

Fujitsu Commercial Air Conditioning



The new generation of
control and efficiency
for commercial applications

WORLD FIRST CONTROL FEATURES

Featuring New Zealand's first ever Ducted Commercial Air Conditioning systems to be given ENERGY STAR® ratings by EECA as being in the top 25% in energy efficiency.



New Zealand's
Most Energy Efficient
Products

Advanced Commercial Solutions for New Zealand

FUJITSU

COMMERCIAL
AIR CONDITIONING

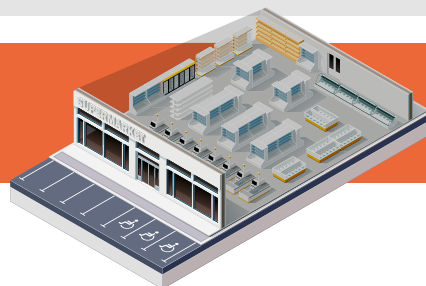
The New Generation in Commercial Air Conditioning

Fujitsu General have been air conditioning specialists for over 50 years, pioneering breakthroughs in Heating, Ventilating, Air Conditioning and Energy Recovery.

The Commercial Air Conditioning range includes unique benefits such as NZ's first ever ENERGY STAR® ducted systems; world first features in control for flexibility and ease of control and economy for individual, central and right up to building management systems.

Large homes to light commercial

Featuring NZ's first ever range of ENERGY STAR® qualified Ducted systems, this totally comprehensive range also includes Cassettes, Under Ceiling Models and Multi-Room Systems.



Fujitsu VRF Technology

AIRSTAGE™ VRF

Fujitsu General has been a world innovator in Commercial VRF Systems for the past decade, and now offers advanced systems for all applications with total flexibility of control.

Large homes to commercial

AIRSTAGE J-II

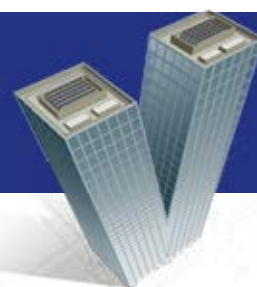
The totally flexible solution to heat, cool and save energy. It's efficiency is matched with ease of design and easy maintenance.



Large buildings

AIRSTAGE V-II & AIRSTAGE VR-II

Large capacity Multi VRF Systems that offer simultaneous heating and cooling with Energy Recovery System. Brilliant new central and individual control options, and a new approach to design and installation with long piping and easier maintenance.



Energy recovery

Energy Recovery Ventilator delivers effective heat exchange and tempered simultaneous fresh air ventilation, quietly and very efficiently.

Need any specifications or help? Go to PiP

Fujitsu's Product Information Portal: All the information you need at your fingertips



User friendly control

Fujitsu General is using ergonomics to expand the use of user friendly designs such as easy-to-read large LCD displays, easy-to-operate buttons, and displays with easily recognisable colours and icons.

We are producing control systems that provide greater convenience for both individual and centralised control with operability suitable for the application. Features include one-touch selection and a range of batch control operation methods.

Individual wall control

LCD + Simple + Zone Control



LCD wall controller



Simple wall controller



Zone controller

- Central & Individual Control
- User-friendly operation

Individual remote control

New Slim + Wireless

Slim, friendly
remote controller



Central management control

Touch Panel + System controller

Central
management
controller



Touch panel
controller



System controller



Our range of Ducted Air Conditioning

Fujitsu's range of Ducted Air Conditioners has been designed to cover a wide variety of retail and commercial business needs. With heating capacities ranging from 6kW to 28kW and a variety of styles, it is now possible to utilise the efficiencies and control advantages of a Fujitsu ducted system in most situations.

The Smaller Business favourite

These superb systems have been developed to meet the needs of smaller commercial situations and limited budgets.

Their affordability and especially low running costs makes them amongst the most efficient commercial systems available (ENERGY STAR® qualified), and firm favourites for smaller projects.



ARTG24LMLC



Heating capacity: 8.0kW
Heating efficiency: COP 3.65
Cooling capacity: 7.1kW
Cooling efficiency: EER 3.40
Quiet mode: just 25dB
Static Pressure: 30-150 Pa
Airflow: max 305 l/s

ARTA36LATU



Heating capacity: 11.2kW
Heating efficiency: COP 3.71
Cooling capacity: 10.0kW
Cooling efficiency: EER 3.21
Quiet mode: just 26dB
Static Pressure: 30-150 Pa
Airflow: max 514 l/s

ARTA30LBTU



Heating capacity: 10.0kW
Heating efficiency: COP 3.73
Cooling capacity: 8.5kW
Cooling efficiency: EER 3.21
Quiet mode: just 29dB
Static Pressure: 30-150 Pa
Airflow: max 583 l/s

ARTA45LATU

Heating capacity: 14.0kW
Heating efficiency: COP 3.48
Cooling capacity: 11.5kW
Cooling efficiency: EER 3.23
Quiet mode: just 28dB
Static Pressure: 30-150 Pa
Airflow: max 583 l/s

Fujitsu's commercial systems offer a wide range optional vents and units to meet every project scope and application, as well as achieving visually intuitive design.

Bulkhead Type

Compact design allows them to be installed into the cavity of your ceiling, at floor level or in a wall. Typically for a single room application.

ARTG18LLTA



Heating capacity: 6.0kW
Heating efficiency: COP 3.85
Cooling capacity: 5.2kW
Cooling efficiency: EER 3.59

Quiet mode: just 27dB
Static Pressure: 0-90 Pa
Airflow: max 261 l/s



Single Phase – Compact Chassis

These compact chassis systems make hi-static models easy to install without compromising performance. Their excellent static pressures make them ideal for long duct runs or many outlets.

ARTG30LHTA



Heating capacity: 11.2kW
Heating efficiency: COP 3.8
Cooling capacity: 9.0kW
Cooling efficiency: EER 3.33
Static Pressure: 60-210 Pa
Airflow: max 695 l/s

ARTG36LHTA



Heating capacity: 12.1kW
Heating efficiency: COP 3.67
Cooling capacity: 10.5kW
Cooling efficiency: EER 3.30
Static Pressure: 60-210 Pa
Airflow: max 695 l/s

ARTG45LHTA



Heating capacity: 14.0kW
Heating efficiency: COP 3.68
Cooling capacity: 12.5kW
Cooling efficiency: EER 3.10
Static Pressure: 60-260 Pa
Airflow: max 900 l/s

ARTG54LHTA

Heating capacity: 16.0kW
Heating efficiency: COP 3.6
Cooling capacity: 14.0kW
Cooling efficiency: EER 3.00
Static Pressure: 60-260 Pa
Airflow: max 986 l/s



High capacity heating and cooling

These larger ducted systems are ideal for a wide range of small business, retail and commercial premises. They deliver up to 28kW of heat, yet retain the superb efficiencies and quietness of the smaller capacity models.

ARTG60LHTA

Heating capacity: 18.0kW
Heating efficiency: COP 3.50
Cooling capacity: 15.0kW
Cooling efficiency: EER 3.19
Static Pressure: 60-260 Pa
Airflow: max 986 l/s

ARTC72LATU

Heating capacity: 22.6kW
Heating efficiency: COP 3.60
Cooling capacity: 20.3kW
Cooling efficiency: EER 3.25
Static Pressure: 50-250 Pa
Airflow: max 1190 l/s

ARTC90LATU

Heating capacity: 28.0kW
Heating efficiency: COP 3.40
Cooling capacity: 25.0kW
Cooling efficiency: EER 3.20
Static Pressure: 50-250 Pa
Airflow: max 1340 l/s



HIGH STATIC PRESSURE DUCT



SLIM DUCT (INTERNAL DRAIN PUMP)



COMPACT DUCT BULKHEAD

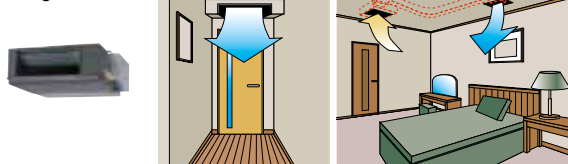


LOW STATIC PRESSURE DUCT

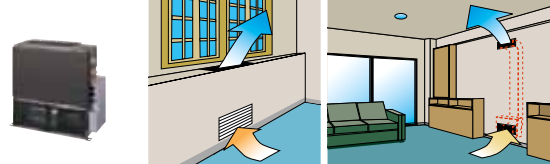
Features:

Flexible installation

Ceiling concealed

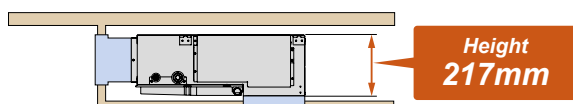


Floor concealed



Compact design

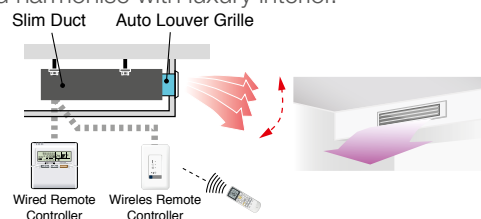
Ultra-slim duct air conditioner for easy installation



Slim size (217mm) allows installation even where the space above the ceiling is narrow.

Auto Louver Grille Kit (Option)

Simple flat Auto Louver will provide comfort airflow and harmonise with luxury interior.



Under Ceiling

Powerful, more efficient, quieter

The Under Ceiling model is an ideal unit for commercial and other big open space, high ceiling applications. Fujitsu Inverter technology and the highly efficient DC components provide low cost operation with improved energy efficiency.

These models also incorporate Quiet Mode that delivers super quiet operation, despite powerful airflow. Other features include air filter maintenance indicator and optional condensate drain pump.



ABTA36LAT



Heating capacity: 11.2kW
 Heating efficiency: COP 3.71
 Cooling capacity: 10.0kW
 Cooling efficiency: EER 3.21

ABTA45LAT



Heating capacity: 14.0kW
 Heating efficiency: COP 3.41
 Cooling capacity: 11.5kW
 Cooling efficiency: EER 3.23

ABTG54LRTA

30
Power

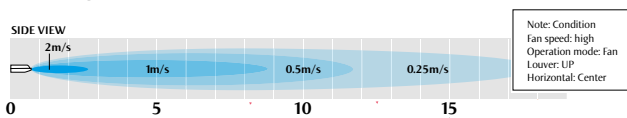
Heating capacity: 16.0kW
 Heating efficiency: COP 3.43
 Cooling capacity: 13.8kW
 Cooling efficiency: EER 3.18





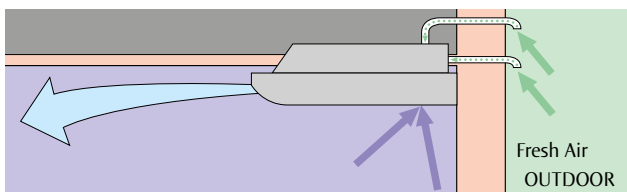
Long distance airflow

High performance fans deliver long distance airflow of up to 12-18 metres, ensuring comfort to every corner of a large room.

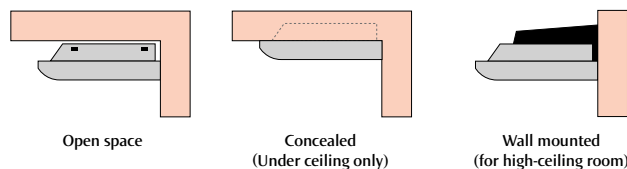


Fresh-air intake

Takes in fresh air passively and mixes with conditioned/tempered air of the indoor unit.



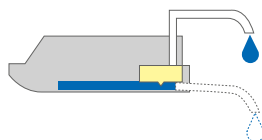
Installation options



Condensate pump - UTR-DPB24T (Optional)

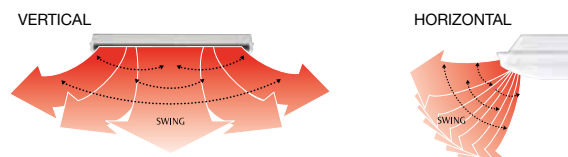
The condensate water pump offers a more flexible installation by lifting the drain and discharge point 300mm.*

*For installation instructions, refer to specifications.



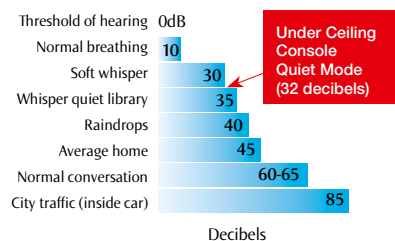
Double auto swing

Control over air direction swing is possible through dual use of both up/down and right/left air direction swing.



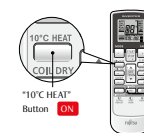
Quiet operation

Quiet mode provides a super quiet environment.



10°C heat operation

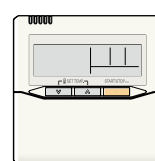
This function on the remote control will prevent the room temperature from falling below 10°C, so the room will never be too cold when you are away.



Optional controllers



UTY-RVNYN



UTB-TUD
Multi function wall
controller

Standard controller



Standard
remote controller

Our range of Cassettes

These powerful heaters are also very discreet, with just the grill showing in the ceiling. The compact models can fit into a standard ceiling panel, and they all incorporate the latest in fan technology to distribute the heat quickly and evenly throughout the room.

Compact Ceiling Cassette



AUTG18LVL*



Heating capacity: 6.0kW
Heating efficiency: COP 3.61
Cooling capacity: 5.2kW
Cooling efficiency: EER 3.33

AUTG24LVL*



Heating capacity: 8.0kW
Heating efficiency: COP 3.61
Cooling capacity: 7.1kW
Cooling efficiency: EER 3.29



High Capacity Cassette



AUTA30LBL*



Heating capacity: 10.0kW
Heating efficiency: COP 3.61
Cooling capacity: 8.5kW
Cooling efficiency: EER 3.31

AUTA36LCL*



Heating capacity: 11.2kW
Heating efficiency: COP 3.76
Cooling capacity: 10.0kW
Cooling efficiency: EER 3.4

AUTA45LCL*

Heating capacity: 14.0kW
Heating efficiency: COP 3.66
Cooling capacity: 12.5kW
Cooling efficiency: EER 3.21

AUTG54LRL*

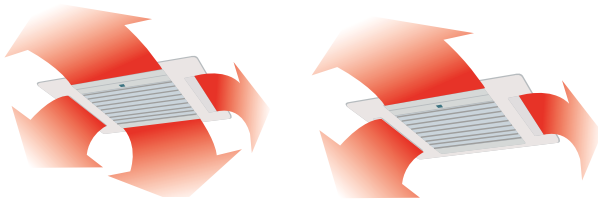
Heating capacity: 16.0kW
Heating efficiency: COP 3.61
Cooling capacity: 14.0kW
Cooling efficiency: EER 3.21



Better airflow and comfort

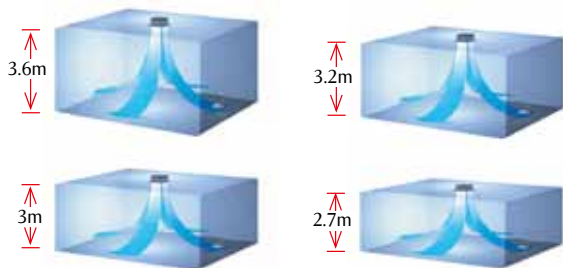
3-4 way air distribution

When the indoor unit is placed in the centre of the room the 4 way airflow reaches the corners of the room. If the indoor unit is located adjacent to a wall the 3 way option can provide optimum airflow into the room also.

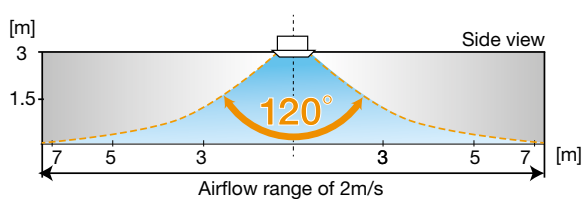


Reaching the whole room

Heated air quickly and evenly reaches the whole room with directional airflow technology. The indoor unit can be set to operate optimally where ceiling heights are up to 3.6m.



Large Cassette model of wide reaching airflow range



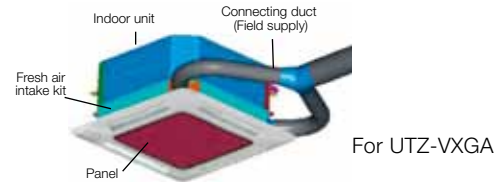
Built-in condensate pump

During cool or dry mode condensate water will be present; the built-in pump can pump the water up to 700mm (compact) or 850mm (large) above the unit to a gravity drain.

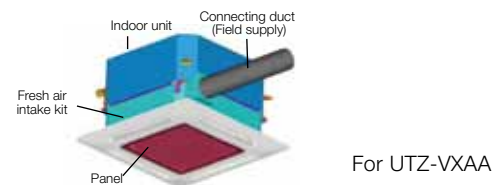


Fresh air

When there is no facility to access fresh air it is possible to use this kit to introduce the outside air via the indoor unit.



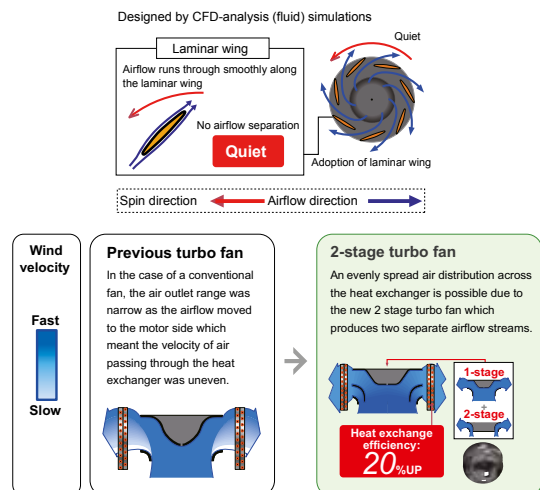
Above is Optional Fresh Air kit for the large Cassette models because it has 2 intake ducts.



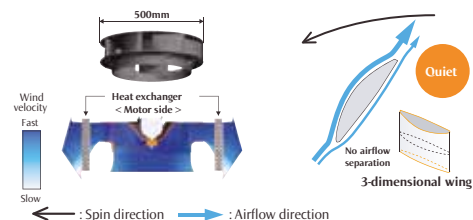
Optional Fresh Air kit for the Compact Cassette models, because it has 1 intake duct.

High-efficient turbo fan features

High efficiency is achieved with the compact cassette by equalling the performance of the wing and the air passing the heat exchanger.



The improvement to the large cassette fan blade design means less turbulent noise is created and better airflow control is achieved, making for a more effective and quieter experience.

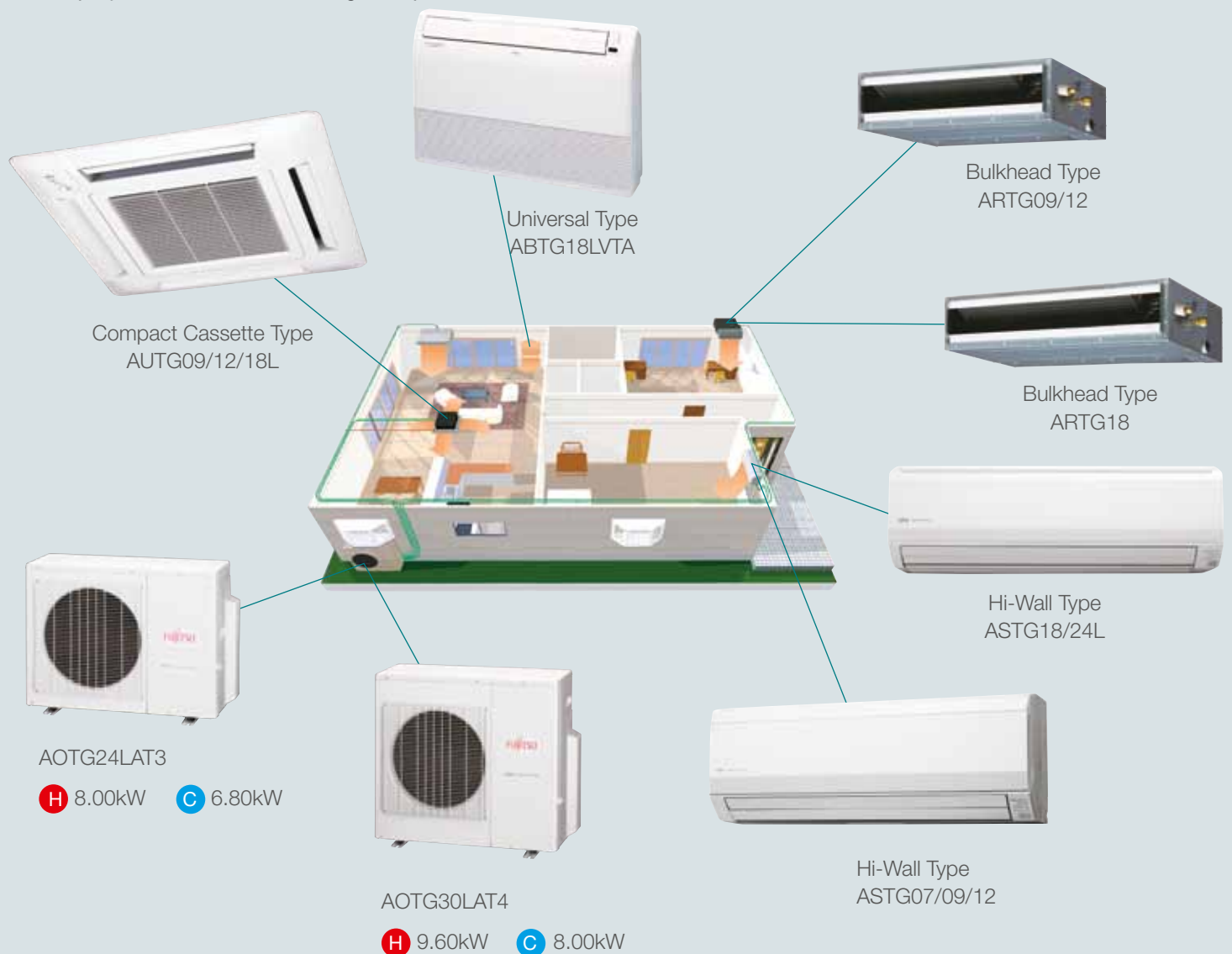


Inverter Multi Room Systems


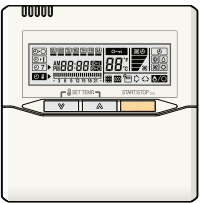



Fujitsu's new Multi-systems deliver air-conditioned heating and cooling to 2, 3 or 4 rooms or offices from one outdoor unit.

Advantages include economy, plus flexibility of choice for the indoor units from hi-wall, floor, bulkhead or cassette, ranging in capacity from 2.0kW to 7.0kW.

This diverse choice delivers the right combination to meet the requirements of many small commercial projects, from offices to large shops.



Controller options

LCD Controller	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	
				
UTY-RVNYN	UTY-RNNYN	UTY-RSNNYN	AR-RAH1E	AR-RAH2E

Type	Model	Indoor Units				
		Compact Cassette (AUTG)	Slim Duct (ARTG)	Compact Wall Mounted (ASTG_LVCA)	Wall Mounted (ASTG_LFCA)	Floor / Ceiling (ABTG)
Wired Remote Controller	UTY-RNNYN	○	○	○	○	○
Wired Remote Controller	UTY-RNNYN	○	●	○	○	○
Wireless Remote Controller	AR-RAH2E	-	-	-	●	●
	AR-RAH1E	●	-	●	-	-
Simple Remote Controller	UTY-RSNNYN	○	○	○ ^{*1}	○	○

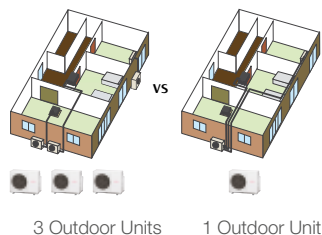
● Included Function ○ Optional Function *1 Optional Communication Kit (UTY-XCBXZ1) is necessary for the installation

Independent control

Each indoor unit can be operated independently. This means that on / off, temperature, air movement, time clock operation can all be controlled from their own controller. (The multi system cannot be operated in heat and cool mode simultaneously).

Flexible installation

Fujitsu Multi systems can be installed in large buildings and over multiple floors due to the long maximum allowable pipe length.



Maximum Pipe length (each unit): 25m (AOTG24LAT3/30LAT4)
 Max. Height: 15m (AOTG24LAT3/30LAT4)
 Total Piping Length: 50m (AOTG24LAT3) 70M (AOTG30LAT4)

Innovative technology



High efficiency / low noise large fan

Newly designed fans have been used to increase airflow efficiency, at the same time as significantly reducing sound pressure



Heat exchanger

A new 3 row heat exchanger has been used which allows for a more compact outdoor unit with higher energy efficiency.



DC fan motor

High performance and high efficiency has been achieved by using a new smaller DC Fan Motor.

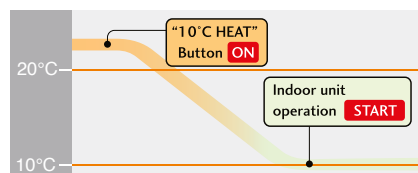


High efficiency DC Twin Rotary Compressor

A high performance, low noise, large capacity DC Twin Rotary Compressor is used.

10°C heat operation

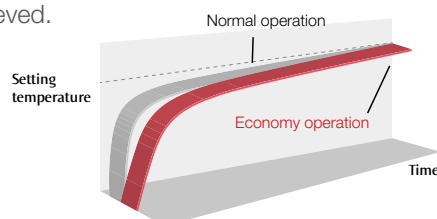
Operation starts and maintains the room temperature at 10°C when the temperature drops below 10°C.



NB When the room temperature is higher than 10°C, "10°C HEAT" operation does not start.

Economy operation

By maintaining a slightly higher temperature in cool mode, lower temperature in heat mode and limiting the maximum current draw real energy savings are achieved.





Indoor units combination possibilities

The multi system is a technically advanced heat pump system. To keep design possibilities simple we have compiled tables of the only permissible configurations, please refer to the table that will suit your situation. The total capacity of the system is limited to the outdoor unit's capacity and its ability to deliver to the combined indoor units.

AOTG24LAT3 combinations

No. of Combos	BTU Total	Room 1	Room 2	Room 3
1	14	7	7	-
2	16	7	9	-
3	19	7	12	-
4	25	7	18	-
5	18	9	9	-
6	21	9	12	-
7	27	9	18	-
8	24	12	12	-
9	30	12	18	-
10	21	7	7	7
11	23	7	7	9
12	26	7	7	12
13	25	7	9	9
14	28	7	9	12
15	31	7	12	12
16	27	9	9	9
17	30	9	9	12
18	33	9	12	12
19	36	12	12	12

AOTG30LAT4 combinations

No. of Combos	BTU total	Room 1	Room 2	Room 3	Room 4
1	32	7	7	18	-
2	38	7	7	24	-
3	28	7	9	12	-
4	34	7	9	18	-
5	40	7	9	24	-
6	31	7	12	12	-
7	37	7	12	18	-
8	43	7	12	24	-
9	43	7	18	18	-
10	49	7	18	24	-
11	27	9	9	9	-
12	30	9	9	12	-
13	36	9	9	18	-
14	42	9	9	24	-
15	33	9	12	12	-
16	39	9	12	18	-
17	45	9	12	24	-
18	45	9	18	18	-
19	36	12	12	12	-
20	42	12	12	18	-
21	48	12	12	24	-
22	48	12	18	18	-
23	28	7	7	7	7
24	30	7	7	7	9
25	33	7	7	7	12
26	39	7	7	7	18
27	32	7	7	9	9
28	35	7	7	9	12
29	41	7	7	9	18
30	38	7	7	12	12
31	44	7	7	12	18
32	34	7	9	9	9
33	37	7	9	9	12
34	43	7	9	9	18
35	40	7	9	12	12
36	46	7	9	12	18
37	43	7	12	12	12
38	49	7	12	12	18
39	36	9	9	9	9
40	39	9	9	9	12
41 *1	45	9	9	9	18
42	9	9	9	12	12
43 *2	48	9	9	12	18
44	45	9	12	12	12
45	48	12	12	12	12

These tables represent the only allowable indoor unit combinations for the Multi outdoor models AOTG24LAT3 and AOTG30LAT4.

No other combinations are permissible. Correct operation cannot be guaranteed if connected as a configuration not shown on these tables.

Like the J Series product, the multi is a technically advanced heat pump system and because of this we strongly recommend that your specialist consults the technical manual for actual output capacities of varying combinations and ambient conditions.

Combinations that are not permissible

*1 ARTG09L + ARTG09L + ARTG09L + ASTG18L

*2 ARTG09L + ARTG09L + ARTG12L + ASTG18L

KEY

7	=	7,000 BTU / hr model (2.1kW)
9	=	9,000 BTU / hr model (2.6kW)
12	=	12,000 BTU / hr model (3.5kW)
18	=	18,000 BTU / hr model (5.3kW)
24	=	24,000 BTU / hr model (7.0kW)

Installation precautions

AOTG24LAT3

Connectable capacity range: 14,000 - 36,000 BTU.
At least two indoor units must be connected

ASTG24LFCA

Cannot be connected to this outdoor model

AOTG30LAT4

Connectable capacity range: 27,000 - 49,000 BTU

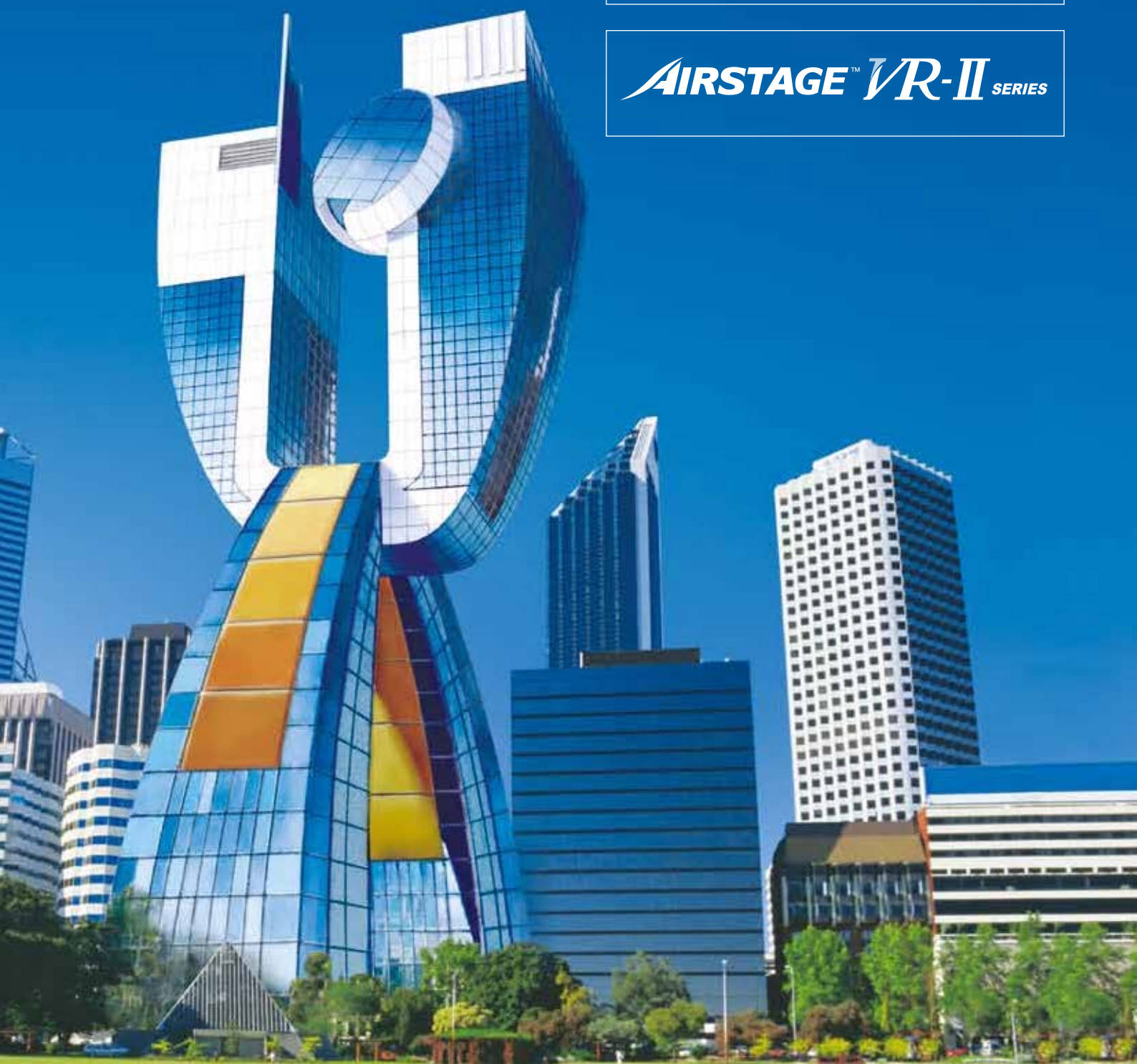
At least three indoor units totalling 32,000 BTUs must be connected

If it can be designed, we can air condition it.

AIRSTAGE™ J-II SERIES

AIRSTAGE™ V-II SERIES

AIRSTAGE™ VR-II SERIES



Creation of Comfort



Fujitsu General have been developing and manufacturing high quality and energy efficient products for more than 35 years. Using the latest Japanese technology and state of the art expertise, our products have been designed in accordance with our policy to “create the most comfortable environment” possible.



S series
10HP /
Heat recovery
& Heat pump



10HP / Heat recovery
8,10HP / Heat pump
& Cooling

For Commercial Use

HISTORY

2001

2003

Providing maximum comfort

Fujitsu General's VRF AIRSTAGE Series was first launched 11 years ago and has been developed using the latest in Air Conditioning technology. With different products to suit everything from homes to large scale buildings, we are sure to have something to suit your needs.



Building owners



Installers



End users



Service and Management
companies

VR-II Heat Recovery 8 to 42HP



V series
8 to 42HP / Heat pump



V-II series
High efficiency and Compact design model
Extensive lineup from 8HP to
48HP in 2HP increment / Heat pump

2004

2006

2009

2011

2012

For Residential & Light Commercial Use

J series
6HP / Heat pump



J-II series
High efficiency model
4HP to 6HP / Heat pump



High quality development and production environment

The Headquarters-R&D Center (Japan) is equipped with a wide range of testing equipment envisioning a variety of operating conditions. This includes a testing tower with a 60m height difference for buildings. We provide high quality & reliable products that meet the customers' needs from all over the world through this advanced R&D Center and 6 factories based in China and Thailand.



R&D Center (Japan) and 60m height testing tower
Central R&D center for global air conditioner development



FUJITSU GENERAL CENTRAL
AIR-CONDITIONER(WUXI)CO.,LTD.(China)
VRF Main factory. ISO9001 and ISO14001 certified.

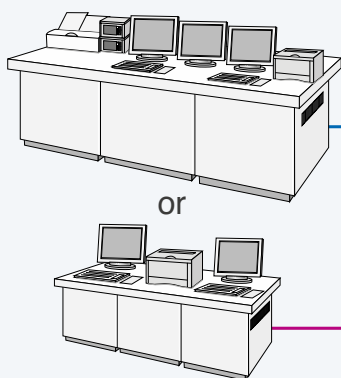
Control system

Every user's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

Building Management

General-purpose Building Control Computer

Connectable to various sized BMS/BAS^{*1}



or

Air Conditioning Central Control

System Controller

Software

UTY-APGX
UTY-PEGX(Optional)

Internet or Public Telephone Line



USB Adaptor^{*2}
(Field supplied)



Remote / Monitoring side

Touch Panel Controller

UTY-DTGY



Central Remote Controller

UTY-DCGY

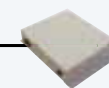


Group Remote Controller

UTY-CGGY



Network Converter
UTY-VGGXZ1



BACnet® Gateway

Software

UTY-ABGX



USB Adaptor^{*2}
(Field supplied)

Network Converter (BMS / LONWORKS®)

UTY-VLGX



Web Monitoring Tool

Software

UTY-AMGX



Internet or Public Telephone Line



(VRF system side)

USB Adaptor^{*2}
(Field supplied)

^{*1} BMS/BAS: Building Management System / Building Automation System

^{*2} USB Adaptor is U10 USB Network Interface of Echelon® Corporation.

The devices above cannot be connected to the S series. (Except System Controller & BACnet® Gateway)

(Monitoring side)

Air Conditioning Individual Control

Wired Remote Controller (Touch panel)

UTY-RNRY



Wired Remote Controller

UTY-RNKYT



Simple Remote Controller

UTY-RSKYT



Simple Remote Controller

UTY-RHKYT

Without operation mode



Wireless Remote Controller

UTY-LNHY



Card-key



External Switch Controller

UTY-TEKX



Service Tool

UTY-ASGX

Software



USB Adaptor*2



System

Outdoor unit

RB unit

Indoor unit

Outdoor unit

Indoor unit

Signal Amplifier

UTY-VSGXZ1

IR Receiver Unit

UTB-TWC

IR Receiver Unit

UTY-LRHYB1

For single split

Network Converter

UTY-VGGXZ1

- Transmission line (VRF Network)
- Module link
- Remote controller line (2 wires)
- Remote controller line (3 wires)
- USB cable
- LONWORKS® Network
- Ethernet
- Signal line(Single split system)
- Group Remote Controller line

Large homes to commercial

AIRSTAGE™ J-II

Compact VRF systems that respond to the needs of each building:

Large homes & apartments:

J-Series gives the flexibility to deliver individual air conditioning control for specific rooms, as well as accommodate the differing needs of common areas and individual room spaces in apartment blocks.



Offices and shops:

J-Series provides the flexibility to manage regular upgrades by matching each shop or office, whilst saving energy and operating economically, and be centrally controlled where required.



A range which allows an unlimited combination of indoor and outdoor units

OUTDOOR UNITS

INDOOR UNITS



J-Series



J-II Series



Compact Cassette



Cassette



Compact Duct



Slim Duct
(Drain Pump internal)



Low Static Pressure Duct /
Duct



High
Static Pressure Duct*



Floor / Ceiling*



Ceiling*



Compact Wall Mounted
(EEV internal / EEV external)



Wall Mounted

High performance, economical and comfortable solutions

Advanced high efficiency technology

Large propeller fan

High performance and low noise released by large propeller and optimisation of angle.

DC fan motor

Miniaturised, low noise, high efficiency, multi-stage DC fan motor is mounted.

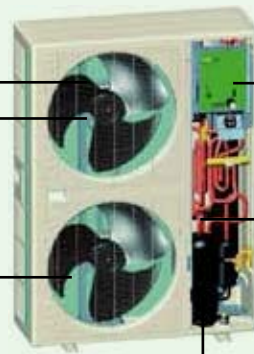
Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

DC twin rotary compressor

Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

All indoor units are supplied with a remote controller

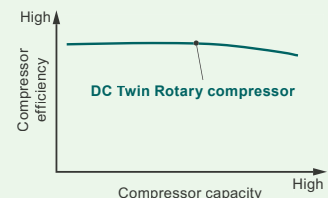


DC inverter control

Efficiency is improved by mounting of new active filter module.

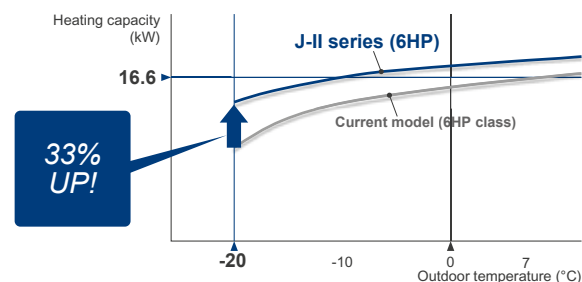
Subcool heat exchanger

Cooling performance is improved by mounting of dual tube heat exchanger.

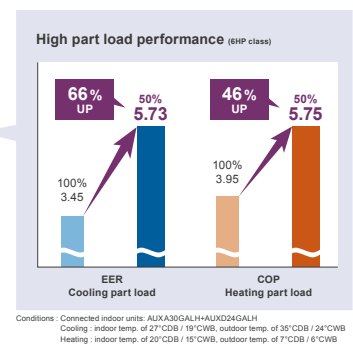
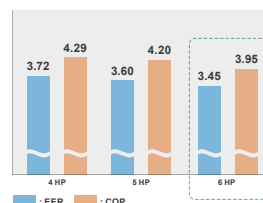


Powerful heating

Heating capacity is improved at low outdoor temperature of our advanced technology.



High EER/COP



More comfort

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.

CONTROLLERS

Central Controller



Central Remote Controller*



Group Remote Controller



Touch Panel Controller*



System Controller* (Software)



Wireless Remote Controller



Simple Remote Controller



Wired Remote Controller



IR Receiver Unit

Individual Controller

Large buildings

AIRSTAGE V-II

All for comfort

Smart and cutting edge design

Extensive lineup from 8HP to 48HP in 2HP increment

Connectable indoor unit capacity ratio up to 150%



High efficiency operating system

EER/COP has been significantly improved by unique inverter technology and refrigerant control technology.



Installation flexibility

Total pipe length of 1,000m and 150m actual pipe length. From small to large buildings, any application can be supported.



Compact design

The outdoor unit size has been significantly reduced by optimising of equipment. This allows for a reduction in the required installation area floor space.



User friendly central control

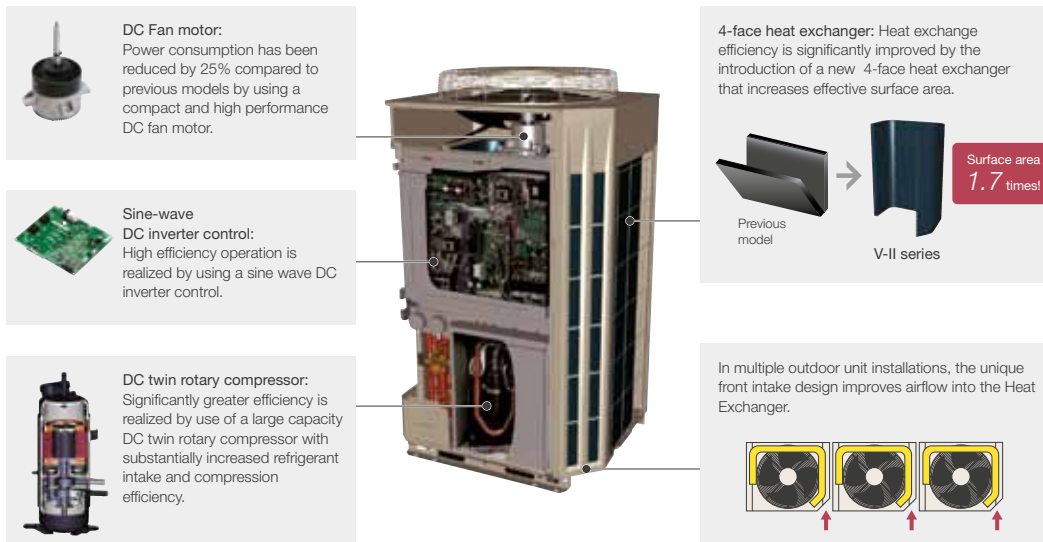
Diverse building air conditioning control functions can be controlled easily by central air conditioning control.



AIRSTAGE™ V-II Multi-features include:

High efficiency operation

Energy saving technology

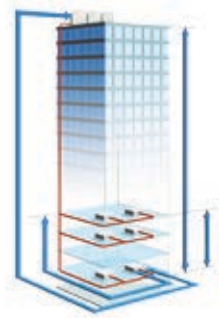


Design versatility

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

**Total pipe length
1,000m**

Note: when there is 1 outdoor unit, max is 700m.

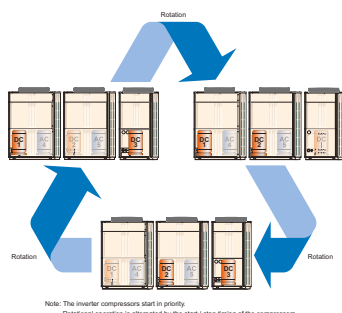


High reliability

Long life-extending operation

Outdoor unit rotational operation.

The compressor starting order is rotated so that the running time is shared.

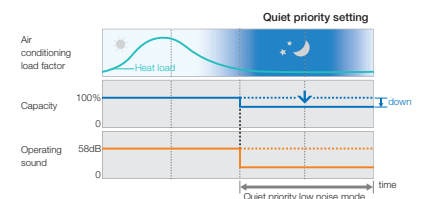


Easy installation

- Easily transported
- Easy piping connection
- Simple signal line connection
- Easy access
- Four way piping connection

Comfort and convenience

- Quiet operation
- Auto changeover function
- Precision refrigerant flow control
- Individual air conditioning control
- Non-stop oil recovery operation



Easy service & maintenance

- Designed for easy service
- Emergency stop function
- Continuous operation during maintenance
- Trouble diagnosis by Service Tool

Large buildings

AIRSTAGE VR-II

Heat Recovery operation allows for simultaneous cooling and heating operation. Fujitsu's new VR-II system provides optimum automatic control by having the ability to change from cooling to heating operation.



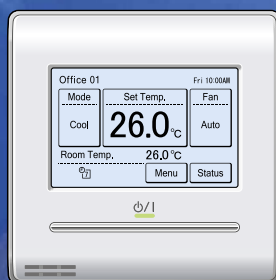
High energy efficiency operation using high efficiency compressor.

The inverter compressor control is highly precise allowing for speed control as low as 0.1Hz steps.



Simple operation large LCD touch panel controller.

New optional wired controller with top class large LCD touch panel display in the industry.



Easy design & installation

The new VR-II systems can be easily designed and installed due to the flexible piping and RB unit options available.



Easy maintenance & trouble shooting

Any errors that occur can be easily diagnosed by checking the operational status of the product via the remote controller.



INDOOR UNITS



4-way
Compact Cassette



4-way
Cassette



Low Static Pressure Duct /
Concealed Floor



Slim Duct /
Slim Concealed Floor



Medium
Static Pressure Duct



High
Static Pressure Duct



Floor / Ceiling



Ceiling



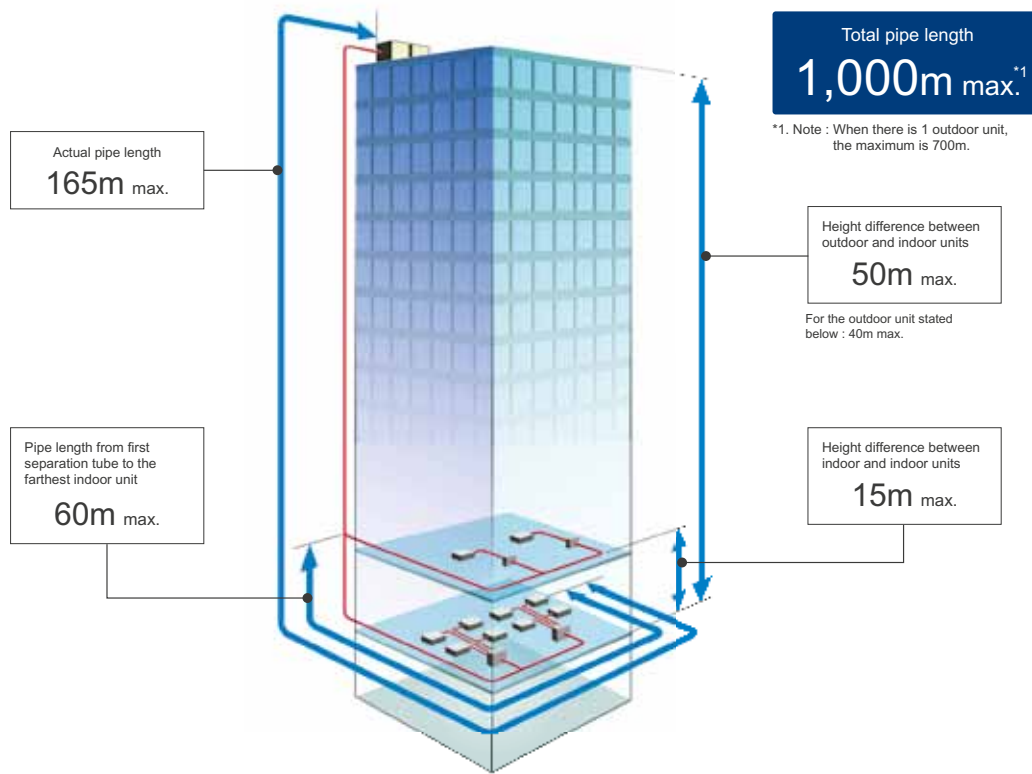
Wall Mounted
(EEV External)



Wall Mounted

Design Flexibility

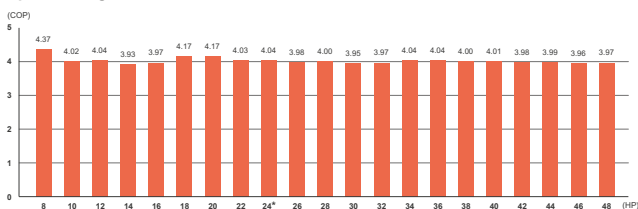
Overall piping length 1,000m



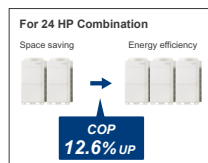
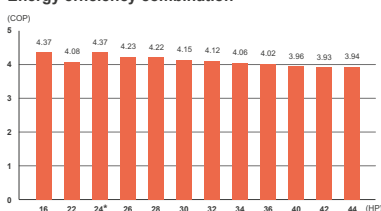
Efficiency in actual operation

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

Space saving combination

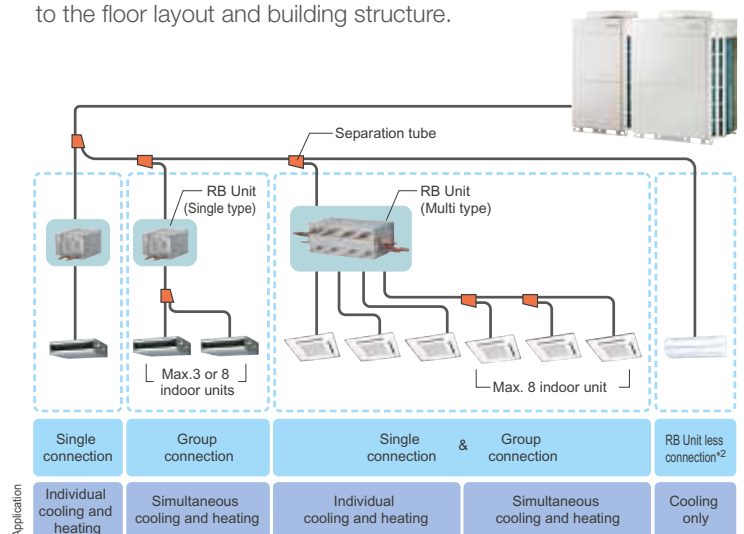


Energy efficiency combination



Flexible piping connection















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



- The RB unit can be freely positioned between the first branch and the indoor unit.
- The maximum height difference between RB units is 15 m.
- *2. RB Unit is not necessary for cooling only use.

Indoor unit lineup



12 Types, 55 Models, Capacity range from 2.2kW to 25.0kW

Capacity range (kW)		2.2	2.8	3.6	4.5
Model code		7	9	12	14
Cassette	4-way Compact Cassette	 AUXB07GALH	 AUXB09GALH	 AUXB12GALH	 AUXB14GALH
	4-way Cassette				
Concealed Duct	Low Static Pressure Duct	 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH
	Slim Duct (Drain pump internal)	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH
	Medium Static Pressure Duct				
	High Static Pressure Duct				
Floor	Floor standing (*Same as Ceiling models)			 AB*A12GATH	 AB*A14GATH
	Concealed Floor mounted (*Same as Low Static Pressure Duct models)	 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH
	Slim Concealed Floor mounted (*Same as Slim Duct models)	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH
Ceiling	Ceiling			 AB*A12GATH	 AB*A14GATH
Wall Mounted	Wall Mounted	 AS*A07GACH	 AS*A09GACH	 AS*A1GACH	 AS*A14GACH
	Wall Mounted (EEV external)	 AS*E07GACH	 AS*E09GACH	 AS*E12GACH	 AS*E14GACH

With this model, connection of EV kit is necessary.

AB* : ABY(FUJITSU), ABH(GENERAL) AS* : ASY(FUJITSU), ASH(GENERAL)

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.

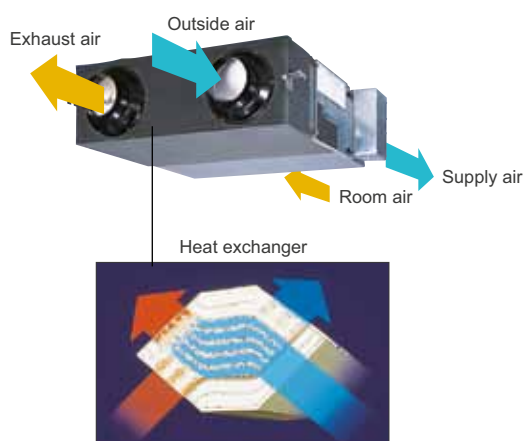
5.6 18	7.1 24	9.0 30	11.2 36	12.5 45	14.0 54	18.0 60	22.4 72	25.0 90
 AUXB18GALH	 AUXB24GALH							
 AUXD18GALH	 AUXD24GALH	 AUXA30GALH	 AUXA36GALH	 AUXA45GALH	 AUXA54GALH			
 ARXB18GALH	 ARXB24GALH	 ARXB30GALH	 ARXB36GALH	 ARXB45GALH				
 ARXD18GALH	 ARXD24GALH							
	 ARXA24GALH	 ARXA30GALH	 ARXA36GALH	 ARXA45GALH				
			 ARXC36GATH	 ARXC45GATH		 ARXC60GATH	 ARXC72GATH	 ARXC90GATH
 AB*A18GATH	 AB*A24GATH							
 ARXB18GALH								
 ARXD18GALH	 ARXD24GALH							
 AB*A18GATH	 AB*A24GATH	 AB*A30GATH	 AB*A36GATH	 AB*A45GATH	 AB*A54GATH			
 AS*A18GACH	 AS*A24GACH	 AS*A30GACH						

Energy Recover Ventilator

Effective heat exchange and simultaneous fresh air ventilation

High efficiency and low noise levels are achieved using a highly efficient heat exchange process.

A comfortable air-conditioned environment is achieved by conveniently choosing between heat-exchange ventilation or normal ventilation setting, according to the needs of the conditioned area.



Heat exchange ventilation

When a room is cooled or heated, the exhausted heating / cooling energy is recovered by heat exchange ventilation.

Normal ventilation

This is used during times when the rooms require no heating or cooling. That is, when there is minimal temperature difference between the indoor and outdoor environments.

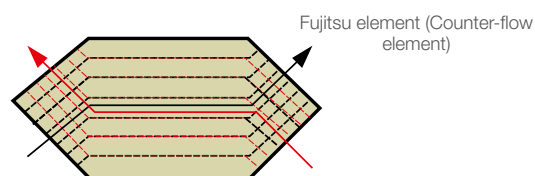
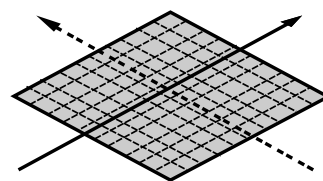
High efficiency

High energy efficiency and ecology.

20%
Energy savings

Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning / heat pump load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

Features of the Heat Exchange Medium



With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged.

Energy Recovery Ventilator unit offers maximum comfort and greater energy savings.



More comfort

Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation of 32 dB or less on high fan operation.

Long heat-exchanger service life

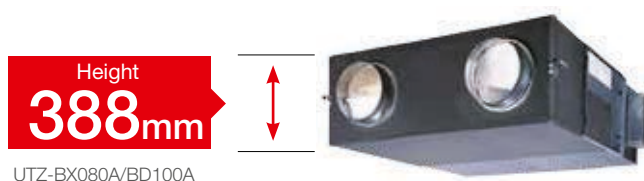
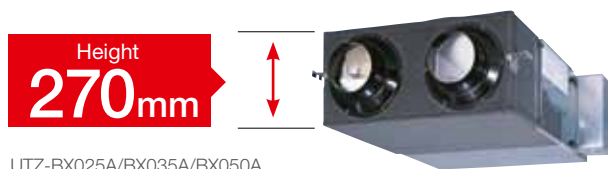
Cleaning reduced due to the special material heat exchanger. The nylon/polyester fibre filter offers high dust retention capacity.

Ducted application

Easy installation and maintenance

Slim shape and easier installation

The counter-flow heat exchange element is used for reduced noise and slimmer, more compact body shape.



Design versatility

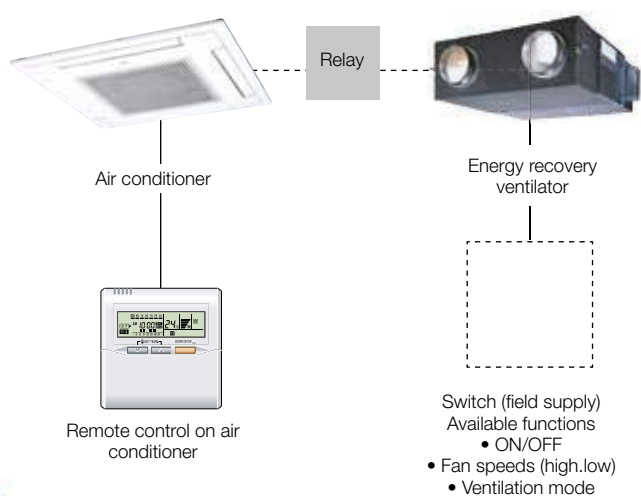
The reverse mountable direct air supply / exhaust system allows each unit to be mounted in reverse, so that only one inspection hole is needed for 2 units.

Interlocked connection to air conditioner*

Operation is performed simultaneously with the air conditioner.

Individual operation of ERV is also possible.

*an additional relay is necessary



Model specifications

Ducted specifications

Type	Model No.	Indoor Unit	Outdoor Unit	Low Profile	Low Profile	Low Profile	Low Profile	Low Profile	Low Profile	Hi Profile	Hi Profile	Hi Profile	Hi Profile	Hi Profile	Hi Profile
		ARTG18LUA	ARTG24LUA	ARTG24LMC	ARTG30LUA	ARTG30LBTU	ARTG36LUA	ARTG36LBTU	ARTG36LUA	ARTG36LUA	ARTG45LUA	ARTG45LUA	ARTG60LUA	ARTG72LUA	ARTG90LUA
		ARTG18LACC	ARTG24LACC	ARTG24LACC	ARTG30LUA	ARTG30LBTU	ARTG36LUA	ARTG36LBTU	ARTG36LUA	ARTG36LUA	ARTG45LUA	ARTG45LUA	ARTG60LUA	ARTG72LUA	ARTG90LUA
Heating Capacities		6.0	8.0	10.0	11.2	11.2	11.2	11.2	11.2	12.1	14.0	16.0	18.0	22.6	28.0
Heating Range		0.9 - 7.5	2.2 - 9.1	2.7 - 11.2	4.0 - 14.0	4.2 - 15.5	4.2 - 15.5	4.2 - 15.5	4.2 - 15.5	5.1 - 14.0	6.0 - 16.0	6.2 - 18.0	6.2 - 20.0	12.0 - 26.5	12.5 - 31.5
Cooling Capacities		5.2	7.1	8.5	10.0	11.5	11.5	11.5	11.5	10.5	12.5	14.0	15.0	20.3	25.0
Cooling Range		0.9 - 5.9	2.9 - 8.0	2.8 - 10.0	3.8 - 11.2	4.0 - 13.3	4.0 - 13.3	4.0 - 13.3	4.0 - 13.3	5.0 - 11.4	5.7 - 14.0	6.2 - 15.2	6.2 - 17.5	10.8 - 23.5	11.2 - 28.0
C.O.P Heat		3.85	3.65	3.73	3.71	3.48	3.48	3.48	3.48	3.67	3.68	3.60	3.50	3.60	3.40
E.E.R Cool		3.59	3.40	3.21	3.21	3.23	3.23	3.23	3.23	3.30	3.10	3.00	3.19	3.25	3.20
Running Current		6.6 (13.1)	9.2 (15.7)	11.2 (17.0)	12.7 (20.0)	16.8 (21.0)	16.8 (21.0)	16.8 (21.0)	16.8 (21.0)	13.9 (20.1)	16.0 (22.5)	18.6 (23.5)	7.3	9.3 (22.8)	12.1 (25.8)
Heat (Max) Amps		6.1 (9.6)	8.8 (15.7)	11.1 (17.0)	13 (19.5)	14.9 (21.0)	14.9 (21.0)	14.9 (21.0)	14.9 (21.0)	13.4 (19.6)	16.9 (22.5)	19.5 (23.5)	6.7	9.3 (22.8)	11.5 (25.8)
Heat (Max) kW		1.56 (2.31)	2.19 (2.75)	2.68 (4.04)	3.02 (4.78)	4.02 (5.02)	4.02 (5.02)	4.02 (5.02)	4.02 (5.02)	3.30 (4.80)	3.80 (5.38)	4.44 (5.63)	5.15 (7.4)	6.27 (10.1)	8.24 (12.5)
Cool (Max) kW		1.45 (1.61)	2.09 (2.40)	2.65 (4.04)	3.11 (4.66)	3.56 (5.02)	3.56 (5.02)	3.56 (5.02)	3.56 (5.02)	3.18 (4.67)	4.03 (5.38)	4.66 (5.63)	4.7 (7.4)	6.25 (10.1)	7.82 (12.5)
Moisture Removal		2.0	2.5	2.5	3.0	3.5	3.5	3.5	3.5	1.5	1.0	1.0	2.0	4.5	6
Fan Speeds		4	4	4	4	4	4	4	4	3	3	3	3	3	3
Air Circulation		261	305	583	514	583	583	583	583	695	900	986	986	1190	1340
Indoor Sound Level		27	25	29	26	28	28	28	28	N/A	N/A	N/A	N/A	N/A	N/A
Outdoor Pressure Level		29	27	32	31	32	32	32	32	36	35	36	36	41	43
Dimensions		30	29	37	36	38	38	38	38	38	39	40	40	44	46
Weights		32	31	42	40	42	42	42	42	41	43	45	45	47	49
		56	54	55	54	55	55	55	55	54	55	56	58	57	59
		198	270	270	270	270	270	270	270	400	425	425	425	450	550
		900	1135	1135	1135	1135	1135	1135	1135	1050	1250	1250	1250	1587	1987
		620	700	700	700	700	700	700	700	500	490	490	490	700	700
		23	38	40	40	40	40	40	40	39	54	54	54	100	110
		620	830	830	1290	1290	1290	1290	1290	1290	1290	1290	1290	1690	1690
		790	900	900	900	900	900	900	900	900	900	900	900	930	930
		290	330	330	330	330	330	330	330	330	330	330	330	765	765
		41	60	61	94	94	94	94	94	86	86	86	104	215	215
		850 X 198	4 X 205 dia	4 X 205 dia	4 X 205 dia	4 X 205 dia	4 X 205 dia	4 X 205 dia	4 X 205 dia	851 X 295	921 X 304	921 X 304	921 X 304	1200 X 350	1200 X 350
		Bulkhead	1015 X 240	1015 X 240	1015 X 240	1015 X 240	1015 X 240	1015 X 240	1015 X 240	862 X 324	1062 X 351	1062 X 351	1062 X 351	1250 X 370	1250 X 470
		0 - 90	30 - 150	30 - 150	30 - 150	30 - 150	30 - 150	30 - 150	30 - 150	60 - 210	60 - 260	60 - 260	60 - 260	50 - 250	50 - 250
		4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5	4 - 1.5
		4	4	4	6	6	6	6	6	6	6	6	2.5	6	6
		1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	1 - 50	3 - 50	3 - 50	3 - 50
		Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
		230	230	230	230	230	230	230	230	230	230	230	415	415	415
		12.7	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	15.88	25.4	25.4
		6.35	6.35	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	12.7	12.7
		5	5	5	5	5	5	5	5	5	5	5	5	5	5
		30	30	50	50	50	50	50	50	50	50	50	75	75	75
		30	30	30	30	30	30	30	30	30	30	30	30	30	30
		15	20	20	20	20	20	20	20	20	20	20	30	20	20
		-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-15 to 46	-5 to 46	-5 to 46
		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24

Under Ceiling Console specifications

Type			CEILING	CEILING	CEILING
Model No.	Indoor Unit		ABTA36LAT	ABTA45LAT	ABTG54LRTA
	Outdoor Unit		AOTA36LCTL	AOTA45LCTL	AOTG54LATT
Cooling Capacities		kW	10.0	11.5	13.8
Cooling Range		kW	3.8 - 11.2	4.0 - 13.3	5.4 - 16.0
Heating Capacities		kW	11.2	14.0	16.0
Heating Range		kW	4.0 - 14.0	4.2 - 15.5	5.8 - 18.0
Star Rating	Cool		1.5	1.5	N/A
	Heat		2.5	2.5	N/A
E.E.R Cool		W/W	3.21	3.23	3.18
C.O.P Heat		W/W	3.71	3.41	3.43
Running Current	Cool	Amps	13.0 (19 Max)	14.9 (20.5 Max)	6.2 (9.9 Max)
	Heat	Amps	12.7 (19.5 Max)	17.2 (20.5 Max)	6.6 (9.9 Max)
Input Power	Cool	kW	3.11 (4.54 Max)	3.56 (4.90 Max)	4.34 (6.72 Max)
	Heat	kW	3.02 (4.66 Max)	4.11 (4.90 Max)	4.67 (6.72 Max)
Moisture Removal		L/Hr	3	4	5
Fan Speeds			4	4	4
Air Circulation		Max	528	583	639
Indoor Sound	Quiet	DbA at 1m	32	34	38
	Low	DbA at 1m	37	39	42
Pressure Level	Med	DbA at 1m	43	45	48
	High	DbA at 1m	47	49	51
Outdoor Sound Pressure Level		DbA at 1m	54	55	56
Dimensions and Weights	I.U	Height	mm	240	240
		Width	mm	1,660	1,660
		Depth	mm	700	700
		Net Weight	kg	46	48
	O.U	Height	mm	1,290	1,290
		Width	mm	900	900
		Depth	mm	330	330
		Net Weight	kg	86	104
Interconnect cables - size		Qty - mm2	4 - 1.5	4 - 1.5	4 - 1.5
Recommended Min. Power Cable		mm2	6	6	2.5
Phase - Frequency		Ph - Hz	1 - 50	1 - 50	3 - 50
Power Supply		Volts	230	230	415
Connection Pipe Sizes	Gas	mm	15.88	15.88	15.88
	Liquid	mm	9.52	9.52	9.52
Minimum Pipe Length		Metre	5	5	5
Maximum Pipe Length		Metre	50	50	75
Maximum Pipe Height		Metre	30	30	30
Pre Charged Length		Metre	20	20	30
Condensate Pump Lift (Optional)		mm	300	300	300
Outdoor Operating Temp	Cool	Degree C	-15 to 46	-15 to 46	-15 to 46
	Heat	Degree C	-15 to 24	-15 to 24	-15 to 24

Cassette specifications

			INVERTER	INVERTER	Inverter	Inverter	Inverter	Inverter	
Model No.	Indoor Unit		AUTG18LVLA	AUTG24LVLA	AUTA30LBLU	AUTA36LCUJ	AUTA45LCUJ	AUTG54LRLA	
	Outdoor Unit		AOTG18LACC	AOTG24LATC	AOTA30LGTL	AOTA36LCTL	AOTA45LCTL	AOTG54LATT	
Cooling Capacities		kW	5.2	7.1	8.5	10.0	12.5	14.0	
Cooling Range		kW	0.9 - 5.9	2.9 - 8.0	2.8 - 10.0	3.5 - 11.2	4.0 - 14.0	5.4 - 16.0	
Heating Capacities		kW	6.0	8.0	10.0	11.2	14.0	16.0	
Heating Range		kW	0.9 - 7.5	2.9 - 9.1	2.7 - 11.2	4.0 - 14.0	4.2 - 16.2	5.8 - 18.0	
Star Rating	Cool		2.0	2.0	2.0	2.0	1.5	N/A	
	Heat		2.5	2.5	2.5	2.5	2.5	N/A	
E.E.R Cool		W/W	3.33	3.29	3.31	3.4	3.21	3.21	
C.O.P Heat		W/W	3.61	3.61	3.61	3.76	3.66	3.61	
Running Current	Cool	Amps	6.6 (9.6 Max)	9.1 (15.7 Max)	10.8 (17.0 Max)	12.3 (19.0 Max)	16.3 (20.5 Max)	6.2 (9.9 Max)	
	Heat	Amps	7.0 (13.1 Max)	9.3 (15.7 Max)	11.6 (17.0 Max)	12.5 (19.0 Max)	16.1 (20.5 Max)	6.3 (9.9 Max)	
Input Power (Max)	Cool	kW	1.56 (1.99 Max)	2.16 (2.47 Max)	2.57 (4.04 Max)	2.94 (4.54 Max)	3.89 (4.9 Max)	4.36 (6.72 Max)	
	Heat	kW	1.66 (2.52 Max)	2.21 (2.8 Max)	2.77 (4.04 Max)	2.98 (4.66 Max)	3.83 (4.9 Max)	4.43 (6.72 Max)	
Moisture Removal		L/Hr	2.2	2.7	2.5	3.0	4.5	5.0	
Fan Speeds			4	4	4	4	4	4	
Air Circulation		I/s	222	258	444	500	528	556	
Indoor Sound	Quiet	DbA at 1m	30	33	32	33	36	37	
	Low	DbA at 1m	34	40	36	36	40	41	
Pressure Level	Med	DbA at 1m	38	45	38	39	42	43	
	High	DbA at 1m	43	49	40	44	46	47	
Outdoor Sound Pressure Level		DbA at 1m	50	53	55	54	55	56	
Dimensions and Weights	I.U	Height	mm	245	245	288	288	288	288
		Width	mm	570	570	840	840	840	840
		Depth	mm	570	570	840	840	840	840
		Net Weight	kg	15	16	26	27	27	27
	O.U	Height	mm	620	830	830	1,290	1,290	1,290
		Width	mm	790	900	900	900	900	900
		Depth	mm	290	330	330	330	330	330
		Net Weight	kg	41	60	61	86	86	104
Outdoor Operating Temp	Cool	Degree C	-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heat	Degree C	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	

Inverter Multi Room Systems specifications

OUTDOOR UNITS

Type			Inverter	Inverter	
Model No. Outdoor Unit		Outdoor Unit	AOTG24LAT4	AOTG30LAT4	
Reverse Cycle			Yes	Yes	
Cooling Capacities		kW	6.8 (8.5 Max)	8.0 (10.1 Max)	
Heating Capacities		kW	8.0 (9.2 Max)	9.6 (12.0 Max)	
E.E.R Cool		W/W	3.5	3.6	
C.O.P Heat		W/W	4.0	4.0	
Running Current	Cool	Amps	8.1 (10.9 Max)	9.3 (15.0 Max)	
	Heat	Amps	8.4 (12.1 Max)	10.1 (15.0 Max)	
Input Power	Cool	kW	1.94 (2.6 Max)	2.22 (3.56 Max)	
	Heat	kW	2.0 (2.87 Max)	2.4 (3.58 Max)	
Outdoor Sound Pressure Level		DbA at 1m	49	51	
Dimensions and Weights	O.U	Height	mm	700	830
		Width	mm	900	900
		Depth	mm	330	330
		Net Weight	kg	55	68
Compressor Type			Twin Rotary	Twin Rotary	
Interconnect Cables - Size		Qty - mm2	4 - 2.5	4 - 2.5	
Recommended Min. Power Cable		mm2	4	4	
Phase - Frequency		Ph - Hz	1 - 50	1 - 50	
Power Supply Attachment			Outdoor	Outdoor	
Connection Pipe Sizes	Gas	mm	2X 9.52 1X 12.7	2X 9.52 2x 12.7	
	Liquid	mm	3X 6.35	4X 6.35	
Minimum Pipe Length		Metre	5	5	
Maximum Pipe Length (Per Indoor)		Metre	25	25	
Maximum Pipe Length (Total)		Metre	50	70	
Maximum Pipe Height		Metre	10	10	
Pre Charge Length		Metre	30	50	
Outdoor Operating Temperature	Cool	Degree C	0 to 46	0 to 46	
	Heat	Degree C	-15 to 24	-10 to 24	

HI-WALL INDOOR UNITS

FLOOR / CEILING INDOOR UNITS

Type			HI WALL	HI WALL	HI WALL	HI WALL	HI WALL	UNIVERSAL
Model No.	Indoor Unit		ASTG07LVCA [M]	ASTG09LVCA [M]	ASTG12LVCA [M]	ASTG18LFCA [M]	ASTG24LFCA [M]	ABTG18LVTA [M]
Capacity Class		kW	2.0	2.5	3.5	5.0	7.0	5.0
Fan Speeds			4	4	4	4	4	4
Air Circulation	High	l/s	178	178	194	250	311	217
Indoor Sound	Quiet	DbA at 1m	22	23	24	25	33	32 UC/35 FC
	Low	DbA at 1m	32	32	33	33	37	34 UC/37 FC
Pressure Level	Medium	DbA at 1m	33	33	35	37	42	38 UC/41 FC
	High	DbA at 1m	36	36	38	42	48	41 UC/44 FC
Dimensions and Weights	I.U	Height	mm	293	293	320	320	199
		Width	mm	790	790	998	998	990
		Depth	mm	225	225	238	238	655
		Net Weight	kg	9.5	9.5	14	14	27
Interconnect Cables - Size		Qty - mm2	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5
Power Supply Attachment			To Outdoor Unit	To Outdoor Unit	To Outdoor Unit	To Outdoor Unit	To Outdoor Unit	To Outdoor Unit
Connection	Gas	mm	9.52	9.52	9.52	12.7	15.8	12.7
Pipe Sizes	Liquid	mm	6.35	6.35	6.35	6.35	6.35	6.35

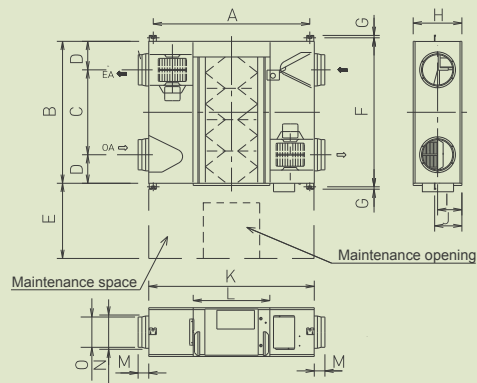
BULKHEAD INDOOR UNITS

COMPACT CASSETTE INDOOR UNITS

Type			BULKHEAD	BULKHEAD	BULKHEAD	CASSETTE	CASSETTE	CASSETTE
Model No.		Indoor Unit	ARTG09LLTA [M]	ARTG12LLTA [M]	ARTG18LLTA [M]	AUTG09LVLA [M]	AUTG12LVLA [M]	AUTG18LVLA [M]
Capacity Class		kW	2.5	3.5	5.0	2.5	3.5	5.0
Fan Speeds			4	4	4	4	4	4
Air Circulation	High	l/s	167	181	261	150	169	208
	Quiet	DbA at 1m	24	24	29	27	28	30
Indoor Sound	Low	DbA at 1m	25	27	31	29	31	37
	Medium	DbA at 1m	26	28	32	32	33	40
Pressure Level	High	DbA at 1m	28	29	33	34	37	44
	Height	mm	198	198	198	245	245	245
Dimensions and Weights	I.U	Width	mm	700	700	900	570	570
		Depth	mm	620	620	620	570	570
		Net Weight	kg	19	19	23	15	15
		Interconnect Cables - Size		Qty - mm2	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5
Power Supply Attachment			To Outdoor Unit	To Outdoor Unit	To Outdoor Unit	To Outdoor Unit	To Outdoor Unit	To Outdoor Unit
Connection Pipe Sizes	Gas	mm	9.52	9.52	12.7	9.52	9.52	12.7
	Liquid	mm	6.35	6.35	6.35	6.35	6.35	6.35

Energy Recovery Ventilator specifications

	UTZ-BX025A	UTZ-BX035A	UTZ-BX050A	UTZ-BX080A	UTZ-BD0100A
A	810	810	890	1,250	1,250
B	599	804	904	884	1,134
C	315	480	500	428	678
D	142	162	202	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	270	270	388	388
I	135	145	145	194	194
J	159	159	159	218	218
K	882	882	962	1,322	1,322
L	414	414	414	612	612
M	95	95	107	85	85
N	219	219	246	258	258
O	144	144	194	242	242



Rated flow rate				69 / 69 / 52	97 / 97 / 66	138 / 138 /122	222 / 222 / 175	277 / 277 / 194	
				250m³/hr	350m³/hr	500m³/hr	800 m³/hr	1,000 m³/hr	
Model No.				UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B	
Power source				220-240V, 50Hz					
L/S	Heat Exchange Ventilation	Input power	(Extra high) High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
		Air flow rate	(Extra high) High/Low	l/s m³/hr	69 / 69 / 52 250 / 250 / 190	97 / 97 / 66 350 / 350 / 240	138 / 138 / 122 500 / 500 / 440	222 / 222 / 175 800 / 800 / 630	277 / 277 / 194 1,000 / 1,000 / 700
		External static pressure	(Extra high) High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
		Temperature Exchange Efficiency	(Extra high) High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
		Temperature Exchange Efficiency Cooling	(Extra high) High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
		Heat Exchange Efficiency Heat Pump	(Extra high) High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76
		Sound Pressure Level	(Extra high) High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37 / 34.5	38.5 / 37.5 / 34.5
L/S	Normal Ventilation	Input power	(Extra high) High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
		Air flow rate	(Extra high) High/Low	l/s m³/hr	69 / 69 / 52 250 / 250 / 190	97 / 97 / 66 350 / 350 / 240	138 / 138 / 122 500 / 500 / 440	222 / 222 / 175 800 / 800 / 630	277 / 277 / 194 1,000 / 1,000 / 700
		External static pressure	(Extra high) High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
		Sound Pressure Level	(Extra high) High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	38.5 / 38 / 32.5	37.5 / 37 / 34.5	40.5 / 39.5 / 36.5
		Dimensions		W x D x H	mm	882 x 599 x 270	1,050 x 804 x 317	1,090 x 904 x 317	1,322 x 884 x 388
Weight			Kg	29	49	57	71	83	
Outlet duct diameter			mm	150	150	200	250	250	
Operation range			°C	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40	
Maximum humidity			%	85	85	85	85	85	

*The noise level must be measured 1.5m below the centre of the unit.

Explanation of terms

Capacity	The higher the capacity, the more area and faster the heat pump will heat (and cool) the room.
COP	Stands for "Coefficient of Performance", or (more simply!) - the relationship of energy used and heat delivered. For example - a COP of 3.61 means you will get 3.61kW of heat for every 1kW of energy used.
EER	Stands for "Energy Efficiency Ratio", or (more simply!) - the relationship of energy used and cooling effect delivered.
ENERGY STAR® Rating	Your quick guide to energy efficiency - more stars means more efficient.
Indoor Sound	Measured in decibels, this is the sound level of your indoor unit at selected fan speeds. For example 20-30 decibels is less than the sound of a human whisper.
Heating Range	With our Kiwi winter, your heat pump needs to be able to supply heat indoors, even when its -15°C outside!

Products depicted in this brochure contain high operating pressure R410a refrigerant. It is illegal to vent that refrigerant to the atmosphere. Only persons qualified and experienced in the installation, service and repair of these products are authorised to undertake such work.

Fujitsu General Accredited Installers have shown they have the necessary equipment and have accepted responsibility for their installations and the requirements of any statutes or laws.

Due to ongoing Research and Development specifications and designs are subject to improvement without notice therefore relevant manuals must be consulted before any action is taken to install or service these products.

Heating/Cooling capacities and run current tests are based on the requirements of AS/NZS3823, that standard tests at the temperature below.

COOLING: Indoor Temp: 27°C DB / 19°C WB
Outdoor Temp: 35°C DB

HEATING: Indoor Temp: 20°C DB
Outdoor Temp: 7°C DB / 6°C WB
























As actual temperature ranges in New Zealand vary considerably only competent people should provide advice as to size and placement of units.

Recommended cable sizes are based in AS/NZS3000 and AS/NZS3008.

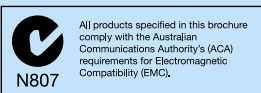
Fujitsu General New Zealand Ltd warrants the equipment against any defects in materials and factory workmanship for a period of five years from the date of installation, or for 6 years if installed by an Accredited Installer.

This warranty does not cover defects or failures which are attributable to; incorrect or improper installation; environmental damage; airflow restriction; inadequate electrical supply; getting access to the product.

Explanation of features

 Moisture Removal The computer effectively dehumidifies the air.	 Automatic Air Flow Adjustment The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.	 Program Timer This digital timer allows selection of one of four options. ON, OFF, ON → OFF, or OFF → ON.	 Washable Panel
 Up/Down Swing Louvers The up/down louvers automatically swing to up and down.	 Auto restart In the event of a temporary power failure, the heat pump will automatically restart in the same operating mode as before, once the power supply is restored.	 ON-OFF Timer ON-OFF timer can be set to operate once.	 Control Port External inputs and outputs contained within the product allow on/off control, fresh air interlock connection and heater bank element connection.
 Right/Left Swing Louvers The right/left louvers automatically swing in either direction.	 Auto-Changover When selected, the unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.	 Weekly timer Different on-off times can be set for each day.	 Wall (wired) controller - Optional Smart, easy-to-use wall (wired) controller. 7-day timer for 'set and forget'.
 Double Swing Automatic Complex swing action of louvers enables automatically to swing both horizontal and vertical directions.	 Connectable Distributing Duct Conditioned air can be distributed by means of a distribution duct.	 Weekly + setback timer Weekly + setback timer can set temperature for two time spans and for each day of the week.	 Cobalt Blue Heat Exchanger Outdoor unit fins are coated with a blue corrosion resistant material to enhance durability and extend performance life of your heat pump.
 Automatic Louvers The position of the louvers is set automatically to match the operating mode. It is also possible to adjust the flaps using the remote control.	 Sleep Timer The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.	 Connectable Fresh Air Duct Duct connection port hole opening. Fresh air can be introduced through this opening.	 The ENERGY STAR® is awarded to the top 25% of New Zealand's most efficient appliances. Fujitsu has more ENERGY STAR heat pumps than any other brand
 Auto Shut Louvers The auto shut louvers close or open automatically when the unit stops or starts.		 Fresh air intake Fresh air can be taken in by a fan which can be connected using UTD-ECS5A (optional parts).	 Cooling Heating

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