 11,100 | 13,000 + 11,100 | 13,700 + 11,100 | 13,700 + 13,000 | 13,700 + 13,000 | 13,700 × 2 | 13,700+11,100×2 | 13,700+11,100×2 | 13,700+13,000+11,100 | 13,700 + 13,000 + 11,100 | 13,700 × 2 + 11,100 | 13,700×2+13,000 | 13,700×2+13,000 | 13,700 × 3 |
| Sound pressure level*2/ Power level | Cooling | dB(A) | 58 / 79 | 58 / 79 | 58 / 81 | 62 / 84 | 63 / 86 | 61 / 82 | 61 / 82 | 63 / 85 | 63 / 85 | 64 / 87 | 64 / 87 | 66 / 88 | 66 / 89 | 65 / 87 | 65 / 87 | 65 / 88 | 66 / 89 | 67 / 89 | 67 / 90 | 67 / 90 | 68 / 91 |
| | Heating | | 59 / 80 | 60 / 81 | 60 / 83 | 64 / 85 | 65 / 87 | 63 / 84 | 63 / 84 | 65 / 86 | 65 / 86 | 66 / 88 | 66 / 88 | 68 / 89 | 68 / 90 | 67 / 89 | 67 / 89 | 67 / 89 | 68 / 90 | 69 / 91 | 69 / 91 | 69 / 91 | 70 / 92 |
| Max. External static pressure | | Pa | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Compressor motor output | | kW | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 7.5×2 | 7.5 × 2 | 11.0 + 7.5 | 11.0 + 7.5 | 11.0 + 7.5 | 11.0×2 | 11.0 × 2 | 11.0 × 2 | 11.0+7.5×2 | 11.0+7.5×2 | 11.0 × 2 + 7.5 | 11.0 × 2 + 7.5 | 11.0 × 2 + 7.5 | 11.0×3 | 11.0×3 | 11.0×3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930 | 930 | 1,240 | 1,240 | 1,240 | 930 × 2 | 930 × 2 | 1,240 + 930 | 1,240 + 930 | 1,240 + 930 | 1,240 × 2 | 1,240 × 2 | 1,240 × 2 | 1,240 + 930 × 2 | 1,240 + 930 × 2 | 1,240 × 2 + 930 | 1,240 × 2 + 930 | 1,240 × 2 + 930 | 1,240 × 3 | 1,240 × 3 | 1,240 × 3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 252 | 252 | 275 | 275 | 275 | 252 × 2 | 252 × 2 | 275 + 252 | 275 + 252 | 275 + 252 | 275 × 2 | 275 × 2 | 275 × 2 | 275 + 252 × 2 | 275 + 252 × 2 | 275 × 2 + 252 | 275 × 2 + 252 | 275 × 2 + 252 | 275 × 3 | 275 × 3 | 275 × 3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg (CO2eq-T) | 11.7 (24.4) | 11.7 (24.4) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.7 × 2 (24.4 × 2) | 11.7 × 2 (24.4 × 2) | 11.8 + 11.7 (24.6 + 24.4) | 11.8 + 11.7 (24.6 + 24.4) | 11.8 + 11.7 (24.6 × 2 + 24.4) | 11.8 × 2 + 11.7 (24.6 × 2 + 24.4) | 11.8 × 2 (24.6 × 2) | 11.8 × 2 (24.6 × 2) | 11.8 + 11.7 × 2 (24.6 + 24.4 × 2) | 11.8 + 11.7 × 2 (24.6 + 24.4 × 2) | 11.8 × 2 + 11.7 (24.6 × 2 + 24.4) | 11.8 × 2 + 11.7 (24.6 × 2 + 24.4) | 11.8 × 2 + 11.7 (24.6 × 2 + 24.4) | 11.8 + 11.7 × 2 (24.6 × 2 + 24.4) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 12.70 | 12.70 | 12.70 | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Gas | | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operating Range | Cooling | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

### Energy Efficiency Combination

| Rated capacity range | | HP | 16 | 20 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model name | | | AJY144LALDHH | AJY180LALDHH | AJY216LALDHH | AJY234LALDHH | AJY252LALDHH | AJY270LALDHH | AJY288LALDHH | AJY306LALDHH | AJY324LALDHH | AJY342LALDHH | AJY360LALDHH | AJY378LALDHH | AJY396LALDHH |
| Unit 1<br>Unit 2<br>Unit 3 | | | AJY072LALDH<br>AJY072LALDH | AJY108LALDH<br>AJY072LALDH | AJY072LALDH<br>AJY072LALDH<br>AJY072LALDH | AJY090LALDH<br>AJY072LALDH<br>AJY072LALDH | AJY108LALDH<br>AJY072LALDH<br>AJY072LALDH | AJY126LALDH<br>AJY072LALDH<br>AJY072LALDH | AJY108LALDH<br>AJY108LALDH<br>AJY072LALDH | AJY126LALDH<br>AJY108LALDH<br>AJY072LALDH | AJY108LALDH<br>AJY108LALDH<br>AJY108LALDH | AJY126LALDH<br>AJY108LALDH<br>AJY108LALDH | AJY126LALDH<br>AJY126LALDH<br>AJY108LALDH | AJY126LALDH<br>AJY126LALDH<br>AJY126LALDH | AJY144LALDH<br>AJY126LALDH<br>AJY126LALDH |
| Maximum connectable indoor units*1 | | | 34 | 43 | 52 | 56 | 60 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| Connectable capacity range of indoor units | | kW | 22.4-67.2 | 28.0-83.8 | 33.6-100.8 | 36.4-109.2 | 39.2-117.4 | 42.4-127.2 | 44.7-134.1 | 48.0-143.8 | 50.3-150.7 | 53.5-160.5 | 56.8-170.2 | 60.0-180.0 | 62.5-187.5 |
| Power source | | | 3-phase, 4-wire, ~400 V, 50 Hz | | | | | | 3-phase, 4-wire, ~400 V, 50 Hz | | | | | | |
| Capacity | Cooling | kW | 44.8 | 55.9 | 67.2 | 72.8 | 78.3 | 84.8 | 89.4 | 95.9 | 100.5 | 107.0 | 113.5 | 120.0 | 125.0 |
| | Nominal Heating | | 44.8 | 55.9 | 67.2 | 72.8 | 78.3 | 84.8 | 89.4 | 95.9 | 100.5 | 107.0 | 113.5 | 120.0 | 125.0 |
| | Max. Heating | | 50.0 | 62.5 | 75.0 | 81.5 | 87.5 | 95.0 | 100.0 | 107.5 | 112.5 | 120.0 | 127.5 | 135.0 | 138.0 |
| Input power | Cooling | kW | 11.90 | 15.49 | 17.85 | 20.96 | 21.44 | 25.08 | 25.03 | 28.67 | 28.62 | 32.26 | 35.90 | 39.54 | 43.10 |
| | Nominal Heating | | 10.84 | 13.18 | 16.26 | 18.28 | 18.60 | 22.58 | 20.94 | 24.92 | 23.28 | 27.26 | 31.24 | 35.22 | 37.24 |
| | Max. Heating | | 12.52 | 15.74 | 18.78 | 21.50 | 22.00 | 26.52 | 25.22 | 29.74 | 28.44 | 32.96 | 37.48 | 42.00 | 43.02 |
| EER | Cooling | W/W | 3.76 | 3.61 | 3.76 | 3.47 | 3.65 | 3.38 | 3.57 | 3.34 | 3.51 | 3.32 | 3.16 | 3.03 | 2.90 |
| COP | Nominal Heating | | 4.13 | 4.24 | 4.13 | 3.98 | 4.21 | 3.76 | 4.27 | 3.85 | 4.32 | 3.93 | 3.63 | 3.41 | 3.36 |
| | Max. Heating | | 3.99 | 3.97 | 3.99 | 3.79 | 3.98 | 3.58 | 3.97 | 3.61 | 3.96 | 3.64 | 3.40 | 3.21 | 3.21 |
| SEER | Cooling | | 7.09 | 7.21 | 7.09 | 6.91 | 7.17 | 6.79 | 7.25 | 7.03 | 7.33 | 7.11 | 6.89 | 6.67 | 6.51 |
| SCOP | Heating | | 3.83 | 4.01 | 3.83 | 3.82 | 3.95 | 3.98 | 4.07 | 4.07 | 4.19 | 4.19 | 4.19 | 4.19 | 4.22 |
| ηc | Cooling | % | 281.0 | 285.5 | 281.0 | 273.7 | 284.0 | 275.3 | 287.0 | 278.3 | 290.0 | 281.3 | 272.7 | 264.0 | 257.3 |
| ηh | Heating | | 150.0 | 157.5 | 150.0 | 149.7 | 155.0 | 155.0 | 160.0 | 160.0 | 165.0 | 165.0 | 165.0 | 165.0 | 166.0 |
| Air flow rate | High | $m^3/h$ | 11,100 × 2 | 13,000 + 11,100 | 11,100 × 3 | 11,000 × 3 | 13,000 + 11,100 × 2 | 13,000 + 11,100 × 2 | 13,000 × 2 + 11,100 | 13,000 × 2 + 11,100 | 13,000 × 3 | 13,000 × 3 | 13,000 × 3 | 13,000 × 3 | 13,700 + 13,000 × 2 |
| Sound pressure level*2/ Power level | Cooling | dB(A) | 61 / 82 | 61 / 83 | 63 / 84 | 63 / 84 | 63 / 85 | 65 / 86 | 63 / 85 | 65 / 87 | 63 / 86 | 65 / 87 | 66 / 88 | 67 / 89 | 67 / 90 |
| | Heating | | 62 / 83 | 63 / 85 | 64 / 85 | 64 / 85 | 64 / 86 | 66 / 87 | 64 / 87 | 66 / 88 | 65 / 88 | 67 / 89 | 68 / 89 | 69 / 90 | 69 / 91 |
| Max. External static pressure | | Pa | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Compressor motor output | | kW | 7.5 × 2 | 11.0 + 7.5 | 7.5 × 3 | 7.5 × 3 | 11.0 + 7.5 × 2 | 11.0 + 7.5 × 2 | 11.0 × 2 + 7.5 | 11.0 × 2 + 7.5 | 11.0 × 3 | 11.0 × 3 | 11.0 × 3 | 11.0 × 3 | 11.0 × 3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930 × 2 | 1,240 + 930 | 930 × 3 | 930 × 3 | 1,240 + 930 × 2 | 1,240 + 930 × 2 | 1,240 × 2 + 930 | 1,240 × 2 + 930 | 1,240 × 3 | 1,240 × 3 | 1,240 × 3 | 1,240 × 3 | 1,240 × 3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 252 × 2 | 275 + 252 | 252 × 3 | 252 × 3 | 275 + 252 × 2 | 275 + 252 × 2 | 275 × 2 + 252 | 275 × 2 + 252 | 275 × 3 | 275 × 3 | 275 × 3 | 275 × 3 | 275 × 3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg (CO2eq-T) | 11.7 × 2 (24.4 × 2) | 11.8 + 11.7 (24.6 + 24.4) | 11.7 × 3 (24.4 × 3) | 11.7 × 3 (24.4 × 3) | 11.8 + 11.7 × 2 (24.6 + 24.4 × 2) | 11.8 + 11.7 × 2 (24.6 + 24.4 × 2) | 11.8 × 2 + 11.7 (24.6 × 2 + 24.4) | 11.8 × 2 + 11.7 (24.6 × 2 + 24.4) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) | 11.8 × 3 (24.6 × 3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Gas | | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operating Range | Cooling | °CDB | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

Note: Specifications are subject to 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.

When cooling operation is be conducted at an outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to that of the indoor units.
*These specifications are determined by ducted combination.
*Multiple outdoor units are not certified by Eurovent.

*1 Minimum connectable indoor unit number is 2.
However, the ARXC72 and ARXC90 can be used with a signal connection.
*2 The noise level is the value measured in an anechoic room.

When measured in an actual installation, the measured value is typically larger than the indicated value due to ambient noise and reflections.
* These specifications are determined by ducted combination.

# VRF INDOOR UNITS

**17 types and 95 models available to meet the requirements of any building design.**

Indoor units for the VRF Systems are compact, highly efficient, quiet, and user-friendly. Fujitsu General offers a variety of types and capacities for its indoor units that are easy to install and maintain. In addition, a variety of optional parts are available to provide an even more desirable air conditioning experience to users.



# VRF Indoor Unit Lineup for J-VS

| Capacity range (kW) | | | | 1.1 | 1.7 | 2.2 | 2.8 | 3.6 | 4.0 | 4.5 | 5.6 | 7.1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Class | | | | 4 | 5 | 7 | 9 | 12 | 14 | 14 | 18 | 24 |
| Cassette | Compact type | Compact<br>Grid type/Standard type |  | AUXB004HLAH | AUXB005HLAH | AUXB007HLAH | AUXB009HLAH | AUXB012HLAH | | AUXB014HLAH | AUXB018HLAH | |
| | | High Efficiency*1 |  | | | | AUXN009HLAH | AUXN012HLAH | | AUXN014HLAH | | |
| Duct | Low Static Pressure Duct | Slim Duct<br>(With drain pump) |  <br>004 - 014 018 024 | ARXD004HLAH | ARXD005HLAH | ARXD007HLAH | ARXD009HLAH | ARXD012HLAH | | ARXD014HLAH | ARXD018HLAH | ARXD024HLAH |
| | | High Efficiency*1 |  <br>009 - 014 | | | | ARXP009HLAH | ARXP012HLAH | | ARXP014HLAH | | |
| Wall-mounted type | | Wall-mounted type |  <br>004 - 014 | ASYA004HCAH | ASYA005HCAH | ASYA007HCAH | ASYA009HCAH | ASYA012HCAH | ASYA014HCAH | | | |
| | | Wall-mounted type<br>(EEV external) |  <br>004 - 014 | ASYE004HCAH | ASYE005HCAH | ASYE007HCAH | ASYE009HCAH | ASYE012HCAH | ASYE014HCAH | | | |
| | | | | This model requires the EV kit to be connected. | | | This model requires the EV kit to be connected. | | | | | |

*1: Production by order
Specifications and design are subject to change without notice.
*Products other than ducts can be connected to J-IV, J-IVS, J-IVL, V-IV, VR-IV

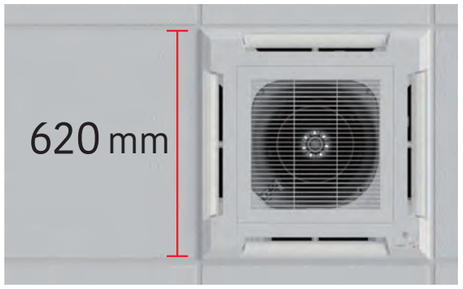
# Compact Cassette

Grid type

DC FAN

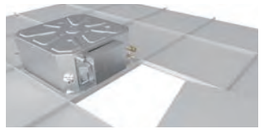
## Compact and stylish panel

The compact and stylish panel fits nicely into a grid type ceiling. The linear design is a perfect fit into a grid of 620 mm × 620 mm in the ceiling.




## Easy maintenance

You can access the unit for maintenance just by removing a ceiling panel right next to the grille. As no inspection hole needs to be cut through the ceiling, no additional construction cost is incurred.



The air inlet grille can be installed to open in any direction for easy maintenance.

## Flexible installation

The unit fits nicely into the decor of a grid type ceiling and can be installed near a lighting or a ventilation opening.

## High ceiling mode

The cassette can be installed up to a height of 3.0 m. (012/014/018).

| Model code | Maximum height from floor to ceiling (m) | |
|---|---|---|
| | **Standard mode** | **High ceiling mode** |
| 004 | 2.7 | – |
| 005 | 2.7 | – |
| 007 | 2.7 | – |
| 009 | 2.7 | – |
| 012 | 2.7 | 3.0 |
| 014 | 2.7 | 3.0 |
| 018 | 2.7 | 3.0 |



**Model: AUXB004HLAH / AUXB005HLAH / AUXB007HLAH / AUXB009HLAH**
**AUXB012HLAH / AUXB014HLAH / AUXB018HLAH**

**AUXN009HLAH / AUXN012HLAH / AUXN014HLAH * Production by order**

## Specifications

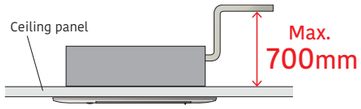
| Model name | | | AUXB004HLAH | AUXB005HLAH | AUXB007HLAH | AUXB009HLAH | AUXB012HLAH | AUXB014HLAH | AUXB018HLAH | AUXN009HLAH | AUXN012HLAH | AUXN014HLAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, 220-240V, 50Hz | | | | | | | Single phase, 220-240V, 50Hz | | |
| Capacity | Cooling | kW | 1.1 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 2.8 | 3.6 | 4.5 |
| | Heating | | 1.3 | 1.9 | 2.8 | 3.2 | 4.1 | 5.0 | 6.3 | 3.2 | 4.1 | 5.0 |
| Input power | | W | 21 | 21 | 23 | 24 | 27 | 33 | 50 | 41 | 71 | 81 |
| Airflow rate (Cooling / Heating)* | High | $m^3/h$ | 530 | 530 | 540 | 550 | 600 | 680 | 820 | 750 | 970 | 1,030 |
| | Med-High | | 490 / 480 | 490 / 480 | 500 | 520 | 560 | 620 | 660 | 550 | 600 | 680 |
| | Med | | 450 / 430 | 450 / 430 | 460 | 480 | 520 | 560 | 590 | 480 | 520 | 560 |
| | Med-Low | | 420 / 380 | 420 / 380 | 420 | 440 | 480 | 500 | 520 | 440 | 480 | 500 |
| | Low | | 390 / 340 | 390 / 340 | 390 | 400 | 430 | 440 | 460 | 400 | 430 | 440 |
| | Quiet | | 350 / 300 | 350 / 300 | 350 | 350 | 390 | 390 | 400 | 350 | 390 | 390 |
| Sound pressure level (Cooling / Heating)* | High | dB(A) | 34 | 34 | 34 | 35 | 37 | 39 | 45 | 42 | 49 | 50 |
| | Med-High | | 32 / 31 | 32 / 31 | 32 | 33 | 34 | 37 | 39 | 35 | 37 | 39 |
| | Med | | 30 / 29 | 30 / 29 | 30 | 31 | 33 | 34 | 36 | 31 | 33 | 34 |
| | Med-Low | | 28 / 26 | 28 / 26 | 28 | 29 | 31 | 32 | 33 | 29 | 31 | 32 |
| | Low | | 27 / 24 | 27 / 24 | 27 | 27 | 29 | 30 | 30 | 27 | 29 | 30 |
| | Quiet | | 25 / 21 | 25 / 21 | 25 | 25 | 27 | 27 | 27 | 25 | 27 | 27 |
| Net Dimensions (H × W × D) | | mm | 245 × 570 × 570 | | | | | | | 245 × 570 × 570 | | |
| Weight | | kg | 14.5 | 14.5 | 15 | 15 | 15.5 | 15.5 | 17 | 15 | 15.5 | 15.5 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 |
| | Gas (Flare) | | 9.52 | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 9.52 | 12.70 | 12.70 |
| Drain Hose Diameter (I.D./O.D.) | | | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 |
| Cassette Grille | Model name | | UTG-UFYH-W | | | | | | | UTG-UFYH-W | | |
| | Net Dimensions (H × W × D) | mm | 49 × 620 × 620 | | | | | | | 49 × 620 × 620 | | |
| | Weight | kg | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |

Note: Specifications are subject to 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. Voltage: 230 [V]
*The value is the same for cooling and heating if there is one value.

## Optional parts

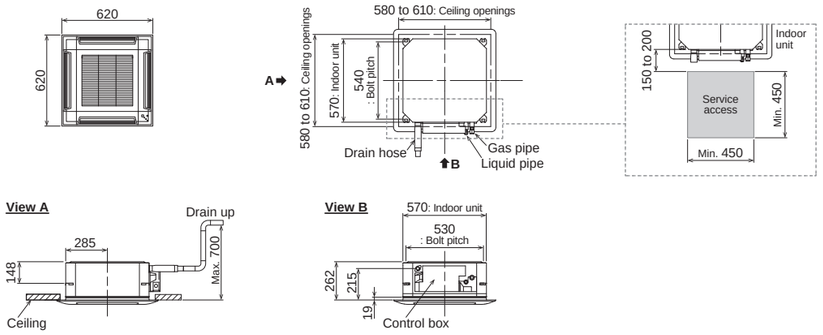
*For more details, please refer to the chapter "Optional parts".

| | | | |
|---|---|---|---|
| Wireless remote controller: | UTY-LNVY | WLAN adapter: | UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1 |
| Flesh Air Intake Kit: | UTZ-VXAA | | |
| Insulation kit for high humidity: | UTZ-KXGC | Gas sensor kit: | UTY-SGZY |
| Silver Ion Filter: | UTD-HFAA | Expansion kit: | UTZ-JXXA |
| Remote sensor kit: | UTY-XSZXZ1 | Air Outlet Shutter Plate: | UTR-YDZB |
| Cassette Grille: | UTG-UFYH-W | | |




## Dimensions

(Unit: mm)

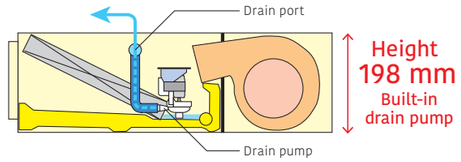


# Low Static Pressure Duct
# Slim Duct

DC FAN

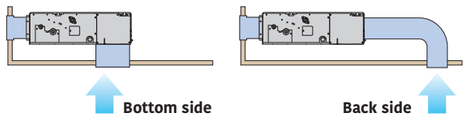
## Slim design

Slim design allows for installation in a tight ceiling space.




## Air intake

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




## Wide range of static pressures

The use of a DC fan motor makes it possible to adjust the static pressure between 0 and 90 Pa.
The static pressure range can be changed by a remote controller.

Static pressure range
0 to 90 Pa

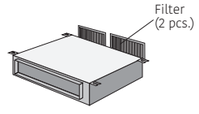
* 024 model static pressure range is 0 to 50 Pa.

## Auto louver grille kit (Option)

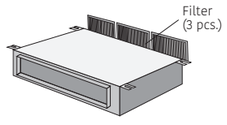
The optional clean-looking flat Auto louver blends into any interior and provides a comfortable airflow.

## Filter (Accessory)

ARXD004-018




ARXD024

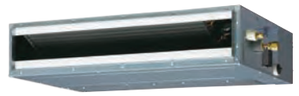




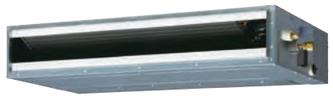

**Model: ARXD004HLAH / ARXD005HLAH / ARXD007HLAH / ARXD009HLAH**
**ARXD012HLAH / ARXD014HLAH / ARXD018HLAH / ARXD024HLAH**

**ARXP009HLAH / ARXP012HLAH / ARXP014HLAH * Production by order**

ARXD004/005/007/009/012/014HLAH
ARXP009/012/014HLAH



ARXK018HLAH



ARXK024HLAH

## Specifications

| Model name | | | ARXD004HLAH | ARXD005HLAH | ARXD007HLAH | ARXD009HLAH | ARXD012HLAH | ARXD014HLAH | ARXD018HLAH | ARXD024HLAH | ARXP009HLAH | ARXP012HLAH | ARXP014HLAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, 220-240V, 50Hz | | | | | | | | Single phase, 220-240V, 50Hz | | |
| Capacity | Cooling | kW | 1.1 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 2.8 | 3.6 | 4.5 |
| | Heating | | 1.3 | 1.9 | 2.8 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 3.2 | 4.0 | 5.0 |
| Input power | | W | 38 | 38 | 41 | 47 | 48 | 84 | 76 | 107 | 77 | 128 | 128 |
| Airflow rate | High | $m^3/h$ | 530 | 530 | 550 | 600 | 580 | 790 | 930 | 1,250 | 770 | 940 | 940 |
| | Med-High | | 480 | 480 | 520 | 550 | 550 | 720 | 880 | 1,180 | 630 | 810 | 810 |
| | Med | | 440 | 440 | 480 | 500 | 520 | 640 | 780 | 1,060 | 530 | 660 | 660 |
| | Med-Low | | 410 | 410 | 450 | 460 | 480 | 560 | 670 | 930 | 480 | 580 | 580 |
| | Low | | 370 | 370 | 400 | 400 | 430 | 470 | 580 | 810 | 430 | 490 | 490 |
| | Quiet | | 320 | 320 | 360 | 360 | 350 | 370 | 510 | 640 | 380 | 390 | 390 |
| Static pressure range | | Pa | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 50 | 0 to 25 | 0 to 25 | 0 to 25 |
| Standard static pressure | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Sound pressure level | High | dB(A) | 26 | 26 | 28 | 29 | 30 | 34 | 34 | 35 | 36 | 40 | 40 |
| | Med-High | | 26 | 26 | 26 | 27 | 28 | 32 | 31 | 32 | 32 | 38 | 38 |
| | Med | | 25 | 25 | 25 | 25 | 27 | 30 | 29 | 30 | 28 | 33 | 33 |
| | Med-Low | | 24 | 24 | 24 | 24 | 26 | 28 | 27 | 27 | 27 | 31 | 31 |
| | Low | | 22 | 22 | 22 | 22 | 24 | 25 | 25 | 24 | 25 | 27 | 27 |
| | Quiet | | 21 | 21 | 21 | 21 | 22 | 22 | 23 | 21 | 23 | 24 | 24 |
| Net Dimensions (H × W × D) | | mm | 198 × 700 × 620 | | | | | | 198 × 900 × 620 | 198 × 1,100 × 620 | 198 × 700 × 620 | | |
| Weight | | kg | 16 | 16 | 16.5 | 16.5 | 17 | 17 | 21 | 25 | 16.5 | 17 | 17 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 9.52 | 6.35 | 6.35 | 6.35 |
| | Gas (Flare) | | 9.52 | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 15.88 | 9.52 | 12.70 | 12.70 |
| Drain Hose Diameter (I.D./O.D.) | | | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 | 25 / 32 |

Note: Specifications are subject to 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. Voltage: 230 [V]
*1: This value is under cooling operation.

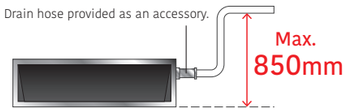
## Optional parts

*For more details, please refer to the chapter "Optional parts".

| | | | |
|---|---|---|---|
| Wireless remote controller: | UTY-LNVY* | Auto Louver Grille Kit: | UTD-GXTA-W (004-014) |
| Remote sensor unit: | UTY-XSZXZ1 | | UTD-GXTB-W (018) |
| IR receiver unit: | UTY-TRHX | | UTD-GXTC-W (024) |
| WLAN adapter: | UTY-TFSXJ3 | Silver Ion Filter: | UTD-HFTA (004-014) |
| | UTY-TFSXZ1 | | UTD-HFTB (018) |
| | FG-AC-WIF1Z1 | | UTD-HFTC (024) |
| Expansion kit: | UTZ-JXXA | Gas sensor kit: | UTY-SGZY |

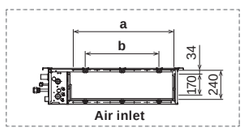
*IR receiver unit (UTY-TRHX) is required.

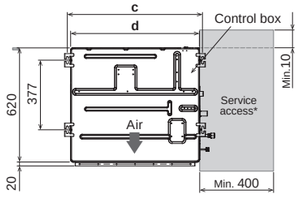
Drain hose provided as an accessory.

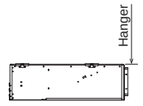


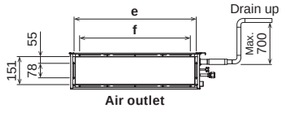

## Dimensions

(Unit: mm)



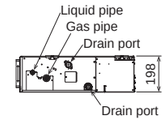




| | ARXD 004-014HLAH | ARXD018HLAH | ARXD024HLAH |
|---|---|---|---|
| a | 574 | 774 | 974 |
| b | P200×2=400 | P200×3=600 | P200x4=800 |
| c | 734 | 934 | 1,134 |
| d | 700 | 900 | 1,100 |
| e | 650 | 850 | 1,050 |
| f | P100×6=600 | P100×8=800 | P100×10=1,000 |

*The design of the service access depends on the installation method. Refer to the installation manual for more information.



# Wall-mounted type

DC FAN

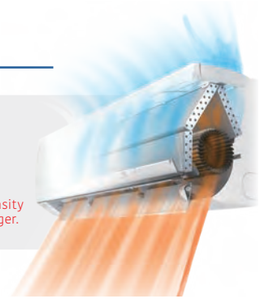
## Highly-efficiency, compact design

The 004-014 models share the same design.
The high-density and large heat exchanger achieves a highly-efficiency and compact design.
The compact body blends in well with conference rooms and offices, providing comfortable air conditioning.

High-density heat exchanger


**Slim tube design: 5 mm**

Greater heat-exchanging capacity is achieved through the use of a high-density heat exchanger and a sub-heat exchanger.

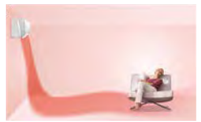


## More comfortable airflow

The unique power diffuser provides comfortable air conditioning.

### Heating

The vertical airflow provides powerful floor-level heating.

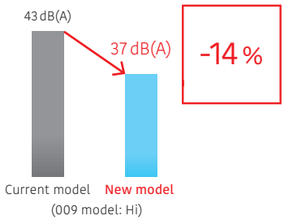



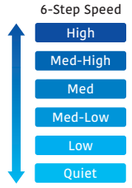
### Cooling

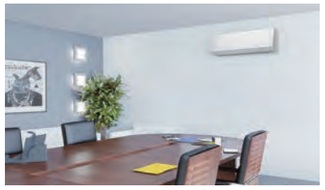
The left/right airflow avoids blowing cool air directly at the occupants in a room.


## Quiet operation & 6-Step fan speed control

The airflow pattern achieves significant noise reduction.
Multistep airflow adjustment to suit the environment



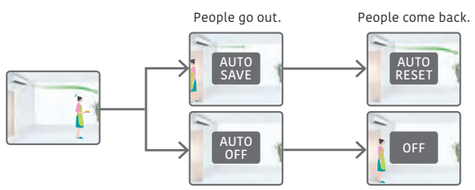



* Remote controller is compatible with the following:
UTY-RVRY / UTY-LNVY / UTY-RNRYZ5 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ2 / UTY-ALGXZ1 / UTY-APGXZ1

## The Occupancy sensor contributes to further energy savings.

Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

* If you want to use the Occupancy sensor control' function, you need an setting device that can set the Occupancy sensor control' function. For example: Wired RC (Touch panel).






**Model: ASYA004HCAH / ASYA005HCAH / ASYA007HCAH**
**ASYA009HCAH / ASYA012HCAH / ASYA014HCAH**

**[external EEV]**
**ASYE004HCAH / ASYE005HCAH / ASYE007HCAH**
**ASYE009HCAH / ASYE012HCAH / ASYE014HCAH**

## Specifications

| Model name | | | ASYA004HCAH | ASYA005HCAH | ASYA007HCAH | ASYA009HCAH | ASYA012HCAH | ASYA014HCAH | ASYE004HCAH | ASYE005HCAH | ASYE007HCAH | ASYE009HCAH | ASYE012HCAH | ASYE014HCAH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, 220-240V, 50Hz | | | | | | Single phase, 220-240V, 50Hz | | | | | |
| Capacity | Cooling | kW | 1.1 | 1.7 | 2.2 | 2.8 | 3.6 | 4.0 | 1.1 | 1.7 | 2.2 | 2.8 | 3.6 | 4.0 |
| | Heating | | 1.3 | 1.9 | 2.8 | 3.2 | 4.0 | 4.5 | 1.3 | 1.9 | 2.8 | 3.2 | 4.0 | 4.5 |
| Input power | | W | 12 | 12 | 16 | 19 | 25 | 35 | 12 | 12 | 16 | 19 | 25 | 35 |
| Airflow rate | High | $m^3/h$ | 450 | 450 | 550 | 590 | 660 | 770 | 450 | 450 | 550 | 590 | 660 | 770 |
| | Med-High | | 430 | 430 | 490 | 550 | 590 | 710 | 430 | 430 | 490 | 550 | 590 | 710 |
| | Med | | 400 | 400 | 450 | 490 | 550 | 650 | 400 | 400 | 450 | 490 | 550 | 650 |
| | Med-Low | | 380 | 380 | 390 | 420 | 510 | 590 | 380 | 380 | 390 | 420 | 510 | 590 |
| | Low | | 360 | 360 | 360 | 360 | 450 | 530 | 360 | 360 | 360 | 360 | 450 | 530 |
| | Quiet | | 310 | 310 | 320 | 320 | 320 | 320 | 310 | 310 | 320 | 320 | 320 | 320 |
| Sound pressure level | High | dB(A) | 31 | 31 | 34 | 37 | 40 | 44 | 31 | 31 | 34 | 37 | 40 | 44 |
| | Med-High | | 30 | 30 | 32 | 34 | 37 | 42 | 30 | 30 | 32 | 34 | 37 | 42 |
| | Med | | 28 | 28 | 30 | 32 | 34 | 40 | 28 | 28 | 30 | 32 | 34 | 40 |
| | Med-Low | | 27 | 27 | 28 | 29 | 33 | 37 | 27 | 27 | 28 | 29 | 33 | 37 |
| | Low | | 26 | 26 | 26 | 26 | 30 | 34 | 26 | 26 | 26 | 26 | 30 | 34 |
| | Quiet | | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Net Dimensions (H × W × D) | | mm | 268 × 840 × 203 | | | | | | 268 × 840 × 203 | | | | | |
| Weight | | kg | 8 | 8 | 8.5 | 8.5 | 8.5 | 8.5 | 8 | 8 | 8.5 | 8.5 | 8.5 | 8.5 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 |
| | Gas (Flare) | | 9.52 | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 | 9.52 | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 |
| Drain Hose Diameter (I.D./O.D.) | | | 13.8/15.8 to16.7 | | | | | | 13.8/15.8 to16.7 | | | | | |
| EV kit (optional) | | | — | — | — | — | — | — | UTR-EV09XC | | | | UTR-EV14XC | |

Note: Specifications are subject to 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. Voltage: 230 [V]
When connecting ASY*004G**H, ASY*007G**H, ASY*009G**H to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø12.70 mm.

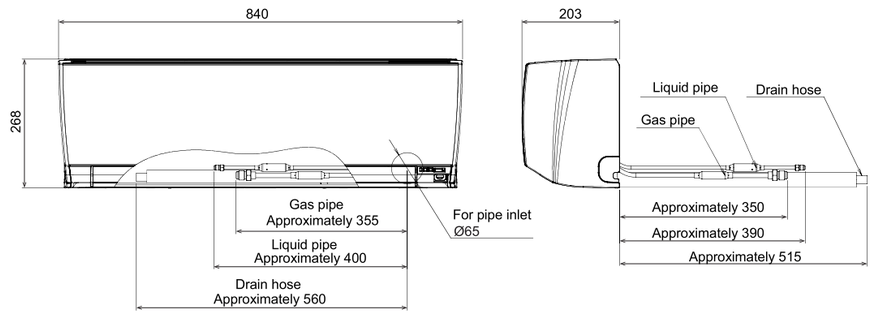
## Optional parts

*For more details, please refer to the chapter "Optional parts".

Wireless remote controller: UTY-LNVY
Silver Ion Filter: UTR-FA16-5
Expansion kit: UTZ-JXXA
Remote sensor kit: UTY-XSZXZ1
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3,FG-AC-WIF1Z1
Gas sensor kit: UTY-SGZY

## Dimensions

(Unit: mm)



# VRF Indoor Unit Lineup for J-IVS J-IV J-IVL VR-IV V-IV

REFRIGERANT R410A

| Capacity range (kW) | | | | 1.1 | 2.2 | 2.8 | 3.6 | 4.0 | 4.5 | 5.6 | 7.1 | 9.0 | 10.0 | 11.2 | 12.5 | 14.0 | 18.0 | 22.4 | 25.0 | 28.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Class | | | | 4 | 7 | 9 | 12 | 14 | 14 | 18 | 24 | 30 | 34 | 36 | 45 | 54 | 60 | 72 | 90 | 96 |
| Cassette | Compact type | Compact<br>Grid type/Standard type |  | AUXB 004 GLEH | AUXB 007 GLEH | AUXB 009 GLEH | AUXB 012 GLEH | | AUXB 014 GLEH | AUXB 018 GLEH | AUXB 024 GLEH | | | | | | | | | |
| | Slim type | Circular Flow |  | | | | | | | AUXM 018 GLEH | AUXM 024 GLEH | AUXM 030 GLEH | | | | | | | | |
| | Large type | Circular Flow |  | | | | | | | AUXK 018 GLEH | AUXK 024 GLEH | AUXK 030 GLEH | AUXK 034 GLEH | AUXK 036 GLEH | AUXK 045 GLEH | AUXK 054 GLEH | | | | |
| | One-way Flow type | One-way Flow |  004 - 012  014 - 024 | AUXV 004 GLEH | AUXV 007 GLEH | AUXV 009 GLEH | AUXV 012 GLEH | | AUXV 014 GLEH | AUXV 018 GLEH | AUXV 024 GLEH | | | | | | | | | |
| | 3D Flow type | 3D Flow |  | | | | | | | AUXS 018 GLEH | AUXS 024 GLEH | | | | | | | | | |
| Duct | Low Static Pressure Duct | Mini Duct<br>(With drain pump) |  004 - 014  018  024 | ARXK 004 GLGH | ARXK 007 GLGH | ARXK 009 GLGH | ARXK 012 GLGH | | ARXK 014 GLGH | ARXK 018 GLGH | ARXK 024 GLGH | | | | | | | | | |
| | | Slim Duct<br>(With drain pump) |  04/007 - 014  018  024 | ARXD 04 GALH*2 | ARXD 007 GLEH | ARXD 009 GLEH | ARXD 012 GLEH | | ARXD 014 GLEH | ARXD 018 GLEH | ARXD 024 GLEH | | | | | | | | | |
| | | High Efficiency*3 |  | | | | | | | ARXP 018 GLFH | | ARXP 030 GLFH | | | | | | | | |
| | Medium static pressure duct | Normal |  | | | | | | | | ARXA 024 GLEH | ARXA 030 GLEH | | ARXA 036 GLEH | ARXA 045 GLEH | | | | | |
| | High Static Pressure Duct | Normal |  036/45 - 60  072 - 090  096 | | | | | | | | | | | ARXC 036 GTEH | ARXC 045 GTEH | | ARXC 060 GTEH*1 | ARXC 072 GTEH*1 | ARXC 090 GTEH*1 | ARXC 096 GTEH*1 |
| Floor | | Floor<br>(*Same as Ceiling models) |  | | | | ABYA 012 GTEH | | ABYA 014 GTEH | ABYA 018 GTEH | ABYA 024 GTEH | | | | | | | | | |
| | | Slim Concealed Floor<br>(*Same as Slim Duct models) |  04/007 - 014  018  024 | ARXD 04 GALH*2 | ARXD 007 GLEH | ARXD 009 GLEH | ARXD 012 GLEH | | ARXD 014 GLEH | ARXD 018 GLEH | ARXD 024 GLEH | | | | | | | | | |
| | | Compact Floor |  | AGYA 004 GCGH | AGYA 007 GCGH | AGYA 009 GCGH | AGYA 012 GCGH | AGYA 014 GCGH | | | | | | | | | | | | |
| | | Compact Floor<br>(EEV external) |  | AGYE 004 GCEH | AGYE 007 GCEH | AGYE 009 GCEH | AGYE 012 GCEH | AGYE 014 GCEH | | | | | | | | | | | | |
| | | | | This model requires the EV kit to be connected. | | | | | | | | | | | | | | | | |
| Ceiling | | |  012 - 024  030 - 054 | | | | ABYA 012 GTEH | | ABYA 014 GTEH | ABYA 018 GTEH | ABYA 024 GTEH | ABYA 030 GTEH | | ABYA 036 GTEH | ABYA 045 GTEH | ABYA 054 GTEH | | | | |
| Wall-mounted type | | Wall-mounted type |  004 - 014  18 - 24  030 - 034 | ASYA 004 GCGH | ASYA 007 GCGH | ASYA 009 GCGH | ASYA 012 GCGH | ASYA 014 GCGH | | ASYA 018 GBCH | ASYA 024 GBCH | ASYA 030 GTEH | ASYA 034 GTEH | | | | | | | |
| | | Wall-mounted type<br>(EEV external) |  004 - 014 | ASYE 004 GCEH | ASYE 007 GCEH | ASYE 009 GCEH | ASYE 012 GCEH | ASYE 014 GCEH | | | | | | | | | | | | |
| | | | | This model requires the EV kit to be connected. | | | | | | | | | | | | | | | | |

*1: ARXC060/072/090/096G cannot be connected to J-IVS/J-IV Series.
*2: ARXD04GALH cannot be connected to J-IVS/J-IV/J-IVL/VR-IV Series.
*3: Production by order
Specifications and design are subject to change without notice.

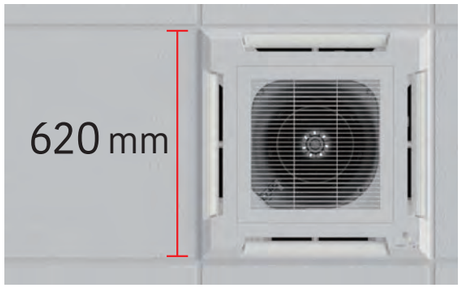
# Compact Cassette

Grid type

DC FAN

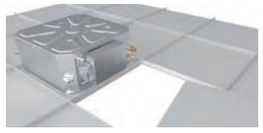
## Compact and stylish panel

The compact and stylish panel fits nicely into a grid type ceiling. The linear design is a perfect fit into a grid of 620 mm × 620 mm in the ceiling.




## Easy maintenance

You can access the unit for maintenance just by removing a ceiling panel right next to the grille. As no inspection hole needs to be cut through the ceiling, no additional construction cost is incurred.



The air inlet grille can be installed to open in any direction for easy maintenance.

## Flexible installation

The unit fits nicely into the decor of a grid type ceiling and can be installed near a lighting or a ventilation opening.

## High ceiling mode

The cassette can be installed up to a height of 3.0 m. (012/014/018/024).

| Model code | Maximum height from floor to ceiling (m) | |
|---|---|---|
| | **Standard mode** | **High ceiling mode** |
| 004 | 2.7 | – |
| 007 | 2.7 | – |
| 009 | 2.7 | – |
| 012 | 2.7 | 3.0 |
| 014 | 2.7 | 3.0 |
| 018 | 2.7 | 3.0 |
| 024 | 2.7 | 3.0 |



**Model: AUXB004GLEH / AUXB007GLEH / AUXB009GLEH**
**AUXB012GLEH / AUXB014GLEH / AUXB018GLEH**
**AUXB024GLEH**

## Specifications

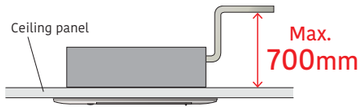
| Model name | | | AUXB004GLEH | AUXB007GLEH | AUXB009GLEH | AUXB012GLEH | AUXB014GLEH | AUXB018GLEH | AUXB024GLEH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.1 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 23 | 25 | 25 | 29 | 35 | 36 | 84 |
| Airflow rate | High | $m^3/h$ | 530/530 | 540 | 550 | 600 | 680 | 710 | 1,030 |
| | Med-High | | 490/480 | 500 | 520 | 560 | 620 | 660 | 910 |
| | Med | | 450/430 | 460 | 480 | 520 | 560 | 590 | 790 |
| | Med-Low | | 420/380 | 420 | 440 | 480 | 500 | 520 | 680 |
| | Low | | 390/340 | 390 | 400 | 430 | 440 | 460 | 560 |
| | Quiet | | 350/300 | 350 | 350 | 390 | 390 | 400 | 450 |
| Sound pressure level | High | dB(A) | 34/34 | 34 | 35 | 37 | 38 | 41 | 50 |
| | Med-High | | 32/31 | 32 | 33 | 34 | 37 | 39 | 46 |
| | Med | | 30/29 | 30 | 31 | 33 | 34 | 36 | 43 |
| | Med-Low | | 28/26 | 28 | 29 | 31 | 32 | 33 | 39 |
| | Low | | 27/24 | 27 | 27 | 29 | 30 | 30 | 35 |
| | Quiet | | 25/21 | 25 | 25 | 27 | 27 | 27 | 30 |
| Net Dimensions (H × W × D) | | mm | 245 × 570 × 570 | 245 × 570 × 570 | 245 × 570 × 570 | 245 × 570 × 570 | 245 × 570 × 570 | 245 × 570 × 570 | 245 × 570 × 570 |
| Weight | | kg | 14.5 | 15 | 15 | 15 | 15 | 17 | 17 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 9.52 |
| | Gas (Flare) | | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | | | | |
| Cassette Grille | Model name | | UTG-UFYE-W/UTG-UFYC-W | | | | | | |
| | Net Dimensions (H × W × D) | mm | 49 × 620 × 620/50 × 700 × 700 | | | | | | |
| | Weight | kg | 2.3/2.6 | | | | | | |

Note: Specifications are subject to 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. Voltage: 230 [V]
*1: This value is under cooling operation.

## Optional parts

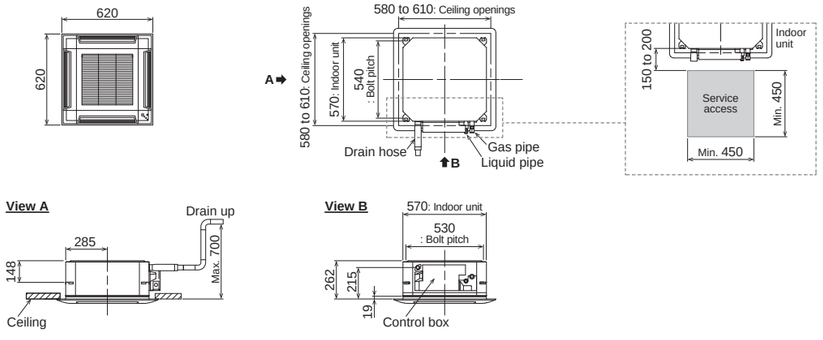
*For more details, please refer to the chapter “Optional parts”.

| | | | |
|---|---|---|---|
| Air Outlet Shutter Plate: | UTR-YDZB | Cassette Grille: | UTG-UFYC-W, UTG-UFYE-W |
| Flesh Air Intake Kit: | UTZ-VXAA | External power supply unit: | UTZ-GXXA, UTZ-GXXC* |
| Insulation kit for high humidity: | UTZ-KXGC | WLAN adapter: | UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1 |
| Silver Ion Filter: | UTD-HFAA | | |
| Remote sensor kit: | UTY-XSZXZ1 | | |




## Dimensions

(Unit: mm)



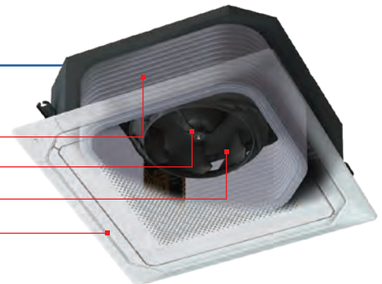
# Cassette Slim type

Circular Flow

DC FAN

## Unique circular flow design

This Cassette type air conditioner is equipped with a high performance DC fan motor, a turbo fan, and a louver to propel powerful airflows in all directions.




## Uniform temperature air conditioning

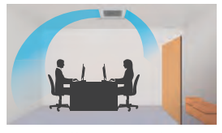
Achieve a comfortable air conditioning spread to every corner of the room thanks to the circular flow and wide vertical airflow.


## Individual louver control

Each louver can be set individually by the Touch panel wired remote controller so the user can enjoy the comfort of different directional airflows according to the room layout.

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ3 Central remote controller only

Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

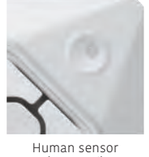


Provides efficient air conditioning based on the room layout

## The Human sensor contributes to further energy savings.

Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ3 Central remote controller only



Human sensor (Optional)

2 modes are available to choose from:

| | |
|---|---|
| Auto economy mode | The air conditioner switches to operate on reduced power when it detects that the room is unoccupied. |
| Auto-off mode | The air conditioner stops operating when it detects that the room is unoccupied. |



**Model: AUXM018GLEH / AUXM024GLEH / AUXM030GLEH**

## Specifications

| Model name | | | AUXM018GLEH | AUXM024GLEH | AUXM030GLEH |
|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | |
| Capacity | Cooling | kW | 5.6 | 7.1 | 9.0 |
| | Heating | | 6.3 | 8.0 | 10.0 |
| Input power | | W | 20 | 25 | 49 |
| Airflow rate | High | $m^3/h$ | 1,050 | 1,120 | 1,470 |
| | Med-High | | 930 | 1,050 | 1,160 |
| | Med | | 900 | 930 | 1,070 |
| | Med-Low | | 870 | 900 | 930 |
| | Low | | 810 | 870 | 900 |
| | Quiet | | 780 | 780 | 780 |
| Sound pressure level | High | dB(A) | 33 | 35 | 40 |
| | Med-High | | 32 | 33 | 36 |
| | Med | | 31 | 32 | 34 |
| | Med-Low | | 30 | 31 | 32 |
| | Low | | 29 | 30 | 31 |
| | Quiet | | 28 | 28 | 28 |
| Dimensions (H × W × D) | | mm | 246 × 840 × 840 | | |
| Weight | | kg | 24.0 | 24.5 | 24.5 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 9.52 | 9.52 |
| | Gas (Flare) | | 12.70 | 15.88 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | |
| Cassette Grille | Model name | | UTG-UKYC-W/UTG-UKYA-B | | |
| | Dimensions (H × W × D) | mm | 53 × 950 × 950 | | |
| | Weight | kg | 6.0 | | |

Note: Specifications are subject to 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. Voltage: 230 [V].
When AUX*018GLEH is connected to an outdoor unit other than one of the J-IVL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).
When connecting AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø19.05 mm.

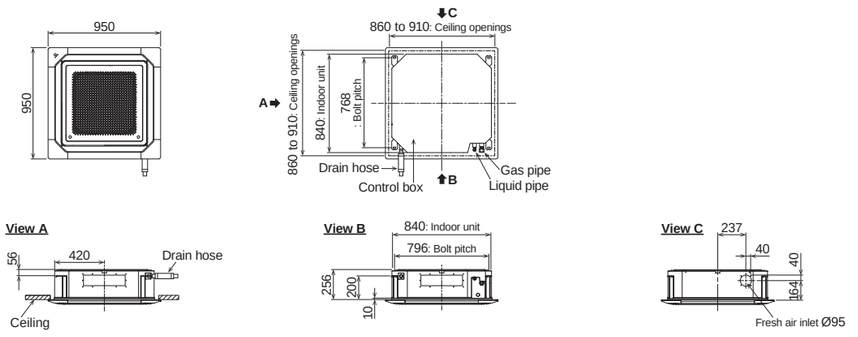
## Optional parts

*For more details, please refer to the chapter “Optional parts”.

| | | | | | |
|---|---|---|---|---|---|
| Human sensor Kit: | UTY-SHZXC | Air Outlet Shutter Plate: | UTR-YDZK | IR Receiver Unit: | UTY-LBHXD |
| Wide Panel: | UTG-AKXA-W | Insulation kit for high humidity: | UTZ-KXRA | WLAN adapter: | UTY-TFSXZ1, UTY-TFSXJ3,FG-AC-WIF1Z1 |
| Panel Spacer: | UTG-BKXA-W | Cassette Grille: | UTG-UKYC-W, UTG-UKYA-B | Silver Ion Filter: | UTD-HFRA |
| Fresh air intake kit: | UTZ-VXRA | External power supply unit: | UTZ-GXXA, UTZ-GXXC* | Remote sensor kit: | UTY-XSZXZ1 |

## Dimensions

(Unit: mm)

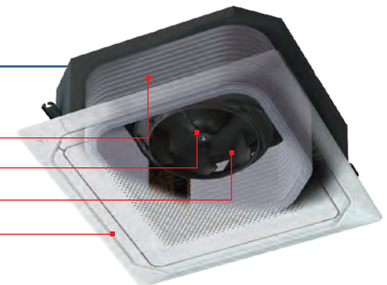


# Cassette
# Large type
## Circular Flow

DC FAN

## Unique circular flow design

This Cassette type air conditioner is equipped with a high performance DC fan motor, a turbo fan, and a louver to propel powerful airflows in all directions.




## Uniform temperature air conditioning

Achieve a comfortable air conditioning spread to every corner of the room thanks to the circular flow and wide vertical airflow.


## Individual louver control

Each louver can be set individually by the Touch panel wired remote controller so the user can enjoy the comfort of different directional airflows according to the room layout.

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ3 Central remote controller only

Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

Provides efficient air conditioning based on the room layout

## The Human sensor contributes to further energy savings.

Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ3 Central remote controller only

Human sensor (Optional)

2 modes are available to choose from:

| | |
|---|---|
| Auto economy mode | The air conditioner switches to operate on reduced power when it detects that the room is unoccupied. |
| Auto-off mode | The air conditioner stops operating when it detects that the room is unoccupied. |



**Model: AUXK018GLEH / AUXK024GLEH / AUXK030GLEH**
**AUXK034GLEH / AUXK036GLEH / AUXK045GLEH**
**AUXK054GLEH**

## Specifications

| Model name | | | AUXK018GLEH | AUXK024GLEH | AUXK030GLEH | AUXK034GLEH | AUXK036GLEH | AUXK045GLEH | AUXK054GLEH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | | | | |
| Capacity | Cooling | kW | 5.6 | 7.1 | 9.0 | 10.0 | 11.2 | 12.5 | 14.0 |
| | Heating | | 6.3 | 8.0 | 10.0 | 11.2 | 12.5 | 14.0 | 16.0 |
| Input power | | W | 40 | 40 | 47 | 47 | 61 | 89 | 116 |
| Airflow rate | High | $m^3/h$ | 1,420 | 1,420 | 1,440 | 1,440 | 1,620 | 1,820 | 2,040 |
| | Med-High | | 1,360 | 1,360 | 1,400 | 1,400 | 1,500 | 1,590 | 1,800 |
| | Med | | 1,300 | 1,300 | 1,340 | 1,340 | 1,400 | 1,500 | 1,590 |
| | Med-Low | | 1,270 | 1,270 | 1,300 | 1,300 | 1,340 | 1,400 | 1,440 |
| | Low | | 1,200 | 1,200 | 1,280 | 1,280 | 1,280 | 1,300 | 1,300 |
| | Quiet | | 1,150 | 1,150 | 1,150 | 1,150 | 1,150 | 1,150 | 1,150 |
| Sound pressure level | High | dB(A) | 38 | 38 | 39 | 39 | 41 | 44 | 47 |
| | Med-High | | 37 | 37 | 38 | 38 | 40 | 42 | 45 |
| | Med | | 36 | 36 | 37 | 37 | 38 | 40 | 42 |
| | Med-Low | | 35 | 35 | 36 | 36 | 37 | 38 | 39 |
| | Low | | 34 | 34 | 35 | 35 | 36 | 36 | 36 |
| | Quiet | | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| Dimensions (H × W × D) | | mm | 288 × 840 × 840 | | | | | | |
| Weight | | kg | 26.5 | 26.5 | 29.5 | 29.5 | 29.5 | 29.5 | 29.5 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas (Flare) | | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | | | | |
| Cassette Grille | Model name | | UTG-UKYC-W/UTG-UKYA-B | | | | | | |
| | Dimensions (H × W × D) | mm | 53 × 950 × 950 | | | | | | |
| | Weight | kg | 6.0 | | | | | | |

Note: Specifications are subject to 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. Voltage: 230 [V].
When AUX*018GLEH is connected to an outdoor unit other than one of the J-IVL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).
When connecting AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø19.05 mm.

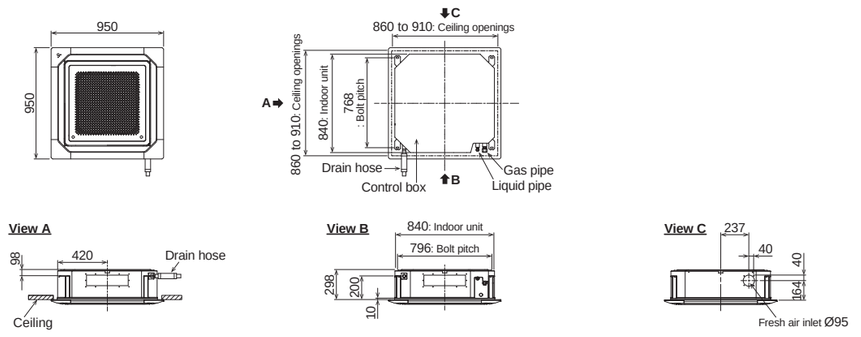
## Optional parts

*For more details, please refer to the chapter “Optional parts”.

| | | | | | |
|---|---|---|---|---|---|
| Human sensor Kit: | UTY-SHZXC | Air Outlet Shutter Plate: | UTR-YDZK | IR Receiver Unit: | UTY-LBHXD |
| Wide Panel: | UTG-AKXA-W | Insulation kit for high humidity: | UTZ-KXRA | WLAN adapter: | UTY-TFSXZ1, UTY-TFSXJ3,FG-AC-WIF1Z1 |
| Panel Spacer: | UTG-BKXA-W | Cassette Grille: | UTG-UKYC-W, UTG-UKYA-B | Silver Ion Filter: | UTD-HFRA |
| Fresh air intake kit: | UTZ-VXRA | External power supply unit: | UTZ-GXXA, UTZ-GXXC* | Remote sensor kit: | UTY-XSZXZ1 |

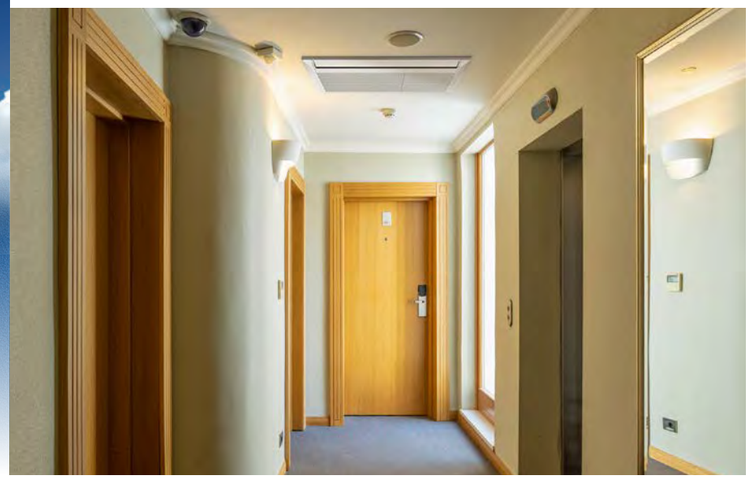
## Dimensions

(Unit: mm)



# Cassette

## One-way Flow type



DC FAN

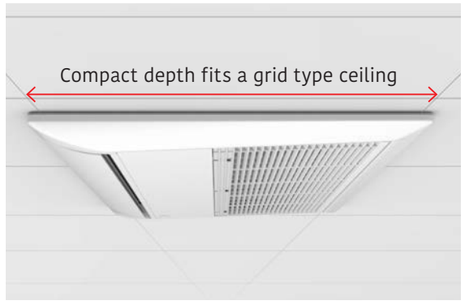
## Compact chassis size

The compact size allows easy installation in a variety of commercial facilities and environments.

- The height of the chassis is less than 200 mm for all models.
- All 4 to 12 kBtu models are less than 1,000 mm wide.
- The depth of the chassis is 570 mm, which fits nicely into a grid type ceiling.

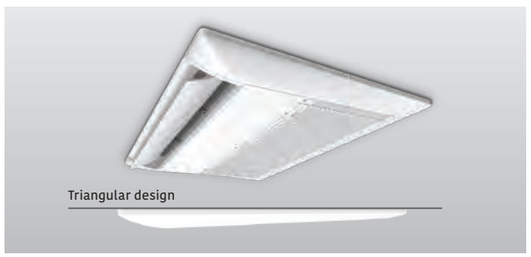
Dimensions (Panel size) (Unit: mm)

| | 4 | 7 | 9 | 12 | 14 | 18 | 24 |
|---|---|---|---|---|---|---|---|
| H | 198 (43) | | | | 198 (43) | | |
| W | 785 (950) | | | | 1,190 (1,360) | | |
| D | 570 (620) | | | | 570 (620) | | |




## Wide airflow range

A large flap with a wide range of movements, equipped with louvers arranged triangularly, sends air into every corner of the room.




In cooling mode, the left/right airflow reaches every corner of the room without directly touching the human body to provide comfortable air conditioning.

In heating mode, warm air is directed downward toward the floor to warm the feet and lower body, while the head is kept relatively cool.

Note: This is a conceptual drawing. The performance of an air conditioner may vary depending on where it is installed, the size of the room, and its distance from the wall.

## Quiet mode

The low operating noise makes the model ideal for use in hotel rooms.



**Model: AUXV004GLEH / AUXV007GLEH / AUXV009GLEH**
**AUXV012GLEH / AUXV014GLEH / AUXV018GLEH**
**AUXV024GLEH**

AUXV004/007/009/012GLEH

AUXV014/018/024GLEH

### Specifications

| Model name | | | AUXV004GLEH | AUXV007GLEH | AUXV009GLEH | AUXV012GLEH | AUXV014GLEH | AUXV018GLEH | AUXV024GLEH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 30/30 | 42/42 | 42/42 | 60/60 | 38/38 | 56/56 | 99/99 |
| Airflow rate* | High | $m^3/h$ | 460 | 550 | 550 | 670 | 720 | 890 | 1,150 |
| | Med-High | | 440 | 440 | 440 | 520 | 660 | 840 | 1,020 |
| | Med | | 420 | 420 | 420 | 480 | 630 | 770 | 940 |
| | Med-Low | | 400 | 400 | 400 | 450 | 600 | 710 | 790 |
| | Low | | 380 | 380 | 380 | 410 | 580 | 660 | 700 |
| | Quiet | | 360 | 360 | 360 | 360 | 550 | 580 | 610 |
| Sound pressure level* | High | dB(A) | 38 | 42 | 42 | 45 | 37 | 44 | 49 |
| | Med-High | | 37 | 37 | 37 | 41 | 36 | 43 | 47 |
| | Med | | 36 | 36 | 36 | 39 | 35 | 40 | 45 |
| | Med-Low | | 35 | 35 | 35 | 38 | 34 | 38 | 42 |
| | Low | | 33 | 33 | 33 | 36 | 33 | 36 | 39 |
| | Quiet | | 32 | 32 | 32 | 32 | 32 | 34 | 36 |
| Net Dimensions (H × W × D) | | mm | 198 × 785 × 570 | 198 × 785 × 570 | 198 × 785 × 570 | 198 × 785 × 570 | 198 × 1,190 × 570 | 198 × 1,190 × 570 | 198 × 1,190 × 570 |
| Weight | | kg | 18 | 19 | 19 | 19 | 26 | 26 | 27 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 9.52 |
| | Gas (Flare) | | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | | | | |
| Cassette Grille | Model name | | UTG-UNYA-W | | | | UTG-UNYB-W | | |
| | Net Dimensions (H × W × D) | mm | 43 × 950 × 620 | | | | 43 × 1,360 × 620 | | |
| | Weight | kg | 6.5 | | | | 8.5 | | |

Note: Specifications are subject to 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. Voltage: 230 [V]

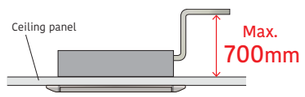
### Optional parts

*For more details, please refer to the chapter "Optional parts".

WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
IR Receiver Unit: UTY-TRHX
Cassette Grille: UTG-UNYA-W (004-012), UTG-UNYB-W (014-024)
External power supply unit: UTZ-GXXA, UTZ-GXXC*
Remote sensor kit: UTY-XSZXZ1

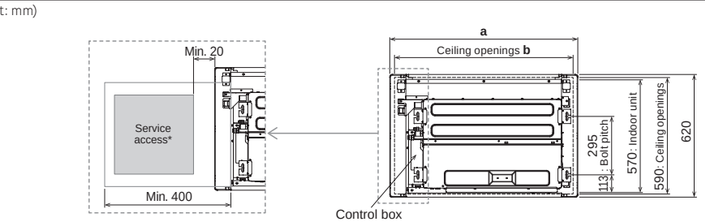
### Flexible Installation

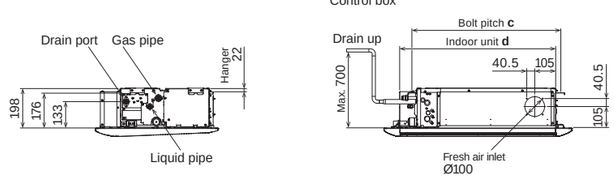
The L-shaped pipe kit allows for more flexible installation.
Equipped with a built-in drain pump as standard, which enables a maximum pipe height difference of 700 m from the ceiling.




### Dimensions

(Unit: mm)




| | AUXV 004 / 007 / 009 / 012 GLEH | AUXV 014 / 018 / 024 GLEH |
|---|---|---|
| a | 950 | 1,360 |
| b | 920 | 1,330 |
| c | 752 | 1,152 |
| d | 785 | 1,190 |

*The design of the service access depends on the installation method. Refer to the installation manual for more information.

# 3D Flow Cassette

DC FAN

## 3 individually controlled air outlet ports

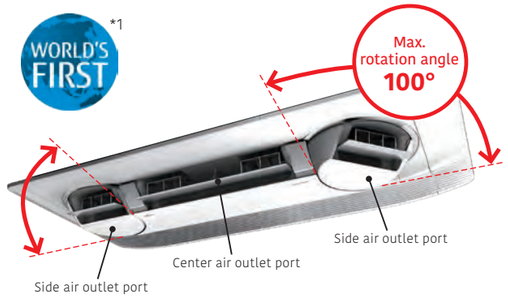
The Comfortable airflow setting enables the left and right air outlet ports as well as the wide center port to work together to provide a comfortable room environment.

### Temperature distribution during cooling and heating (when set to Comfortable airflow)

**Testing conditions:** Model AUXS024GLEH running cooling operation with the air volume set to "Hi" to maintain the room temperature at 18°C with the outdoor temperature at 35°C, tested in our 40m² environmental test room

**Testing conditions:** Model AUXS024GLEH running heating operation with the air volume set to "Hi" to maintain the room temperature at 30°C with the outdoor temperature at 7°C, tested in our 40m² environmental test room

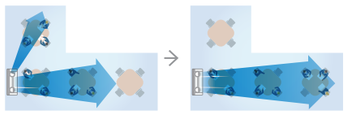
WORLD'S FIRST *1




*1: Announced 2018. In the category of room air conditioners for the home (source: Fujitsu General Limited).

## Individual airflow setting

The individual airflow setting function optimizes the airflow direction to match the room layout.



Adjusts airflows from the side air outlet ports to match the layout and usage of the room to minimize the amount of wasted airflow.

The airflow is optimally controlled to provide improved comfort in a narrow room.

### Individual control of air outlet ports

Individual airflow can be set using a Wired remote controller with touch panel, Design type and Central remote controller*. The airflow from each air outlet port can be set individually.

Wired remote controller (Design type)
UTY-RVRY

Wired remote controller with Touch Panel
UTY-RNRYZ5

Central remote controller
UTY-DCGYZ3

* Feature available only on UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ3 Central remote controller

## High energy saving

The structural design to take in a larger volume of air and blow air out more smoothly reduces air blowing loss and achieves class-leading energy-saving performance.


*: 018 model



**Model: AUXS018GLEH / AUXS024GLEH**

## Specifications

| Model name | | | AUXS018GLEH | AUXS024GLEH |
|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | |
| Capacity | Cooling | kW | 5.60 | 7.10 |
| | Heating | | 6.30 | 8.00 |
| Input power | | W | 20/28 | 34/43 |
| Airflow rate* | High | $m^3/h$ | 750/870 | 950/1,040 |
| | Med-High | | 710/830 | 890/990 |
| | Med | | 690/780 | 860/930 |
| | Med-Low | | 660/740 | 810/880 |
| | Low | | 630/700 | 770/840 |
| | Quiet | | 540/540 | 540/540 |
| Sound pressure level* | High | dB(A) | 38/41 | 43/46 |
| | Med-High | | 36/40 | 42/45 |
| | Med | | 35/39 | 41/43 |
| | Med-Low | | 35/37 | 40/42 |
| | Low | | 33/36 | 38/40 |
| | Quiet | | 29/29 | 29/29 |
| Net Dimensions (H × W × D) | | mm | 200 × 1,240 × 500 | 200 × 1,240 × 500 |
| Weight | | kg | 25 | 25 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 9.52 |
| | Gas (Flare) | | 12.70 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | |
| Cassette Grille | Model name | | UTG-USYA-W | |
| | Net Dimensions (H × W × D) | mm | 85 × 1,350 × 580 | |
| | Weight | kg | 11.5 | |

Note: Specifications are subject to 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. Voltage: 230 [V]
*: Applicable to cooling and heating operation

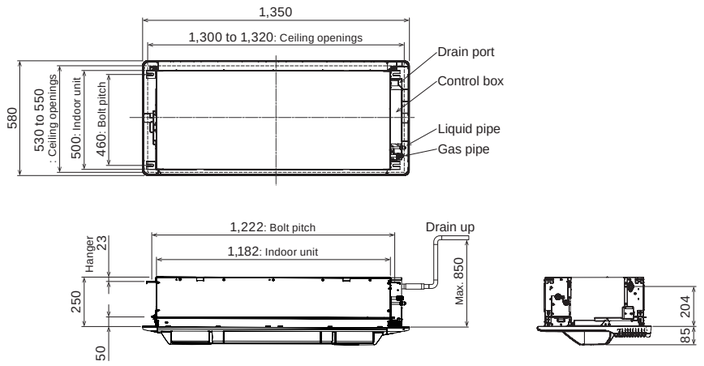
## Optional parts

*For more details, please refer to the chapter "Optional parts".

**WLAN adapter:** UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
**IR Receiver Unit:** UTY-TRHX
**Cassette Grille:** UTG-USYA-W
**Remote sensor kit:** UTY-XSZXZ1
**External power supply unit:** UTZ-GXXA, UTZ-GXXC*

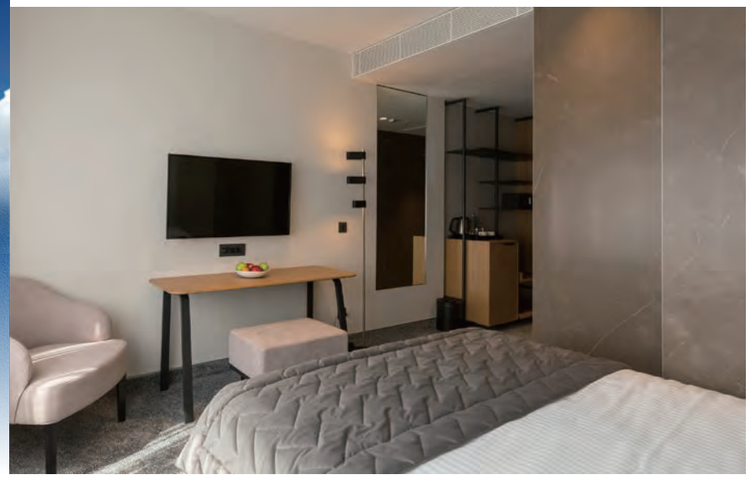
## Dimensions

(Unit: mm)



# Low Static Pressure Duct Mini Duct

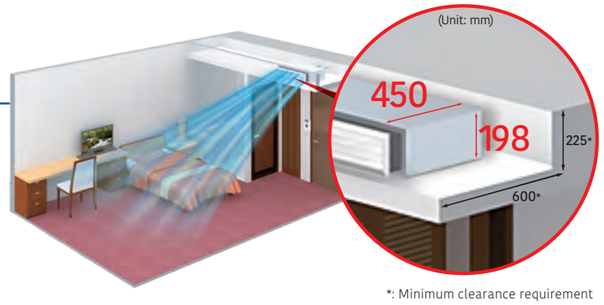
(With drain pump)



DC FAN

## Space saving design

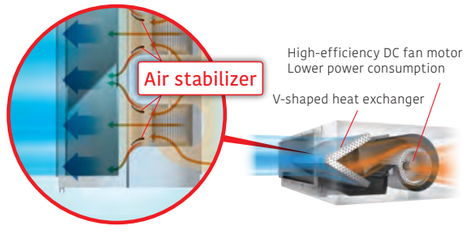
- Fits into a space 198 mm high and 450 mm deep
- 30% smaller than previous-generation models
- Weighs 16 kg, 10% lighter




*: Minimum clearance requirement

## Optimum airflow path and low noise operation

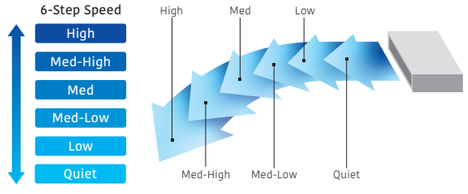
The stabilized airflow reduces the noise level significantly.




## 6-speed control*

Multistep airflow adjustment allows installation in a quiet location.

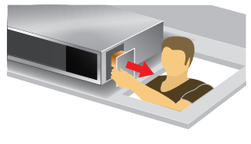
Low noise
20 dB(A)
at 04 model




* Remote controller is compatible with the following:
UTY-RVRY / UTY-LNVY / UTY-RNRYZ5 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ2 / UTY-ALGXZ1 / UTY-APGXZ1

## Easy to design and maintain for drain

Indoor unit design for easy maintenance Parts can be replaced from the side of the unit where maintenance is easier.

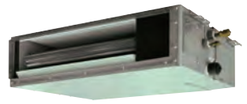


**A drain pump is built into the unit as standard:**

Parts can be accessed and replaced through the side of the unit for easy maintenance.

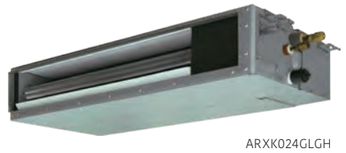


**Model: ARXK004GLGH / ARXK007GLGH / ARXK009GLGH**
**ARXK012GLGH / ARXK014GLGH / ARXK018GLGH**
**ARXK024GLGH**



ARXK004/007/009/012/014GLGH

ARXK018GLGH



ARXK024GLGH

## Specifications

| Model name | | | ARXK004GLGH | ARXK007GLGH | ARXK009GLGH | ARXK012GLGH | ARXK014GLGH | ARXK018GLGH | ARXK024GLGH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 26 | 28 | 28 | 35 | 66 | 73 | 80 |
| Airflow rate | High | $m^3/h$ | 460 | 460 | 460 | 550 | 760 | 930 | 1,160 |
| | Med-High | | 440 | 440 | 440 | 520 | 660 | 840 | 1,060 |
| | Med | | 420 | 420 | 420 | 480 | 560 | 740 | 960 |
| | Med-Low | | 400 | 400 | 400 | 450 | 490 | 640 | 860 |
| | Low | | 370 | 370 | 370 | 410 | 410 | 540 | 750 |
| | Quiet | | 340 | 340 | 340 | 340 | 340 | 470 | 610 |
| Static pressure range | | Pa | 0 to 30 | 0 to 30 | 0 to 30 | 0 to 30 | 0 to 50 | 0 to 50 | 0 to 50 |
| Standard static pressure | | | 10 | 10 | 10 | 10 | 15 | 15 | 15 |
| Sound pressure level | High | dB(A) | 25 | 26 | 26 | 29 | 34 | 33 | 32 |
| | Med-High | | 24 | 25 | 25 | 27 | 31 | 30 | 30 |
| | Med | | 23 | 24 | 24 | 26 | 28 | 28 | 28 |
| | Med-Low | | 22 | 23 | 23 | 25 | 26 | 26 | 27 |
| | Low | | 21 | 22 | 22 | 24 | 24 | 24 | 25 |
| | Quiet | | 20 | 21 | 21 | 22 | 22 | 22 | 22 |
| Net Dimensions (H × W × D) | | mm | 198 × 700 × 450 | 198 × 700 × 450 | 198 × 700 × 450 | 198 × 700 × 450 | 198 × 700 × 450 | 198 × 900 × 450 | 198 × 1,100 × 450 |
| Weight | | kg | 14.5 | 15.5 | 15.5 | 16 | 16 | 19 | 22.5 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 9.52 |
| | Gas (Flare) | | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | | | | |

Note: Specifications are subject to 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. Voltage: 230 [V].

## Optional parts

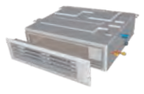
*For more details, please refer to the chapter "Optional parts".

Remote sensor unit: UTY-XSZXZ1
IR receiver unit: UTY-TRHX
Silver Ion Filter: UTD-HFTA (004-014)
UTD-HFTB (018)
UTD-HFTC (024)

External power supply unit: UTZ-GXXA, UTZ-GXXC*
Auto Louver Grille Kit: UTD-GXTA-W (004-014)
UTD-GXTB-W (018)
UTD-GXTC-W (024)
WLAN adapter: FG-AC-WIF1Z1
UTY-TFSXJ3, UTY-TFSXZ1 (007-024)

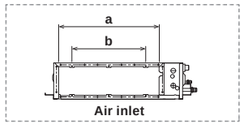
## Auto Louver Grille Kit (Optional)

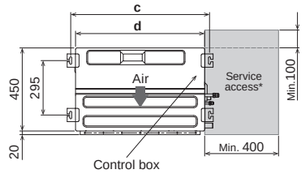
The slim design of the unit provides comfortable cooling and heating air conditioning over a wide area.
The optional automatic louver grille, which fits nicely into any interior decor, provides comfortable air conditioning (Optional)



## Dimensions

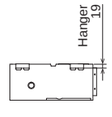
(Unit: mm)

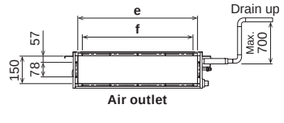


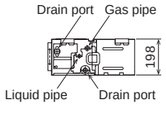




| | ARXK 004-014GLGH | ARXK018GLGH | ARXK024GLGH |
|---|---|---|---|
| a | 575 | 775 | 975 |
| b | P200×2=400 | P200×3=600 | P200×4=800 |
| c | 752 | 952 | 1,152 |
| d | 700 | 900 | 1,100 |
| e | 650 | 850 | 1,050 |
| f | P100×6=600 | P100×8=800 | P100×10=1,000 |

*The design of the service access depends on the installation method. Refer to the installation manual for more information.



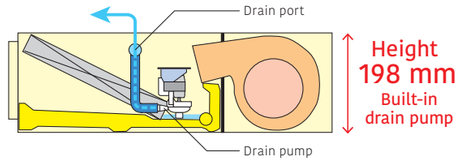



# Low Static Pressure Duct
# Slim Duct/ Slim Concealed Floor

DC FAN

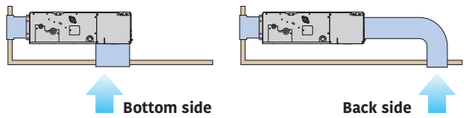
## Slim design

Slim design allows for installation in a tight ceiling space.



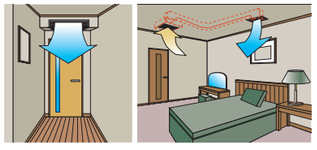

## Air intake

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




## Flexible installation

Ceiling concealed



Floor concealed

## Wide range of static pressures

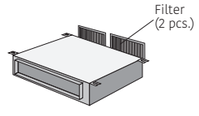
The use of a DC fan motor makes it possible to adjust the static pressure between 0 and 90 Pa.
The static pressure range can be changed by a remote controller.

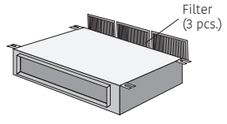
Static pressure range
0 to 90 Pa

*024 model static pressure range is 0 to 50 Pa.

## Filter (Accessory)

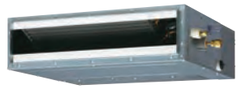
ARXD04/007/009/012/014/018 ARXD024



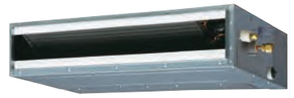






**Model: ARXD04GALH / ARXD007GLEH / ARXD009GLEH**
**ARXD012GLEH / ARXD014GLEH / ARXD018GLEH**
**ARXD024GLEH**



ARXD04GALH
ARXD007/009/012/014GLEH



ARXD018GLEH

ARXD024GLEH

Slim Concealed Floor

## Specifications

| Model name | | | ARXD04GALH* | ARXD007GLEH | ARXD009GLEH | ARXD012GLEH | ARXD014GLEH | ARXD018GLEH | ARXD024GLEH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 40 | 44 | 50 | 54 | 92 | 83 | 122 |
| Airflow rate | High | $m^3/h$ | 510 | 550 | 600 | 600 | 800 | 940 | 1,330 |
| | Med-High | | - | 480 | 510 | 530 | 680 | 820 | 1,140 |
| | Med | | 400/470*1 | 440 | 460 | 490 | 600 | 730 | 1,020 |
| | Med-Low | | - | 410 | 420 | 450 | 520 | 630 | 900 |
| | Low | | 320/440*1 | 370 | 370 | 410 | 440 | 540 | 780 |
| | Quiet | | - | 320 | 320 | 340 | 340 | 470 | 610 |
| Static pressure range | | Pa | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 50 |
| Standard static pressure | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Sound pressure level | High | dB(A) | 26 | 28 | 29 | 30 | 34 | 34 | 35 |
| | Med-High | | - | 26 | 27 | 28 | 32 | 31 | 31 |
| | Med | | 21/25*1 | 25 | 25 | 27 | 30 | 29 | 29 |
| | Med-Low | | - | 24 | 24 | 26 | 28 | 27 | 27 |
| | Low | | 20/22*1 | 22 | 22 | 24 | 25 | 25 | 24 |
| | Quiet | | - | 21 | 21 | 22 | 22 | 23 | 21 |
| Net Dimensions (H × W × D) | | mm | 198 × 700 × 620 | 198 × 700 × 620 | 198 × 700 × 620 | 198 × 700 × 620 | 198 × 700 × 620 | 198 × 900 × 620 | 198 × 1,100 × 620 |
| Weight | | kg | 17 | 17 | 17 | 18 | 18 | 22 | 26 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 9.52 |
| | Gas (Flare) | | 12.70 | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | | | | |

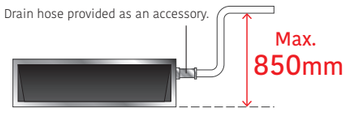
Note: Specifications are subject to the following conditions:
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].
*1: This value is under cooling operation.
*: ARXD04GALH cannot be connected to J-IVS/J-IV/J-IVL/VR-IV Series.

## Optional parts

*For more details, please refer to the chapter “Optional parts”.

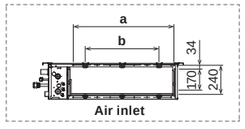
Remote sensor unit: UTY-XSZXZ1
IR receiver unit: UTB-YWC (04)
UTY-TRHX (007-024)
WLAN adapter: UTY-TFSXJ3 (007-024)
UTY-TFSXZ1 (007-024)
FG-RC-WIF1Z2 (04)
FG-AC-WIF1Z1 (007-024)
External power supply unit: UTZ-GXXA, UTZ-GXXC*
Auto Louver Grille Kit: UTD-GXTA-W (04, 007-014)
UTD-GXTB-W (018)
UTD-GXTC-W (024)
Silver Ion Filter: UTD-HFTA (04, 007-014)
UTD-HFTB (018)
UTD-HFTC (024)

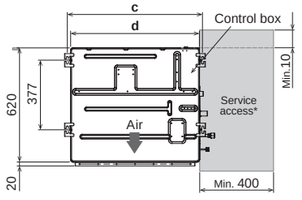
Drain hose provided as an accessory.

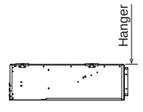


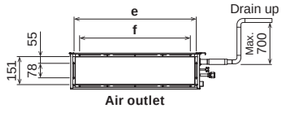

## Dimensions

(Unit: mm)



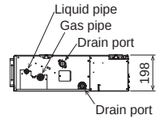




| | ARXD04GALH ARXD 007-014GLEH | ARXD018GLEH | ARXD024GLEH |
|---|---|---|---|
| a | 574 | 774 | 974 |
| b | P200×2=400 | P200×3=600 | P200x4=800 |
| c | 734 | 934 | 1,134 |
| d | 700 | 900 | 1,100 |
| e | 650 | 850 | 1,050 |
| f | P100×6=600 | P100×8=800 | P100×10=1,000 |

*The design of the service access depends on the installation method. Refer to the installation manual for more information.



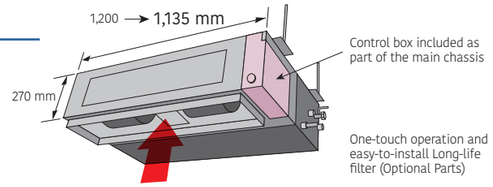
# Low Static Pressure Duct

High Efficiency

DC FAN

## Slim & Compact design

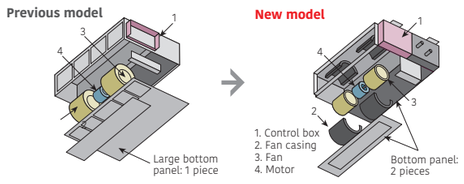
The slim and compact design of the indoor unit, with the control box mounted on the side, allows installation in narrow spaces.




## Easy maintenance

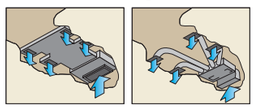
Structural improvement has been developed by making the bottom panel in two pieces, front and rear. The internal fan casing is also manufactured in two pieces—upper and lower. The motor and fan can be easily accessed and maintained by removing the rear panel and the lower casing with the main chassis remaining in place.

See below for rear-suction type

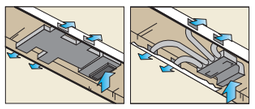



## Installation styles

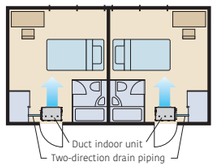
**Embedded in Ceiling**



**Hanging from Ceiling**



## A drain pipe can be installed on either the left or right side of the unit




## High-efficiency DC fan motor achieves low-energy consumption.

Improved motor efficiency from previous model.

024 model



030/036/045 model

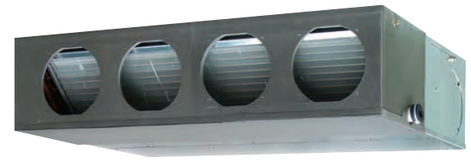
## Wide range of static pressures

Static pressures can be changed in the range of 0 to 80 Pa.

Static pressure range
0 to 80 Pa



**Model: ARXP018GLFH / ARXP030GLFH** *** Production by order**



## Specifications

| Model name | | | ARXP018GLFH | ARXP030GLFH |
|---|---|---|---|---|
| Power source | | | Single-phase, ~220V, 50Hz | |
| Capacity | Cooling | kW | 5.6 | 9.0 |
| | Heating | | 6.3 | 10.0 |
| Input power | | W | 128 | 228 |
| Airflow rate | High | $m^3/h$ | 1,540 / 1,440 | 1,940 / 1,660 |
| | Med-High | | 1,460 / 1,380 | 1,810 / 1,580 |
| | Med | | 1,380 / 1,320 | 1,680 / 1,510 |
| | Med-Low | | 1,300 / 1,260 | 1,550 / 1,440 |
| | Low | | 1,220 / 1,200 | 1,420 / 1,370 |
| | Quiet | | 1,150 / 1,150 | 1,300 / 1,300 |
| Static pressure range | | Pa | 0 to 80 | 0 to 80 |
| Standard static pressure | | | 40 | 50 |
| Sound pressure level | High | dB(A) | 35 / 34 | 39 / 36 |
| | Med-High | | 34 / 32 | 38 / 35 |
| | Med | | 32 / 31 | 36 / 34 |
| | Med-Low | | 31 / 30 | 34 / 33 |
| | Low | | 29 / 29 | 32 / 31 |
| | Quiet | | 28 / 28 | 30 / 30 |
| Net Dimensions (H × W × D) | | mm | 270 × 1,135 × 700 | 270 × 1,135 × 700 |
| Weight | | kg | 40 | 40 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 9.52 |
| | Gas (Flare) | | 12.70 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | |

Note: Specifications are subject to 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. Voltage: 230 [V].

## Optional parts

*For more details, please refer to the chapter “Optional parts”.

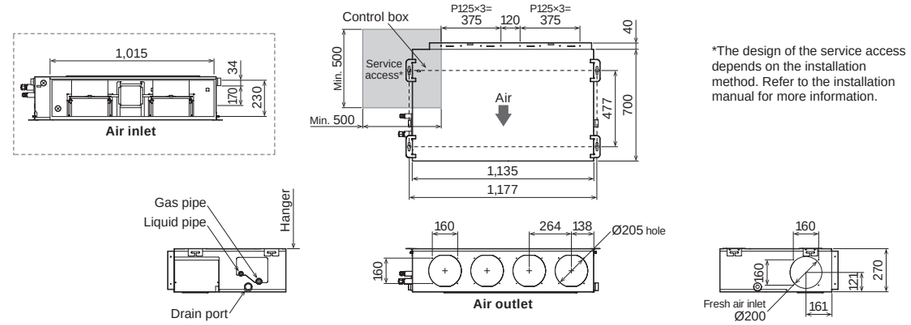
Long-life filter: UTD-LF25NA
Flange (square): UTD-SF045T
Flange (round): UTD-RF204

External power supply unit: UTZ-GXXA, UTZ-GXXC*
Remote sensor unit: UTY-XSZXZ1
IR receiver unit: UTY-TRHX

Drain pump unit: UTZ-PX1NBA
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
Silver Ion Filter: UTD-HFND

## Dimensions

(Unit: mm)




*The design of the service access depends on the installation method. Refer to the installation manual for more information.

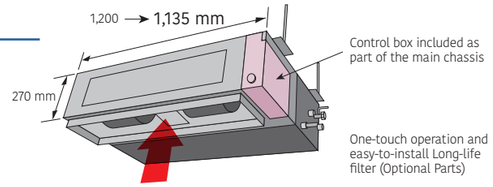
# Medium Static Pressure Duct

Normal

DC FAN

## Slim & Compact design

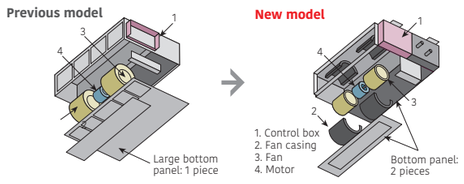
The slim and compact design of the indoor unit, with the control box mounted on the side, allows installation in narrow spaces.




## Easy maintenance

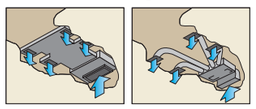
Structural improvement has been developed by making the bottom panel in two pieces, front and rear. The internal fan casing is also manufactured in two pieces—upper and lower. The motor and fan can be easily accessed and maintained by removing the rear panel and the lower casing with the main chassis remaining in place.

See below for rear-suction type

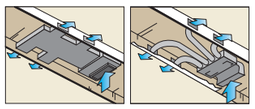



## Installation styles

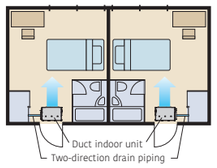
**Embedded in Ceiling**



**Hanging from Ceiling**



## A drain pipe can be installed on either the left or right side of the unit




## High-efficiency DC fan motor achieves low-energy consumption.

Improved motor efficiency from previous model.

024 model

030/036/045 model

## Wide range of static pressures

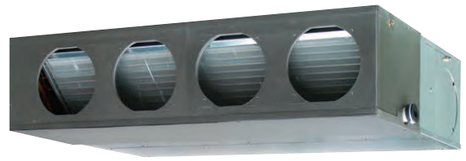
Static pressures can be changed in the range of 0 to 150 Pa.

Static pressure range

0 to 150 Pa



**Model: ARXA024GLEH / ARXA030GLEH / ARXA036GLEH / ARXA045GLEH**



## Specifications

| Model name | | | ARXA024GLEH | ARXA030GLEH | ARXA036GLEH | ARXA045GLEH |
|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | |
| Capacity | Cooling | kW | 7.1 | 9.0 | 11.2 | 12.5 |
| | Heating | | 8.0 | 10.0 | 12.5 | 14.0 |
| Input power | | W | 94 | 108 | 194 | 240 |
| Airflow rate | High | $m^3/h$ | 1,280 | 1,410 | 1,840 | 1,970 |
| | Med-High | | 1,180 | 1,350 | 1,750 | 1,910 |
| | Med | | 1,090 | 1,280 | 1,660 | 1,860 |
| | Med-Low | | 1,000 | 1,240 | 1,600 | 1,780 |
| | Low | | 920 | 1,190 | 1,530 | 1,710 |
| | Quiet | | 840 | 1,150 | 1,470 | 1,640 |
| Static pressure range | | Pa | 0 to 150 | 0 to 150 | 0 to 150 | 0 to 150 |
| Standard static pressure | | | 40 | 50 | 50 | 60 |
| Sound pressure level | High | dB(A) | 31 | 34 | 37 | 41 |
| | Med-High | | 29 | 33 | 36 | 40 |
| | Med | | 27 | 32 | 35 | 38 |
| | Med-Low | | 26 | 31 | 35 | 38 |
| | Low | | 24 | 30 | 34 | 37 |
| | Quiet | | 23 | 29 | 33 | 36 |
| Net Dimensions (H × W × D) | | mm | 270 × 1,135 × 700 | 270 × 1,135 × 700 | 270 × 1,135 × 700 | 270 × 1,135 × 700 |
| Weight | | kg | 36 | 40 | 40 | 40 |
| Connection pipe diameter | Liquid (Flare) | mm | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas (Flare) | | 15.88 | 15.88 | 15.88 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | |

Note: Specifications are subject to 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. Voltage: 230 [V].

## Optional parts

*For more details, please refer to the chapter “Optional parts”.

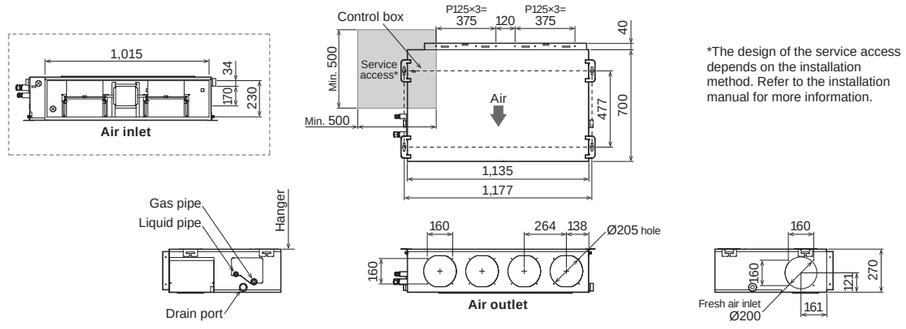
Long-life filter: UTD-LF25NA
Flange (square): UTD-SF045T
Flange (round): UTD-RF204

External power supply unit: UTZ-GXXA, UTZ-GXXC*
Remote sensor unit: UTY-XSZXZ1
IR receiver unit: UTY-TRHX

Drain pump unit: UTZ-PX1NBA
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
Silver Ion Filter: UTD-HFND

## Dimensions

(Unit: mm)



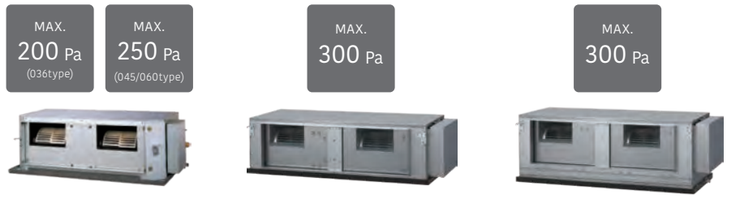

*The design of the service access depends on the installation method. Refer to the installation manual for more information.

# High Static Pressure Duct

Normal

## Static pressure mode selection

The use of a DC fan motor makes it possible to adjust the static pressure between 0 to 200 Pa (ARXC036) / 250Pa (ARXC045/060) / 300 Pa (ARXC072/090/096)




(ARXC036/045/060 type) (ARXC072/090 type) (ARXC096 type)

## Easy installation (Compact & Lightweight)

(Unit: mm)

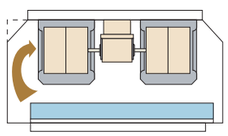
The indoor unit is designed to be compact and light by reducing the basic chassis size and the overall material weight.


(ARXC036/045/060 type) (ARXC072/090 type) (ARXC096 type)

## Low noise

**Models: ARXC036/ARXC045/ARXC060**

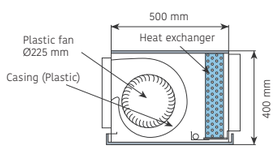
The corners of the front panel and fan casing of the indoor unit are shaved to reduce air turbulence. The use of a plastic case and fan reduces the noise level generated by the unit.



**ARXC036GTEH:**

Plastic fan [42 dB(A)]

* Model: Material (Actual noise measurement value measured at 100 Pa)




## High-efficiency DC fan motor achieves low energy consumption.

Improved motor efficiency compared to the previous model

(ARXC036/045/060 type) (ARXC072/090/096 type)



**Model: ARXC036GTEH / ARXC045GTEH / ARXC060GTEH**
**ARXC072GTEH / ARXC090GTEH / ARXC096GTEH**

ARXC036/045/060GTEH ARXC072/090GTEH ARXC096GTEH

## Specifications

| Model name | | | ARXC036GTEH | ARXC045GTEH | ARXC060GTEH* | ARXC072GTEH* | ARXC090GTEH* | ARXC096GTEH* |
|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | | | |
| Capacity | Cooling | kW | 11.2 | 12.5 | 18.0 | 22.4 | 25.0 | 28.0 |
| | Heating | | 12.5 | 14.0 | 20.0 | 25.0 | 28.0 | 31.5 |
| Input power | | W | 207 | 715 | 730 | 681 | 819 | 838 |
| Airflow rate | High | $m^3/h$ | 1,990 | 3,500 | 3,500 | 3,900 | 4,300 | 4,850 |
| | Med | | 1,680 | 3,000 | 3,000 | 3,300 | 4,000 | 4,250 |
| | Low | | 1,330 | 2,460 | 2,460 | 3,000 | 3,500 | 3,600 |
| Static pressure range | | Pa | 0 to 200 | 100 to 250 | 100 to 250 | 0 to 300 | 0 to 300 | 0 to 300 |
| Standard static pressure | | | 100 | 100 | 100 | 150 | 150 | 150 |
| Sound pressure level | High | dB(A) | 42 | 49 | 49 | 47 | 48 | 48 |
| | Med | | 36 | 45 | 45 | 43 | 46 | 45 |
| | Low | | 32 | 42 | 42 | 40 | 44 | 42 |
| Net Dimensions (H × W × D) | | mm | 400 × 1,050 × 500 | 400 × 1,050 × 500 | 400 × 1,050 × 500 | 450 × 1,587 × 700 | 450 × 1,587 × 700 | 550 × 1,587 × 700 |
| Weight | | kg | 40 | 46 | 46 | 84 | 84 | 105 |
| Connection pipe diameter | Liquid | mm | 9.52 (Flare) | 9.52 (Flare) | 9.52 (Flare) | 9.52 (Flare) | 9.52 (Flare) | 9.52 (Brazing) |
| | Gas | | 15.88 (Flare) | 15.88 (Flare) | 15.88 (Flare) | 19.05 (Flare) | 19.05 (Flare) | 22.22 (Brazing) |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | | | |

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. Voltage: 230 [V]
*: ARXC060/072/090/096G cannot be connected to J-IV/J-IVS Series.

## Optional parts

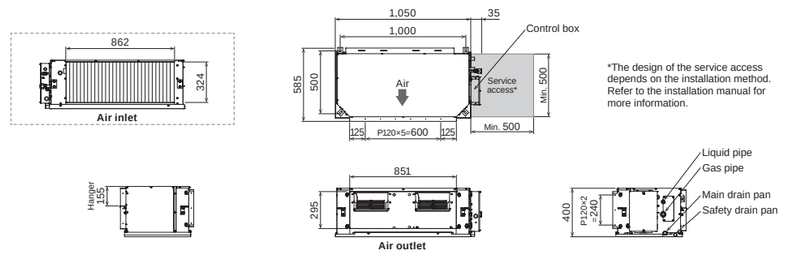
*For more details, please refer to the chapter "Optional parts".

**Long-life filter:** UTD-LF60KA (036/045/060)
**IR receiver unit:** UTY-TRHX
**External power supply unit:** UTZ-GXXA, UTZ-GXXC*
**Remote sensor unit:** UTY-XSZXZ1
**WLAN adapter:** UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
**Silver Ion Filter:** UTD-HFKB (036/045/060)

## Dimensions

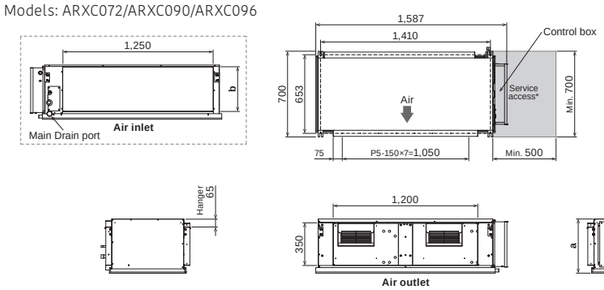
(Unit: mm)

Models: ARXC036/ARXC045/ARXC060




*The design of the service access depends on the installation method. Refer to the installation manual for more information.

Models: ARXC072/ARXC090/ARXC096




| | ARXC 072 / 090 GTEH | ARX C096 GTEH |
|---|---|---|
| a | 450 | 550 |
| b | 370 | 470 |

*The design of the service access depends on the installation method. Refer to the installation manual for more information.

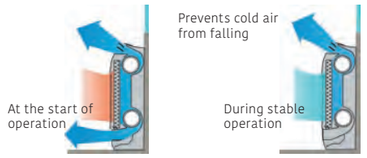
# Compact floor

DC FAN

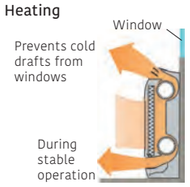
## 2-fan and wide airflow

A 2-fan individual vertical airflow cools or warms the entire room comfortably.

**Cooling**

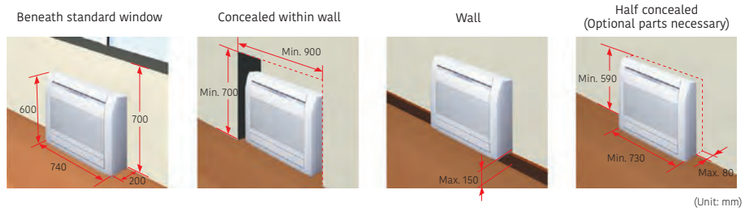



**Heating**




## Flexible and easy installation

The compact and whole-surface suction design provides flexible installation options, including floor-standing, embedded, partially embedded, and wall-mounted installation to match the room layout.




(Unit: mm)

## Quiet operation

6-fan speed control for quiet operation (via 2-wire controller)

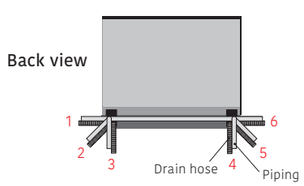
Low noise
22 dB(A)

004/007/009 models


* Remote controller is compatible with the following:
UTY-RVRY / UTY-LNVY / UTY-RNRYZ5 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ2 / UTY-ALGXZ1 / UTY-APGXZ1

## Flexible pipe connection enables draining and piping in 6 directions

The drain hose and pipe can be connected to the unit in the right, left, straight in depth, or downward direction.






**Model: AGYA004GCGH / AGYA007GCGH / AGYA009GCGH**
**AGYA012GCGH / AGYA014GCGH**

**[external EEV]**
**AGYE004GCEH / AGYE007GCEH / AGYE009GCEH**
**AGYE012GCEH / AGYE014GCEH**

## Specifications

| Model name | | | AGYA004GCGH | AGYA007GCGH | AGYA009GCGH | AGYA012GCGH | AGYA014GCGH | AGYE004GCEH | AGYE007GCEH | AGYE009GCEH | AGYE012GCEH | AGYE014GCEH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | | | Single phase, ~230 V, 50 Hz | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.0 | 1.1 | 2.2 | 2.8 | 3.6 | 4.0 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 4.5 | 1.3 | 2.8 | 3.2 | 4.0 | 4.5 |
| Input power | | W | 12/14 | 16 | 17 | 22 | 29 | 14 | 16 | 17 | 22 | 29 |
| Airflow rate | High | $m^3/h$ | 380/430 | 470 | 500 | 590 | 670 | 380/430 | 470 | 500 | 590 | 670 |
| | Med-High | | 350 | 420 | 450 | 520 | 590 | 350 | 420 | 450 | 520 | 590 |
| | Med | | 320 | 390 | 400 | 470 | 520 | 320 | 390 | 400 | 470 | 520 |
| | Med-Low | | 310 | 360 | 360 | 420 | 450 | 310 | 360 | 360 | 420 | 450 |
| | Low | | 280 | 330 | 330 | 390 | 390 | 280 | 330 | 330 | 390 | 390 |
| | Quiet | | 210 | 270 | 270 | 340 | 340 | 210 | 270 | 270 | 340 | 340 |
| Sound pressure level | High | dB(A) | 35/36 | 37 | 38 | 42 | 46 | 35/36 | 37 | 38 | 42 | 46 |
| | Med-High | | 33 | 35 | 36 | 39 | 42 | 33 | 35 | 36 | 39 | 42 |
| | Med | | 31 | 33 | 34 | 37 | 39 | 31 | 33 | 34 | 37 | 39 |
| | Med-Low | | 30 | 31 | 31 | 35 | 36 | 30 | 31 | 31 | 35 | 36 |
| | Low | | 28 | 29 | 29 | 33 | 33 | 28 | 29 | 29 | 33 | 33 |
| | Quiet | | 22 | 22 | 22 | 30 | 30 | 22 | 22 | 22 | 30 | 30 |
| Net Dimensions (H × W × D) | | mm | 600 × 740 × 200 | | | | | 600 × 740 × 200 | | | | |
| Weight | | kg | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 |
| | Gas (Flare) | | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 |
| Drain Hose Diameter (I.D./O.D.) | | | 13.8/15.8 to16.7 | | | | | 13.8/15.8 to16.7 | | | | |
| EV kit (optional) | | | - | | | | | UTR-EV09XB | | | UTR-EV14XB | |

Note: Specifications are subject to 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. Voltage: 230 [V]
When connecting AGHA004/007/009GCGH, AGHE004/007/009GCEH to an outdoor unit other than an outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø12.70 mm.

### Optional parts

*For more details, please refer to the chapter “Optional parts”.

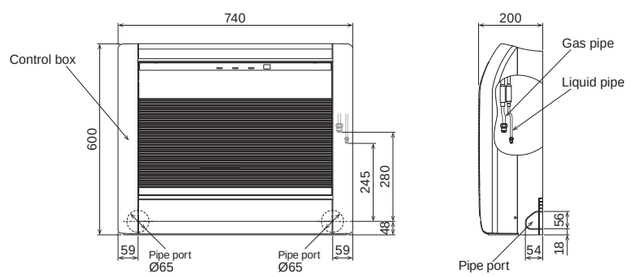
Partially concealing kit: UTR-STA
Silver Ion Filter: UTR-FA03-5

External power supply unit: UTZ-GXXA, UTZ-GXXC*

WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1

### Dimensions

(Unit: mm)



# Floor/Ceiling

DC FAN

## Flexible installation

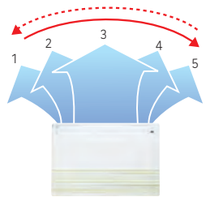
**Example of floor standing installation**
Floor standing console with the back against the wall

**Example of ceiling installation**
Under ceiling

## Double auto swing

The combination of horizontal and vertical swings enables 3-dimensional control of the airflow direction.

RIGHT and LEFT SWING




UP and DOWN SWING


4 steps selectable

## High-power DC fan motor

- High power
- Wide rotation range
- High-efficiency

## Compact design

(Unit: mm)

Symmetrical, slim and compact design.




**Model: ABYA012GTEH / ABYA014GTEH / ABYA018GTEH / ABYA024GTEH**

Floor standing

## Specifications

| Model name | | | ABYA012GTEH | ABYA014GTEH | ABYA018GTEH | ABYA024GTEH |
|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 4.0 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 30 | 42 | 74 | 99 |
| Airflow rate | High | $m^3/h$ | 660 | 780 | 1,000 | 1,000 |
| | Med-High | | 620 | 740 | 910 | 930 |
| | Med | | 580 | 690 | 830 | 870 |
| | Med-Low | | 550 | 640 | 750 | 800 |
| | Low | | 520 | 600 | 660 | 740 |
| | Quiet | | 490 | 550 | 580 | 680 |
| Sound pressure level | High | dB(A) | 36 | 40 | 46 | 47 |
| | Med-High | | 34 | 39 | 44 | 45 |
| | Med | | 33 | 38 | 42 | 43 |
| | Med-Low | | 31 | 36 | 40 | 41 |
| | Low | | 29 | 35 | 37 | 39 |
| | Quiet | | 28 | 34 | 35 | 37 |
| Net Dimensions (H × W × D) | | mm | 199 × 990 × 655 | 199 × 990 × 655 | 199 × 990 × 655 | 199 × 990 × 655 |
| Weight | | kg | 25 | 26 | 26 | 27 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 9.52 |
| | Gas (Flare) | | 12.70 | 12.70 | 12.70 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | |

Note: Specifications are subject to 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. Voltage: 230 [V]

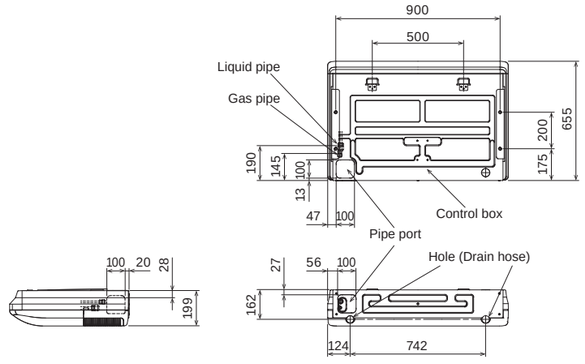
## Optional parts

*For more details, please refer to the chapter “Optional parts”.

External power supply unit: UTZ-GXXA, UTZ-GXXC*
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
Remote sensor unit: UTY-XSZXZ1

## Dimensions

(Unit: mm)

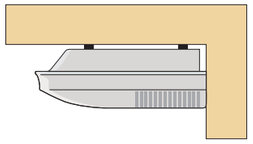


# Ceiling

DC FAN

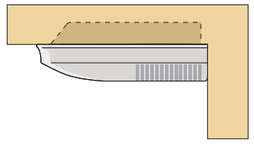
## Installation

**Open**



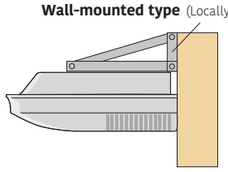
General installation with indoor unit installed on the ceiling

**Concealed**



Installation with indoor unit embedded into the ceiling

**Wall-mounted type** (Locally Available)



Wall-mounting brackets are used to mount the indoor unit on the wall. (Locally available)
This type of installation is used when the ceiling space is insufficient.

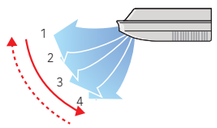
## Double auto swing and wide airflow

Auto airflow direction and auto swing

Left/Right

5 steps selectable

Up/Down



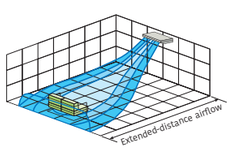

4 steps selectable

## High-power DC fan motor

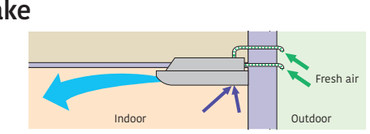
- High power
- Wide rotation range
- High-efficiency

## Long airflow

Long airflow provides comfort in every corner of a large room.




## Fresh air intake




## Slim & Compact design




**Model: ABYA030GTEH / ABYA036GTEH / ABYA045GTEH / ABYA054GTEH**

## Specifications

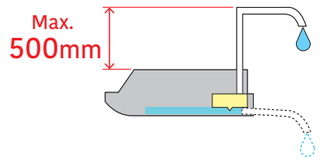
| Model name | | | ABYA030GTEH | ABYA036GTEH | ABYA045GTEH | ABYA054GTEH |
|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | |
| Capacity | Cooling | kW | 9.0 | 11.2 | 12.5 | 14.0 |
| | Heating | | 10.0 | 12.5 | 14.0 | 16.0 |
| Input power | | W | 66 | 85 | 131 | 180 |
| Airflow rate | High | $m^3/h$ | 1,630 | 1,690 | 2,010 | 2,270 |
| | Med-High | | 1,520 | 1,560 | 1,840 | 2,070 |
| | Med | | 1,420 | 1,450 | 1,690 | 1,860 |
| | Med-Low | | 1,320 | 1,360 | 1,530 | 1,660 |
| | Low | | 1,220 | 1,270 | 1,380 | 1,470 |
| | Quiet | | 1,140 | 1,170 | 1,230 | 1,280 |
| Sound pressure level | High | dB(A) | 42 | 45 | 48 | 51 |
| | Med-High | | 40 | 41 | 46 | 49 |
| | Med | | 39 | 39 | 45 | 46 |
| | Med-Low | | 37 | 38 | 41 | 43 |
| | Low | | 35 | 36 | 38 | 40 |
| | Quiet | | 33 | 34 | 35 | 36 |
| Net Dimensions (H × W × D) | | mm | 240 × 1,660 × 700 | 240 × 1,660 × 700 | 240 × 1,660 × 700 | 240 × 1,660 × 700 |
| Weight | | kg | 46 | 48 | 48 | 48 |
| Connection pipe diameter | Liquid (Flare) | mm | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas (Flare) | | 15.88 | 15.88 | 15.88 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 25/32 | | | |

Note: Specifications are subject to 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. Voltage: 230 [V]

## Optional parts

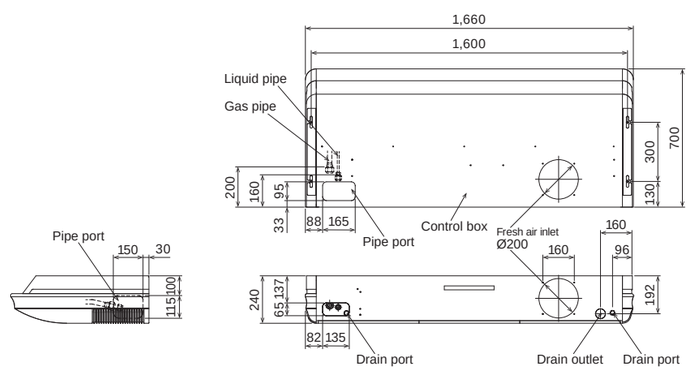
*For more details, please refer to the chapter "Optional parts".

| | |
|---|---|
| Drain pump unit: | UTR-DPB24T |
| Flange: | UTD-RF204 |
| External power supply unit: | UTZ-GXXA, UTZ-GXXC* |
| WLAN adapter: | UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1 |
| Remote sensor unit: | UTY-XSZXZ1 |




## Dimensions

(Unit: mm)



# Wall-mounted type

DC FAN

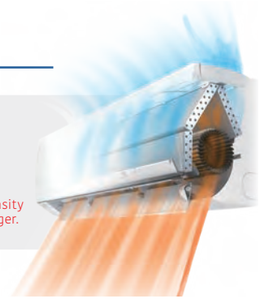
## Highly-efficiency, compact design

The 004-014 models share the same design.
The high-density and large heat exchanger achieves a highly-efficiency and compact design.
The compact body blends in well with conference rooms and offices, providing comfortable air conditioning.

High-density heat exchanger


**Slim tube design: 5 mm**

Greater heat-exchanging capacity is achieved through the use of a high-density heat exchanger and a sub-heat exchanger.

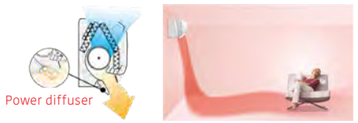


## More comfortable airflow

The unique power diffuser provides comfortable air conditioning.

### Heating

The vertical airflow provides powerful floor-level heating.

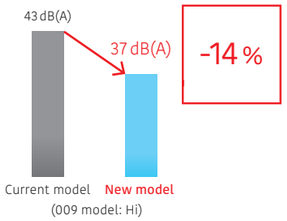


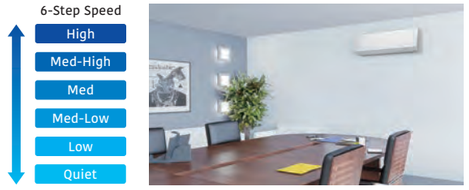

### Cooling

The left/right airflow avoids blowing cool air directly at the occupants in a room.


## Quiet operation & 6-Step fan speed control

The airflow pattern achieves significant noise reduction.
Multistep airflow adjustment to suit the environment



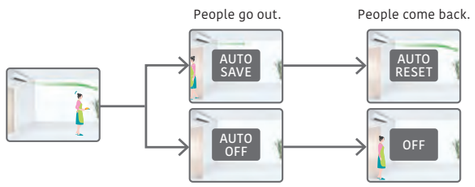




* Remote controller is compatible with the following:
UTY-RVRY / UTY-LNVY / UTY-RNRYZ5 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ2 / UTY-ALGXZ1 / UTY-APGXZ1

## The Human sensor contributes to further energy savings.

Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

* If you want to use the Occupancy sensor control' function, you need an setting device that can set the Occupancy sensor control' function. For example: Wired RC (Touch panel).






**Model: ASYA004GCGH / ASYA007GCGH / ASYA009GCGH**
**ASYA012GCGH / ASYA014GCGH**

**[external EEV]**
**ASYE004GCEH / ASYE007GCEH / ASYE009GCEH**
**ASYE012GCEH / ASYE014GCEH**

## Specifications

| Model name | | | ASYA004GCGH | ASYA007GCGH | ASYA009GCGH | ASYA012GCGH | ASYA014GCGH | ASYE004GCEH | ASYE007GCEH | ASYE009GCEH | ASYE012GCEH | ASYE014GCEH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | | | | Single phase, ~230 V, 50 Hz | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.0 | 1.1 | 2.2 | 2.8 | 3.6 | 4.0 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 4.5 | 1.3 | 2.8 | 3.2 | 4.0 | 4.5 |
| Input power | | W | 12 | 19 | 20 | 25 | 36 | 12 | 19 | 34 | 25 | 36 |
| Airflow rate | High | $m^3/h$ | 450 | 550 | 610 | 690 | 800 | 450 | 550 | 610 | 690 | 800 |
| | Med-High | | 430 | 510 | 560 | 610 | 740 | 430 | 510 | 560 | 610 | 740 |
| | Med | | 400 | 470 | 510 | 560 | 680 | 400 | 470 | 510 | 560 | 680 |
| | Med-Low | | 380 | 410 | 440 | 530 | 610 | 380 | 410 | 440 | 530 | 610 |
| | Low | | 360 | 360 | 360 | 470 | 550 | 360 | 360 | 360 | 470 | 550 |
| | Quiet | | 310 | 310 | 310 | 330 | 330 | 310 | 310 | 310 | 330 | 330 |
| Sound pressure level | High | dB(A) | 31 | 34 | 37 | 40 | 44 | 31 | 35 | 43 | 40 | 44 |
| | Med-High | | 30 | 32 | 35 | 37 | 42 | 30 | 32 | 38 | 37 | 42 |
| | Med | | 28 | 30 | 32 | 35 | 40 | 28 | 30 | 34 | 35 | 40 |
| | Med-Low | | 27 | 28 | 29 | 33 | 37 | 27 | 27 | 29 | 33 | 37 |
| | Low | | 26 | 26 | 26 | 30 | 34 | 26 | 24 | 24 | 30 | 34 |
| | Quiet | | 22 | 22 | 22 | 24 | 24 | 22 | 22 | 22 | 24 | 24 |
| Net Dimensions (H × W × D) | | mm | 268 × 840 × 203 | | | | | 268 × 840 × 203 | | | | |
| Weight | | kg | 8.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.0 | 8.5 | 8.5 | 8.5 | 8.5 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 |
| | Gas (Flare) | | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 | 9.52 | 9.52 | 9.52 | 12.70 | 12.70 |
| Drain Hose Diameter (I.D./O.D.) | | | 13.8/15.8 to16.7 | | | | | 13.8/15.8 to16.7 | | | | |
| EV kit (optional) | | | – | | | | | UTR-EV09XB | | | UTR-EV14XB | |

Note: Specifications are subject to 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. Voltage: 230 [V]
When connecting ASY*004G**H, ASY*007G**H, ASY*009G**H to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø12.70 mm.

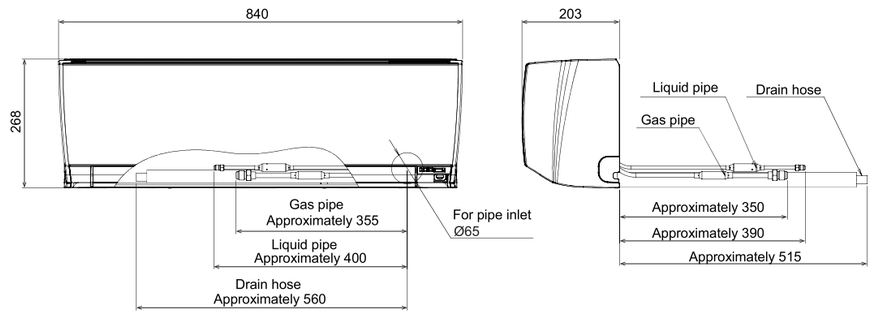
## Optional parts

*For more details, please refer to the chapter "Optional parts".

External power supply unit: UTZ-GXXA, UTZ-GXXC*
Silver Ion Filter: UTR-FA16-5
Remote sensor kit: UTY-XSZXZ1
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1

## Dimensions

(Unit: mm)



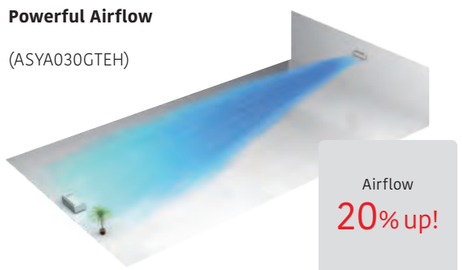
# Wall-mounted type

DC FAN

## Powerful & Comfort airflow

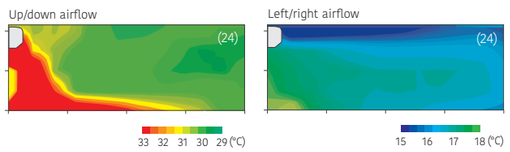
**Powerful Airflow**

(ASYA030GTEH)




**Power diffuser**

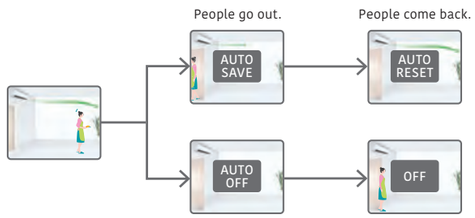
(ASYA18/24GBCH)




## The Human sensor contributes to further energy savings (ASYA030/034GTEH only)

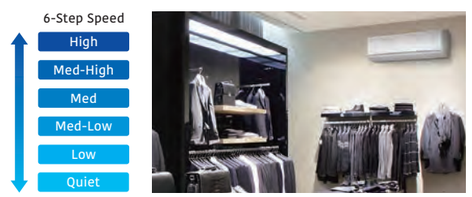
Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

* If you want to use the Human sensor control' function, you need an setting device that can set the Human sensor control' function. For example: Wired RC (Touch panel).




## 6-step fan speed control for quiet operation

The airflow pattern achieves significant noise reduction. A 6-step sound level setting allows for multiple-step silent operations.


* Remote controller is compatible with the following:
UTY-RVRY / UTY-LNVY / UTY-RNRYZ5 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ2 / UTY-ALGXZ1 / UTY-APGXZ1



**Model: ASYA18GBCH / ASYA24GBCH**

**ASYA030GTEH / ASYA034GTEH**

ASYA18/24GBCH

ASYA030/034GTEH

## Specifications

| Model name | | | ASYA18GBCH | ASYA24GBCH | ASYA030GTEH | ASYA034GTEH |
|---|---|---|---|---|---|---|
| Power source | | | Single phase, ~230 V, 50 Hz | | Single phase, ~230 V, 50 Hz | |
| Capacity | Cooling | kW | 5.6 | 7.1 | 9.0 | 10.0 |
| | Heating | | 6.3 | 8.0 | 10.0 | 11.2 |
| Input power | | W | 32 | 60 | 74 | 103 |
| Airflow rate | High | $m^3/h$ | 840 | 1,100 | 1,440 | 1,620/1,520 |
| | Med-High | | - | - | 1,200 | 1,300 |
| | Med | | 770 | 910 | 1,050 | 1,120 |
| | Med-Low | | - | - | 940 | 980 |
| | Low | | 690 | 730 | 890 | 890 |
| | Quiet | | - | - | 700 | 700 |
| Sound pressure level | High | dB(A) | 41 | 48 | 53 | 55/54 |
| | Med-High | | - | - | 49 | 51 |
| | Med | | 39 | 43 | 45 | 47 |
| | Med-Low | | - | - | 42 | 43 |
| | Low | | 35 | 35 | 39 | 39 |
| | Quiet | | - | - | 33 | 33 |
| Net Dimensions (H × W × D) | | mm | 320 × 998 × 238 | 320 × 998 × 238 | 340 × 1,150 × 280 | 340 × 1,150 × 280 |
| Weight | | kg | 15 | 15 | 18 | 18 |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 9.52 | 9.52 | 9.52 |
| | Gas (Flare) | | 12.70 | 15.88 | 15.88 | 15.88 |
| Drain Hose Diameter (I.D./O.D.) | | | 12/16 | | 13.8/15.8 to16.7 | |

Note: Specifications are subject to 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. Voltage: 230 [V].
When connecting ASYA18GBCH to an outdoor unit other than the outdoor unit of the J-IVL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).

## Optional parts

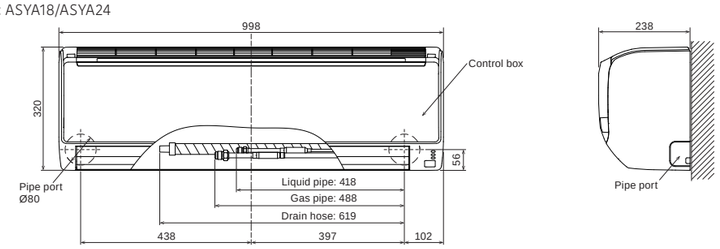
*For more details, please refer to the chapter "Optional parts".

External power supply unit: UTZ-GXXA (030/034), UTZ-GXXC* (030/034)
Remote sensor kit: UTY-XSZXZ1
WLAN adapter: UTY-TFSXJ3 (030/034), UTY-TFSXZ1 (030/034)
FG-RC-WIF1Z2 (18/24), FG-AC-WIF1Z1 (030/034)
Silver Ion Filter: UTR-FA13-3

## Dimensions

(Unit: mm)

Models: ASYA18/ASYA24




Models: ASYA030/ASYA034