

Refrigerant
R410A
INVERTER

NEW SERIES

AIRSTAGE™ V-II

Variable Refrigerant Flow System

Multi Air Conditioning System for Buildings





AIRSTAGETM V-II

Variable Refrigerant Flow System

Multi Air Conditioning System for Buildings

INVERTER HEAT PUMP TYPE

**Total pipe length
up to 1,000m**

Actual pipe length
150m max.

Total pipe length
1,000m max.

Height difference
between outdoor and
indoor units
50m max.

For the outdoor
unit stated
below : 40m max.

Height difference
between indoor
and indoor units
15m max.

Pipe length from first
separation tube to the
farthest indoor unit
60m max.

**External static pressure
up to 80Pa**

**80Pa
max.**

Outdoor
unit

Building outside wall

Newly designed compact outdoor unit

Smart and cutting edge design

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

Connectable indoor unit capacity ratio up to 150%

8, 10, 12HP



DIMENSIONS: H 1,690 X W 930 X D 765 (mm)

14, 16HP



DIMENSIONS: H 1,690 X W 1,240 X D 765 (mm)

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HIGH EFFICIENCY OPERATION

High efficiency

Efficiency has significantly improved by the latest innovative technology.



Innovative Technology

NEW Sine wave DC inverter control



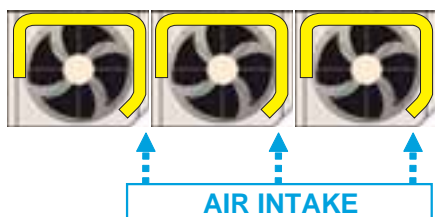
Use of sine wave DC inverter control allows high efficiency and energy saving.

NEW DC twin rotary compressor



High performance DC twin rotary compressor maximizes efficiency from low speed to high speed operation.

NEW Front intake port (omnidirectional intake)

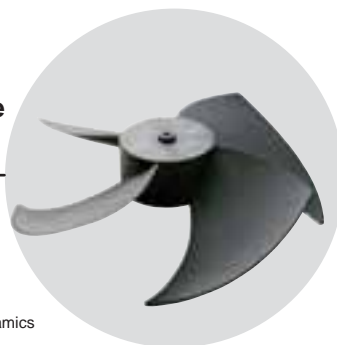


Front intake port is designed to prevent decreasing airflow when multiple outdoor units are installed.

NEW Powerful large propeller fan

A newly designed by CFD* analysis fan achieves high performance and low noise operation.

*CFD=Computational Fluid Dynamics

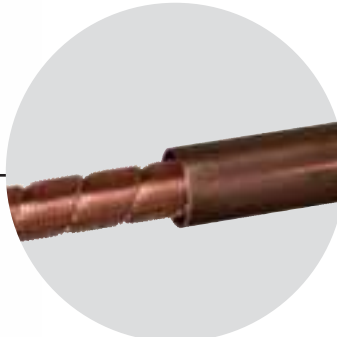


NEW DC fan motor



High performance and high efficiency compact DC fan motor.

NEW Subcool heat exchanger



Heat exchanger efficiency is increased up to approx.100% by use of heat exchanger tube with high heat transfer dual coil.

NEW Heat exchanger



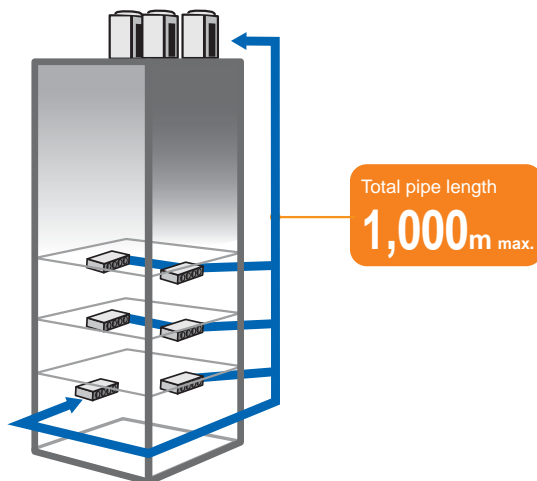
This new coil design allows for an increase of approximately 1.7 times heat exchanger volume when compared with the previous model.

DESIGN VERSATILITY

Space saving

<p>Previous model 10HP</p>  <p>1,300</p>	<p>→</p> <p>V-II Series 10 HP</p>  <p>930</p> <p>28% reduction</p>
<p>Previous model 16HP (8HP X 2)</p>  <p>2,600</p>	<p>→</p> <p>V-II Series 16 HP</p>  <p>1,240</p> <p>52% reduction</p>

Overall piping length 1,000m



High static pressure of 80Pa

Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa. This is approximately 2.6 times greater than the previous model. Installation on each floor and installation of balcony, etc. is possible.





80Pa max.

Selectable space saving/High COP combination

Outdoor unit combination is selectable from two concepts.

■ Example : 30HP system

<p>Space saving priority</p> <p>14HP + 16HP</p>  <p>$0.95\text{m}^2 \times 2 = 1.90\text{m}^2$</p> <p>System which combines large capacity outdoor units.</p>	<p>High COP priority</p> <p>14HP + 8HP + 8HP</p>  <p>$0.95\text{m}^2 + 0.71\text{m}^2 \times 2 = 2.37\text{m}^2$</p> <p>System which combines high efficiency compact outdoor units.</p>
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EASY INSTALLATION

Automatic address setting

The address of each indoor unit can be automatically set by button switch of outdoor unit.

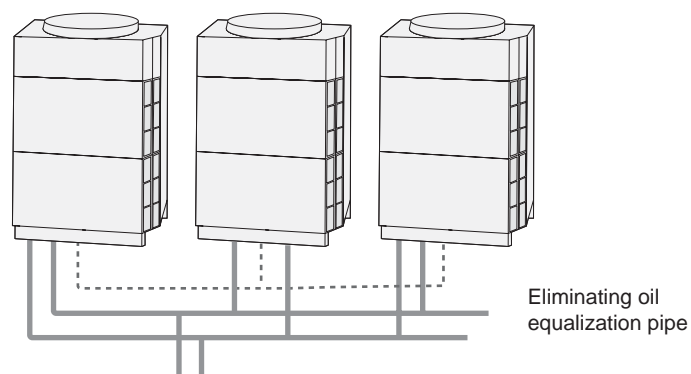
Light weight outdoor unit

Compact and light weight design allows for easy installation and transportation.

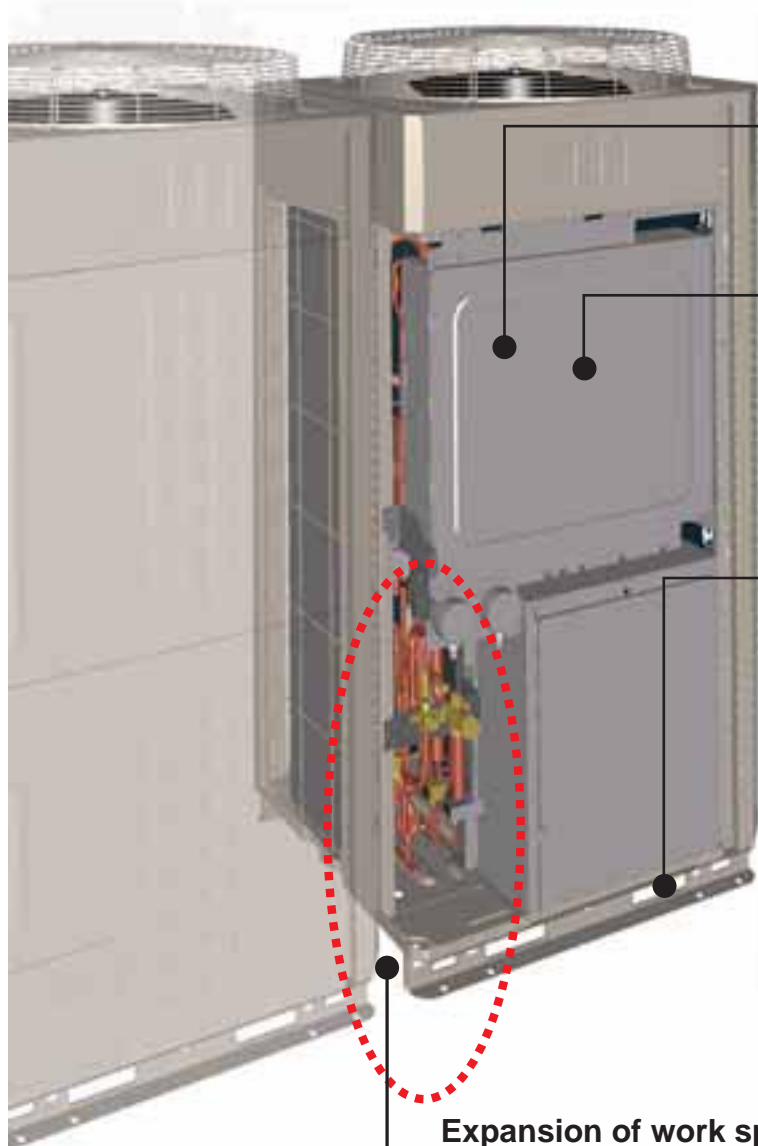
20% weight reduction
(than previous model)

Note: In the case of 14HP

Easy piping connection



Design for easy installation, service and maintenance



Integration of electric parts

Setting and maintenance are carried out easily as all electrical components are allocated in one box at workable position.

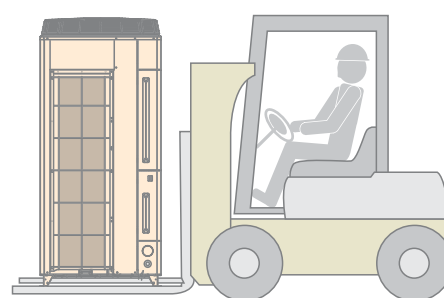
7-segment LED display



Easy-to-read 7-segment LED display.

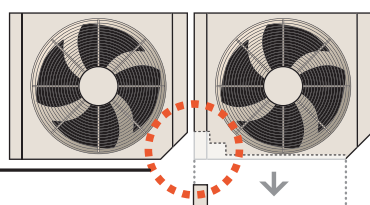
Easily transported

Easy transport by slot hole for forklift and crane.



Expansion of work space

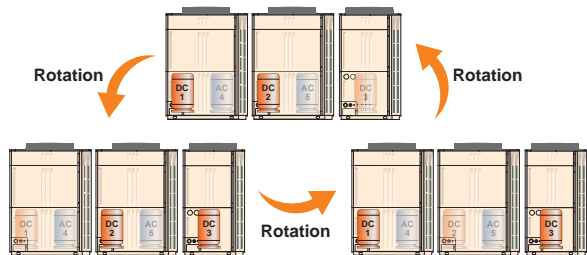
By adopting a front panel that can be removed, the work space for installation and service has been significantly expanded by this new design.



HIGH RELIABILITY

Outdoor unit operation rotation

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



Backup operation



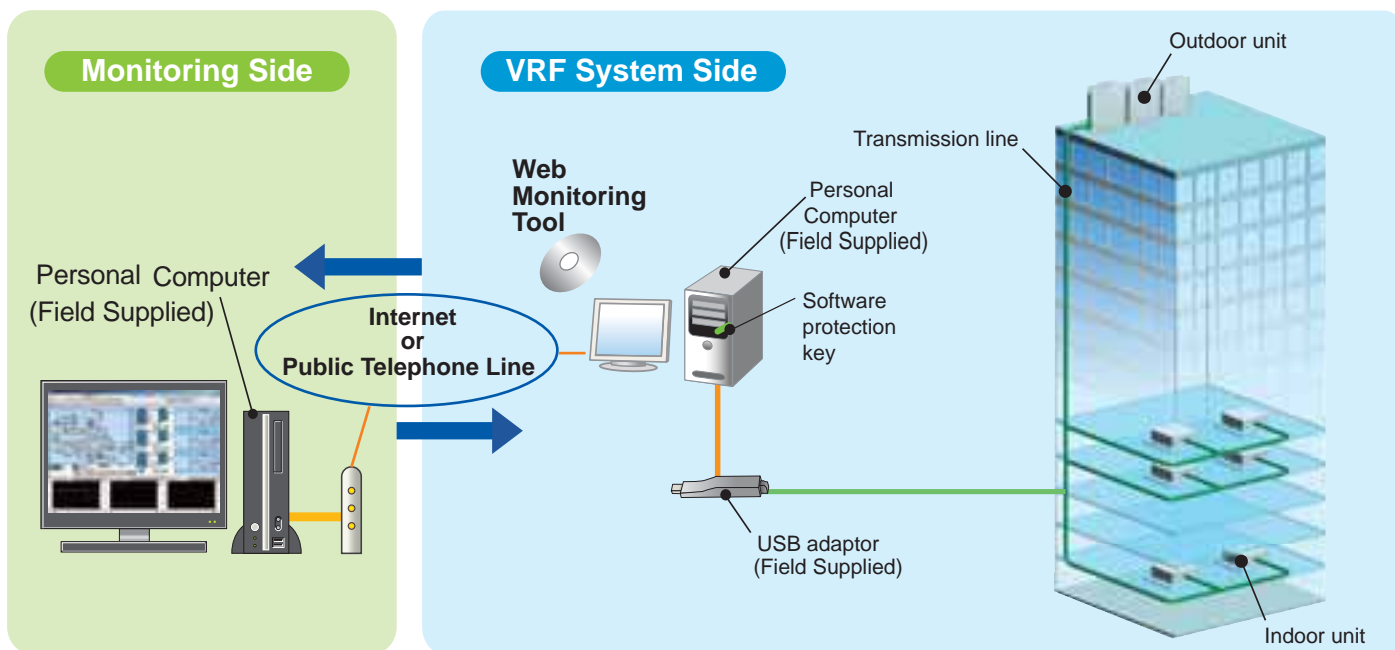
If one compressor malfunctions, it will not affect the operation of the remaining outdoor units.



If one of outdoor unit fails, the remaining outdoor units will continue operating as emergency operation.

Remote monitoring system

The Web Monitoring system allows you view system operation at all times over the internet ensuring trouble free operation.



IMPROVED COMFORT

Quiet operation

Outdoor unit



Low noise mode

Automatically switched to quiet operation mode from outdoor unit by timer setting.

Indoor unit



Low noise indoor unit line up



Noise reduction of compressor

Compressor noise has been significantly reduced by shielding the compressor compartment.



Compressor compartment

CONTROLS SYSTEM

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

Central Control

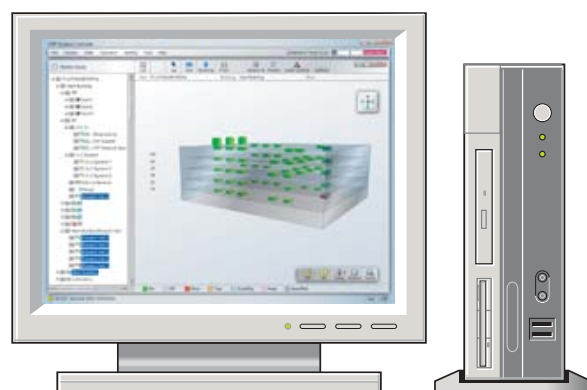
1 System Controller

UTY-APGX

- Up to a maximum of 4 network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- Remote access for monitoring and control
- 3D graphical display interface
- User friendly operation
- Central building monitoring and control
- Central control (locked individual controller function)
- Power proportional distribution
- Annual schedule control
- Error display
- Set temperature limitation

Max.
controllable
indoor units

1600



2 Touch Panel Controller

UTY-DTG*

- Up to 400 indoor units can be controlled.
- Stylish design
- 7.5 inch color TFT-LCD touch panel screen
- Central control (locked individual controller function)
- Annual schedule control
- Easy operation
- Up-to-date status display

Max.
controllable
indoor units

400



G* : GY(FUJITSU)
GG(GENERAL)

3 Group Remote Controller

UTY-CGG*

Centrally controls up to 8 remote controller groups
(Up to 96 indoor units)



* For connecting to VRF System, network converter is necessary. Also, the maximum of 4 units of group remote controllers can be connected to this converter.

G* : GY(FUJITSU)
GG(GENERAL)

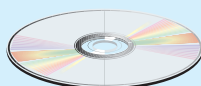
Interface for Building Management System

Adopting BACnet®, the open network with high versatility renowned worldwide, network can connect VRF system and BMS/BAS.

4 BACnet® Gateway

Software

UTY-ABGX
(Future release)



CD-ROM(Software)



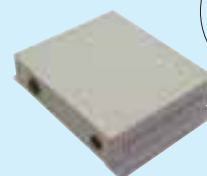
Software Protection Key

Max.
Connectable
Indoor Units
1600

BMS of LONWORKS® can be connected to VRF system by use of network converter.

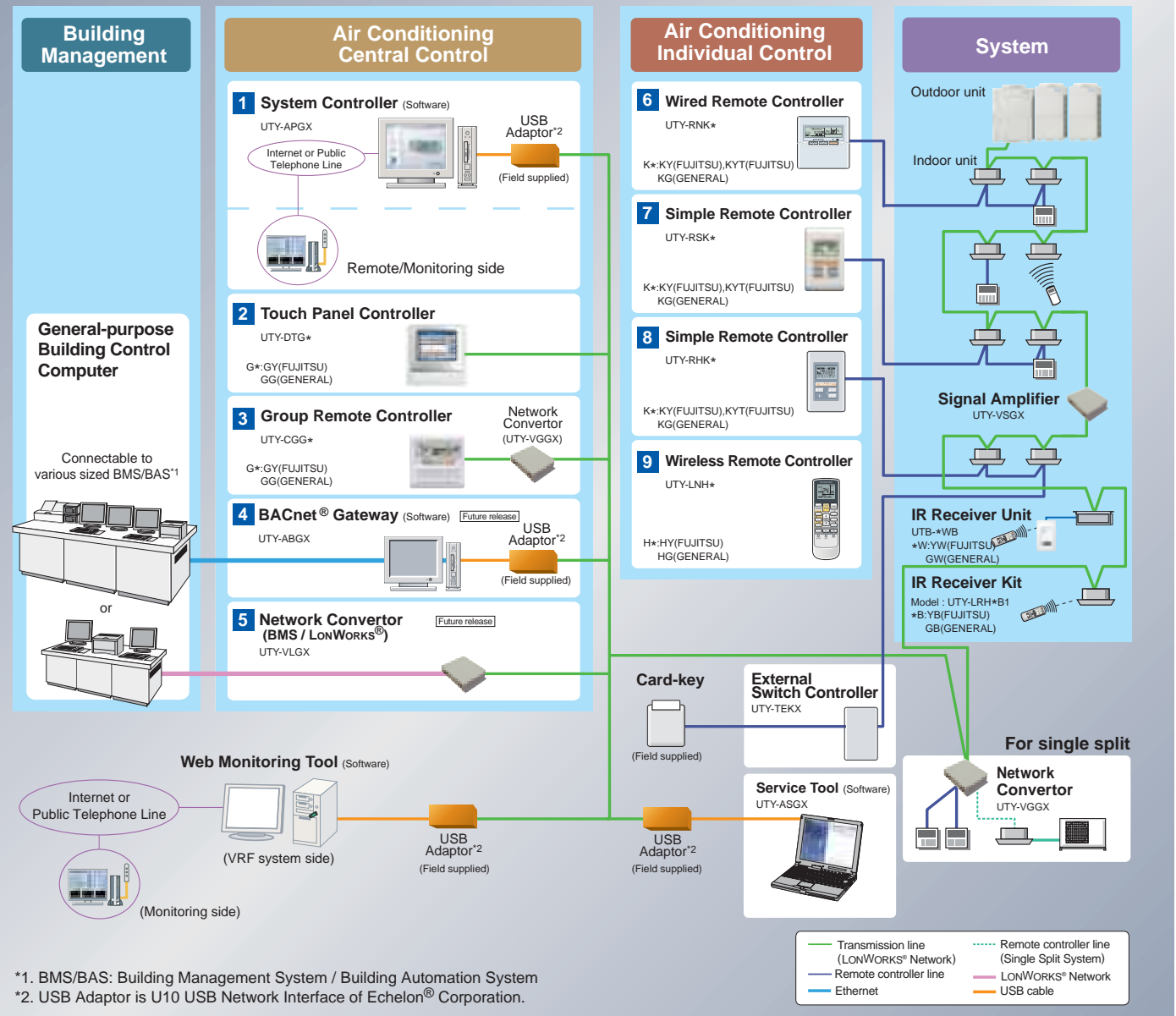
5 Network Converter for LONWORKS®

UTY-VLGX
(Future release)



Max.
Connectable
Indoor Units
128

System Diagram



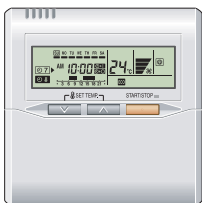
The device above cannot be connected to the S or V series. (Exempt System Controller)

Individual Control

6 Wired Remote Controller

UTY-RNK*

Operates the air conditioning system for a week according to the plan by built-in weekly timer.



K*: KY(FUJITSU),KT(FUJITSU)
KG(GENERAL)

7 Wireless Remote Controller

UTY-LNH*

It can be used at your hand. 4 types of timers are available.



H*: HY(FUJITSU)
HG(GENERAL)

8 Simple Remote Controller

UTY-RSK*

Designed for easy operation.



K*: KY(FUJITSU),KYT(FUJITSU)
KG(GENERAL)

9 Simple Remote Controller

UTY-RHK*

without master control
Designed for easy operation without master control.



K*: KY(FUJITSU),KYT(FUJITSU)
KG(GENERAL)

10 External Switch Controller

UTY-TEKX*

Air conditioner operation can be controlled by external equipment.






























*Card-key and other sensor switches are available as a field supplied parts.



INDOOR UNIT LINEUP














11 Types, 49 Models, Capacity range from 2.2kW to 25.0kW

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

Rating Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1
Model code	7	9	12	14	18	24
Compact Cassette	 AUXB07LALH	 AUXB09LALH	 AUXB12LALH	 AUXB14LALH	 AUXB18LALH	 AUXB24LALH
Cassette					 AUXD18LALH	 AUXD24LALH
Compact Duct	 ARXB07LALH	 ARXB09LALH	 ARXB12LALH	 ARXB14LALH	 ARXB18LALH	
Low Static Pressure Duct						 ARXB24LATH
Duct						 ARXA24LATH
High Static Pressure Duct						
Floor / Ceiling			 AB*A12LATH	 AB*A14LATH	 AB*A18LATH	 AB*A24LATH
Ceiling						
Compact Wall Mounted (EEV internal)	 AS*A07LACH	 AS*A09LACH	 AS*A12LACH	 AS*A14LACH		
Compact Wall Mounted (EEV external)	 AS*E07LALH	 AS*E09LALH	 AS*E12LALH	 AS*E14LALH		
	With this model connection of EV kit is necessary.					
Wall Mounted					 AS*A18LATH	 AS*A24LATH

The indoor units above cannot be connected to the S or V Series.

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

9.0	11.2	12.5	14.0	18.0	22.4	25.0
30	36	45	54	60	72	90
						
AUXA30LALH	AUXA36LALH	AUXA45LALH	AUXA54LALH			
						
ARXB30LATH	ARXB36LATH	ARXB45LATH				
						
ARXA30LATH	ARXA36LATH	ARXA45LATH				
						
	ARXC36LATH	ARXC45LATH		ARXC60LATH	ARXC72LATH	ARXC90LATH
						
AB*A30LATH	AB*A36LATH	AB*A45LATH	AB*A54LATH			
						
AS*A30LATH						

OUTDOOR UNIT LINEUP

21 system models, ranging from 8HP to 48HP in 2HP increment (22.4 - 135.0kW)

Space saving combination (Space saving priority)



HEAT PUMP TYPE

Rating Capacity range (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Outdoor Unit 1 (HP)	8	10	12	14	16	10	12	12	12	14	16	16	16	12	12	14	16	16	16	16	16
Outdoor Unit 2 (HP)	-	-	-	-	-	8	8	10	12	12	12	14	16	12	12	12	12	14	16	16	16
Outdoor Unit 3 (HP)	-	-	-	-	-	-	-	-	-	-	-	-	-	10	12	12	12	12	12	14	16
Maximum Connectable Indoor Unit	15	16	17	21	24	32	32	32	35	39	42	45	48	48	48	48	48	48	48	48	48

Energy efficiency combination (High COP priority)



HEAT PUMP TYPE

Rating Capacity range (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Outdoor Unit 1 (HP)	-	-	-	-	8	-	-	14	8	10	12	14	12	14	14	-	14	14	16	-	-
Outdoor Unit 2 (HP)	-	-	-	-	8	-	-	8	8	8	8	8	12	12	14	-	14	14	14	-	-
Outdoor Unit 3 (HP)	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	-	12	14	14	-	-
Maximum Connectable Indoor Unit	-	-	-	-	30	-	-	33	36	39	42	45	48	48	48	-	48	48	48	-	-

AJ* : AJY(FUJITSU), AJH(GENERAL)

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