

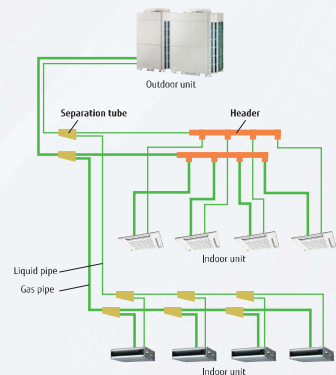


**Heat Pump**  
Modular type

VRF **V-IV**

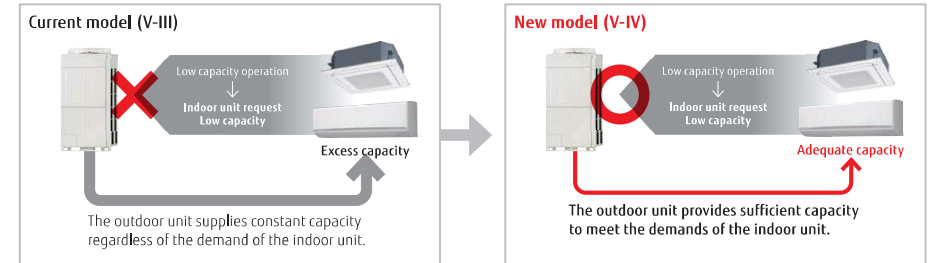
**System configuration example**

- 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.

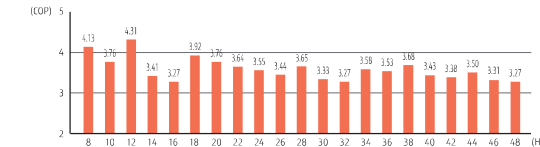


\* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

**Efficiency in actual operating conditions**

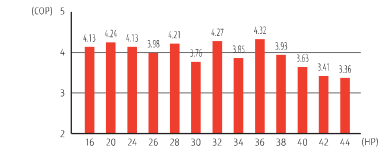
The use of our proprietary heat exchanger structure and high-efficiency DC twin-rotary compressors achieves the class-leading coefficient of performance (COP) in every combination.

**Space saving combination**



\* These specifications are determined by Cassette combination.

**Energy efficiency 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 1PM.
- 4-face heat exchanger**  
The 4-face heat exchanger increases the effective surface area and significantly improves heat-exchanging efficiency.
- 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.
- 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)  AJY072LALDH UNIT: AJY072LALDH	28.0 kW (10 HP)  AJY090LALDH UNIT: AJY090LALDH	33.5 kW (12 HP)  AJY108LALDH UNIT: AJY108LALDH	40.0 kW (14 HP)  AJY126LALDH UNIT: AJY126LALDH	45.0 kW (16 HP)  AJY144LALDH UNIT: AJY144LALDH
50.4 kW (18 HP)  AJY162LALDH UNIT: AJY090/072LALDH	56.0 kW (20 HP)  AJY180LALDH UNIT: AJY090/090LALDH	62.4 kW (22 HP)  AJY198LALDH UNIT: AJY126/072LALDH	68.0 kW (24 HP)  AJY216LALDH UNIT: AJY126/090LALDH	73.0 kW (26 HP)  AJY234LALDH UNIT: AJY144/090LALDH
78.5 kW (28 HP)  AJY252LALDH UNIT: AJY144/108LALDH	85.0 kW (30 HP)  AJY270LALDH UNIT: AJY144/126LALDH	90.0 kW (32 HP)  AJY288LALDH UNIT: AJY144/144LALDH	95.4 kW (34 HP)  AJY306LALDH UNIT: AJY144/090/072LALDH	101.0 kW (36 HP)  AJY324LALDH UNIT: AJY144/090/090LALDH
106.5 kW (38 HP)  AJY342LALDH UNIT: AJY144/108/090LALDH	113.0 kW (40 HP)  AJY360LALDH UNIT: AJY144/126/090LALDH	118.0 kW (42 HP)  AJY378LALDH UNIT: AJY144/144/090LALDH	123.5 kW (44 HP)  AJY396LALDH UNIT: AJY144/144/108LALDH	130.0 kW (46 HP)  AJY414LALDH UNIT: AJY144/144/126LALDH
135.0 kW (48 HP)  AJY432LALDH UNIT: AJY144/144/144LALDH				

Energy efficiency combination

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

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



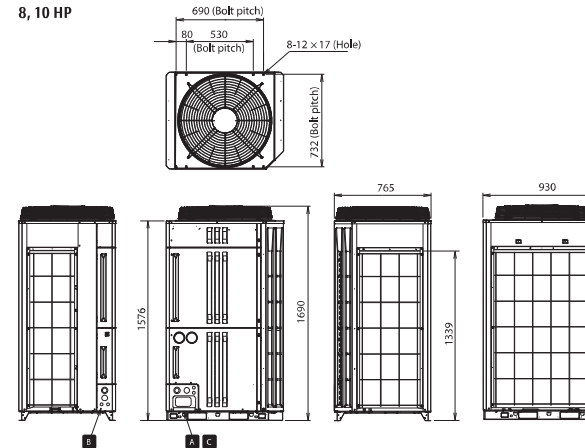
8, 10 HP

12, 14, 16 HP

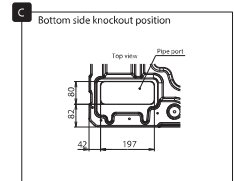
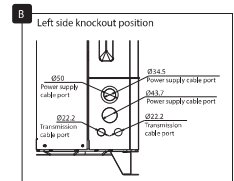
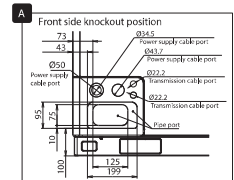
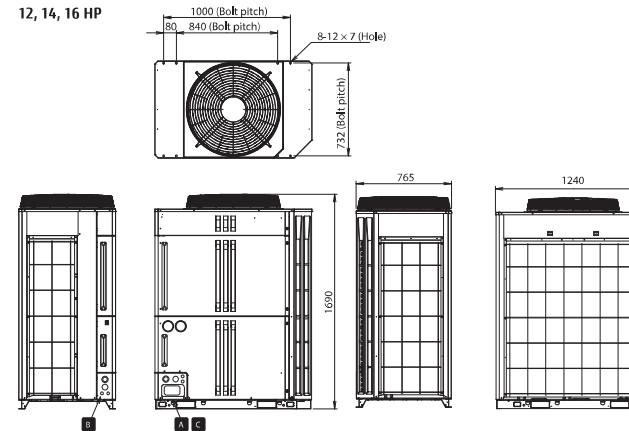
Dimensions

(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 Unit 2 Unit 3			AJY072LALDH	AJY090LALDH	AJY108LALDH	AJY126LALDH	AJY144LALDH	AJY162LALDH	AJY180LALDH	AJY198LALDH	AJY216LALDH	AJY234LALDH	AJY252LALDH	AJY270LALDH	AJY288LALDH	AJY306LALDH	AJY324LALDH	AJY342LALDH	AJY360LALDH	AJY378LALDH	AJY396LALDH	AJY414LALDH	AJY432LALDH	
Maximum connectable indoor units*			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	11.2-53.6	14.0-62.0	16.8-80.2	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	29.32	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	
ELR	Cooling	W/W	3.76	3.09	3.51	3.03	2.68	3.36	3.09	3.26	3.06	3.44	2.99	2.84	2.69	3.00	2.90	3.01	2.90	2.77	2.87	2.79	2.69	
	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	3.30	3.50	3.31	3.27	
COP	Cooling		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	3.22	3.38	3.20	3.20	
	Max. Heating		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	
SEER	Cooling		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	
	Heating		281.0	259.0	290.0	284.0	264.0	270.0	259.0	262.5	261.5	251.5	267.0	254.0	247.0	261.3	254.0	264.3	255.7	260.0	259.3	250.7	254.0	
ηc	Cooling	%	150.0	149.0	165.0	165.0	168.0	169.5	149.0	159.0	157.0	158.5	166.5	166.5	168.0	155.3	160.7	160.7	161.7	167.0	167.0	167.0	167.0	
	Heating		11.100	11.100	12.020	13.000	13.700	11.100-2	11.100-2	13.000-2	13.000-2	13.000-2	11.100-2	11.100-2	11.100-2	13.000-2	13.000-2	13.000-2	13.000-2	13.000-2	13.000-2	13.000-2	13.000-2	13.000-2
Air flow rate	High	m <sup>3</sup> /h	58.79	58.79	58.78	62.84	63.86	61.82	63.85	63.85	63.85	64.87	64.87	66.88	66.88	68.89	67.89	67.89	67.89	68.90	69.91	69.91	70.92	
	Low		59.80	60.81	60.83	64.85	65.87	63.84	63.84	63.84	63.84	64.86	64.86	66.87	66.87	68.88	67.88	67.88	67.88	68.89	69.90	69.90	70.91	
Sound pressure level**/Power level	Cooling	dB(A)	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	
	Heating		59.80	60.81	60.83	64.85	65.87	63.84	63.84	63.84	63.84	64.86	64.86	66.87	66.87	68.88	67.88	67.88	67.88	68.89	69.90	69.90	70.91	
Max. External static pressure	Cooling	Pa	7.5	7.5	11.0	11.0	11.0	7.5-2	7.5-2	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2	11.0-2	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-3	11.0-3	
	Heating		7.5	7.5	11.0	11.0	11.0	7.5-2	7.5-2	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2	11.0-2	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-3	11.0-3	
Compressor motor output	Cooling	kW	7.5	7.5	11.0	11.0	11.0	7.5-2	7.5-2	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2	11.0-2	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-3	11.0-3	
	Heating		7.5	7.5	11.0	11.0	11.0	7.5-2	7.5-2	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2	11.0-2	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-2.5	11.0-3	11.0-3	
Heat exchanger fin	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	1,240-930	1,240-2	1,240-2	1,240-930-2	1,240-930-2	1,240-930-2	1,240-930-2	1,240-930-2	1,240-930-2	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	Cooling	kg	252	252	275	275	252-2	252-2	275-252	275-252	275-252	275-2	275-2	275-2	275-2	275-252-2	275-252-2	275-252-2	275-252-2	275-252-2	275-252-2	275-3	275-3	
	Heating		252	252	275	275	252-2	252-2	275-252	275-252	275-252	275-2	275-2	275-2	275-2	275-252-2	275-252-2	275-252-2	275-252-2	275-252-2	275-252-2	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)		
	Charge		kg (CO2eq-1)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.7-2 (24.4-2)	11.7-2 (24.4-2)	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)	11.8-2 (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)
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	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
	Gas		22.72	22.72	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	41.27		
Operating Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 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		

#### Energy Efficiency Combination

Rated capacity range		HP	16	24	26	28	30	32	34	36	38	40	42	44		
Model name			AJY144LALDHH	AJY180LALDHH	AJY216LALDHH	AJY234LALDHH	AJY252LALDHH	AJY270LALDHH	AJY288LALDHH	AJY306LALDHH	AJY324LALDHH	AJY360LALDHH	AJY378LALDHH	AJY396LALDHH		
Unit 1 Unit 2 Unit 3			AJY072LALDH	AJY108LALDH	AJY126LALDH	AJY144LALDH	AJY162LALDH	AJY180LALDH	AJY216LALDH	AJY234LALDH	AJY252LALDH	AJY270LALDH	AJY288LALDH	AJY306LALDH		
Maximum connectable indoor units*			34	43	52	56	60	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	44.2-134.1	48.0-143.8	50.3-150.7	53.5-160.5	56.8-170.2	60.0-180.0		
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	25.08	28.62	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	37.26	
	Max. Heating		12.52	15.74	18.78	21.50	22.00	26.52	25.22	29.74	28.44	32.96	37.48			