

FUJITSU

THE POSSIBILITIES ARE INFINITE

Refrigerant
R407C

INVERTER

Heat Pump 4 Room Multi System



FUJITSU GENERAL LIMITED

PRODUCT FEATURES

THE INTELLIGENT CHOICE IN COMFORT

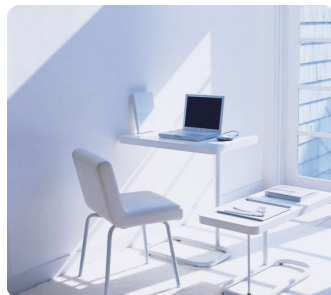
That's what Fujitsu air conditioners have to offer. The Fujitsu inverter multi system promises to make your life more comfortable. Featuring advanced DC inverter technology, we offer you more power and more efficiency than



Features

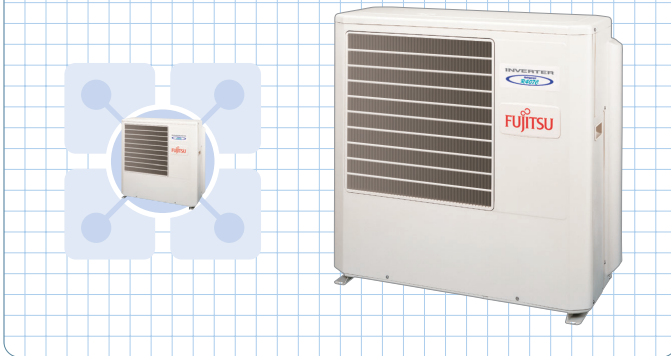
DC Inverter Multi System

The Fujitsu Inverter System is equipped with a state of the art DC Twin Rotary Compressor. It can reach the room temperature you set 15% quicker than conventional models and precisely maintain it at a difference of just 0.5°C. Advanced DC Twin Rotary Compressor makes operation at High Power and High Efficiency a reality.



High power, High COP & Energy Saving

Outdoor Unit : AOY30QMAM4



- Maximum output capacity in industry.
9.5kW (Cooling) 11.2kW (Heating)
- Adopting high efficient DC twin rotary compressor.
- Adopting an inverter circuit of PAM (Power Active Module) system.
- High Efficiency DC Inverter Multi system permits energy saving operation and 50% higher efficiency than a Constant-Speed Multi system. Improved Inverter cooling ratio prevents decrease in capacity under overload operation.

Flexible Use

- Flexible 4 step-switching of operation current. (8.5A / 11A / 13.5A / 16.5A)
- Up to four capacity type indoor units can connect to one outdoor unit.

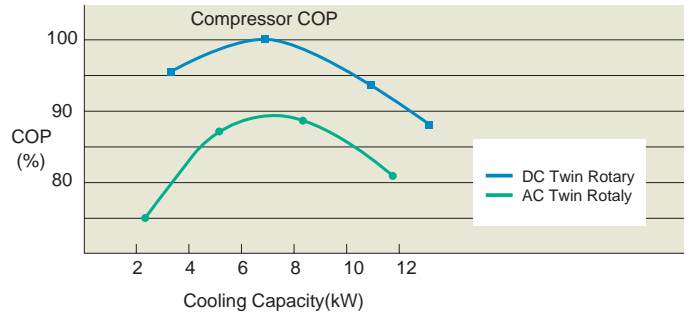
Flexible Installation

By means of 60m (gas charge-less 40m) long piping, the outdoor unit can be installed in a wide range of properties.

High COP

	New model	Current model
Cooling	3.02	2.62
Heating	3.58	2.93

Comparison of cooling efficiency of DC compressor (against AC compressor)



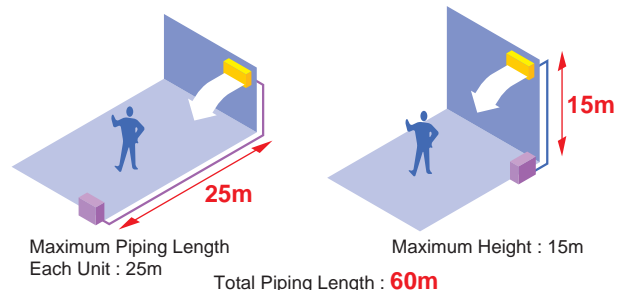
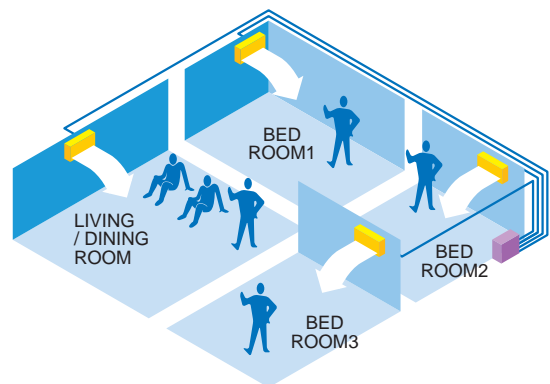
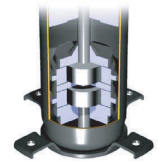
Capacity (at 230V)

	Rated	Max.
Cooling	8.0kW	9.5kW
Heating	9.3kW	11.2kW

Energy Saving Over a Year's Time



DC twin rotary compressor



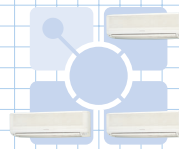
Prevents EMI to television sets, radios, and computers meeting European EMC Standards and improves resistance against extraneous noise.

PRODUCT FEATURES

Indoor Unit



- **Wall Mounted Type Large Size :**
- ASY18QMA-W** 5.2kW (17,800BTU/h)
 6.2kW (21,200BTU/h)
- ASY24QMA-W** 6.9kW (23,600BTU/h)
 8.2kW (28,000BTU/h)



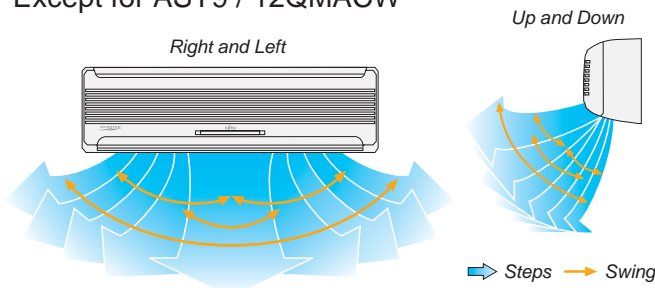
- **Wall Mounted Type Small Size :**
- ASY9QMACW** 2.7kW (9,200BTU/h)
 3.3kW (11,300BTU/h)
- ASY12QMACW** 3.5kW (12,000BTU/h)
 4.0kW (13,700BTU/h)



Multi Airflow

Vertical and horizontal air direction control supplies regular airflow and suppresses temperature changes even in a large room.

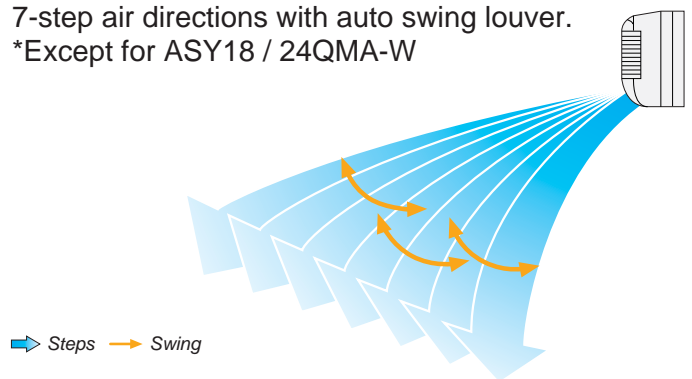
*Except for ASY9 / 12QMACW



Auto Swing Louver

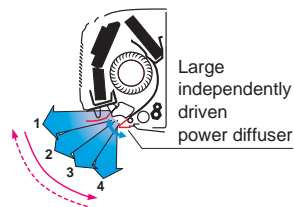
7-step air directions with auto swing louver.

*Except for ASY18 / 24QMA-W

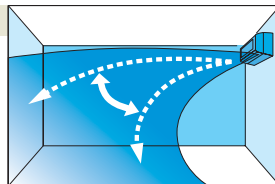


Large independently driven power diffusers used

Cooling

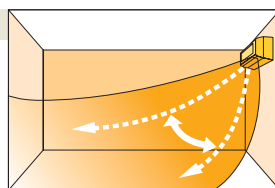
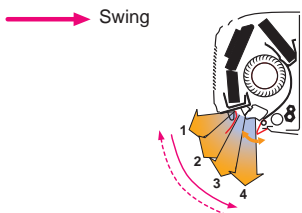


Large independently driven power diffuser



Horizontal concentration and other air direction control

Heating



Wide down flow

Auto-Changeover

The optimum operation mode based on your temperature setting is automatically selected and pleasant air conditioning is performed.

*Except for ASY9 / 12QMACW

Auto Restart

In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power is restored.

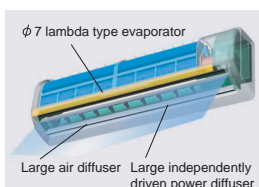
Quiet Operation

In quiet mode :

ASY9QMACW [31dB (A)], ASY12QMACW [32dB (A)]

Operation sound (Low noise)

- Hi : 44dB (Existing model : 47dB)
- 24type actual data
- High efficiency fan construction
⇒ ϕ 7mm Lambda type evaporator improves the airflow path
- Large air diffuser



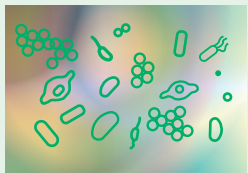
Easy installation

Larger space at base of housing means extra 15% piping space.

"WASABI"filter & Light-regenerated deodorizing filter

"WASABI"filter

Bacteria in air / Type of mold etc



Yellow staphylococcus	1.6×10^4	→	95% or more
Colon bacillus	2.5×10^4	→	99% or more
MRSA (Virus)	2.3×10^4	→	99% or more

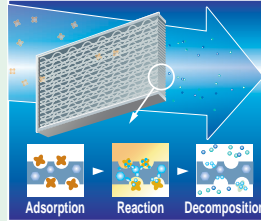
Rate of removal

Conforms to Japan Spinners Inspecting Foundation (Test No.016928-1,-2,-3)

Exchange timing : **Once / three months**

*Except for ASY9 / 12QMACW

Light-regenerated deodorizing filter



Deodorizing effect (Malodor reduction speed)

Bad smell	0 minutes - After 30 minutes	
	Initial value (Rate of content)	Rate of removal
Ammonia	21.4ppm/m ³	60% or more
Acetaldehyde	6.1ppm/m ³	35% or more
Acetic acid	1.5ppm/m ³	75% or more

Conforms to The Japan Electrical Manufacturers' Association's standard JEM1467 ; Deodorizing Performance Test

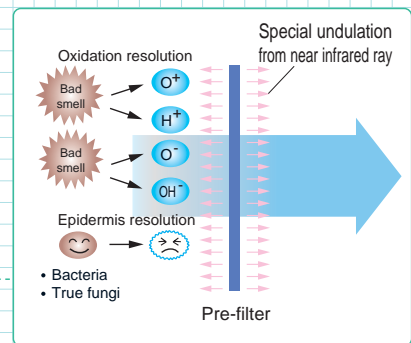
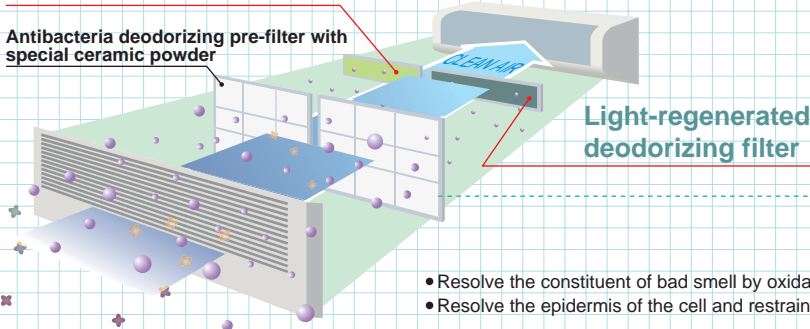
Cleaning and maintenance : **Deodorization capability is reproduced by illuminating the sunlight of about 6 hours to a filter every 6 months.** (Repeated use available for about 3 years)

*Except for ASY9 / 12QMACW

Mechanism of deodorization and anti-bacteria

"WASABI"filter

Antibacteria deodorizing pre-filter with special ceramic powder



- Resolve the constituent of bad smell by oxidation and restoration reaction.
- Resolve the epidermis of the cell and restrain from propagation of bacteria / mould.

Wireless Remote Controller

Compact and Ergonomics Designed Form (Example is ASY18 / 24QMA-W)

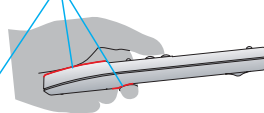
Good matching for your palm



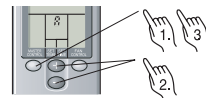
2 batteries



Ergonomics design has been realized a good key operation.



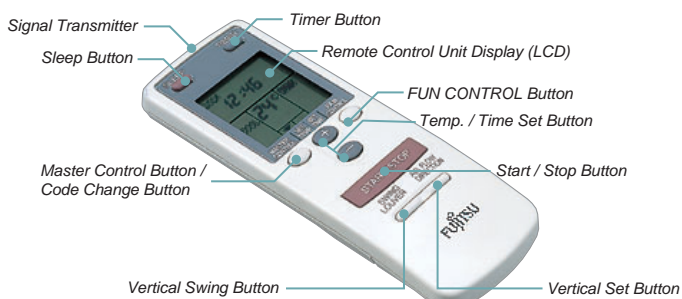
Transmission Code Change (Except for ASY9 / 12QMACW)



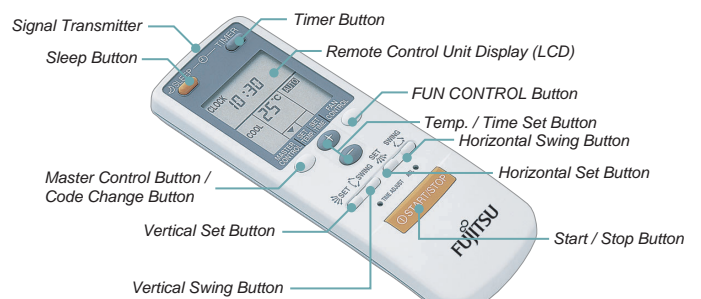
1. Press the MASTER CONTROL button or more five seconds to start the code change.
2. Press the (+) or (-) button to select the desired code.
→ A → B → C → D
3. Press the MASTER CONTROL button again to end the code change.

Function Buttons

● ASY9 / 12QMACW



● ASY18 / 24QMA-W




Capacity Table (1 φ 50Hz 230V)

Only the combination of 3 or 4 indoor units can be connected with 1 outdoor unit.


● SYSTEM 3 : 1 outdoor unit to 3 indoor units. ● SYSTEM 4 : 1 outdoor unit to 4 indoor units.

SYSTEM 3
1 outdoor unit to 3 indoor units.



Combination of Indoor Unit

Room A



ASY9QMACW
C 2.70kW
H 3.30kW

or

ASY12QMACW
C 3.50kW
H 4.00kW


or

ASY18QMA-W
C 5.20kW
H 6.20kW

or

ASY24QMA-W
C 6.90kW
H 8.20kW

Room B




ASY9QMACW
C 2.70kW
H 3.30kW

or

ASY12QMACW
C 3.50kW
H 4.00kW

Room C



ASY9QMACW
C 2.70kW
H 3.30kW

or

ASY12QMACW
C 3.50kW
H 4.00kW

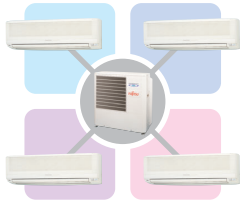
Cooling Mode

AOY30QMAM4	Indoor Unit				Unit each capacity (kW)				Capacity (kW)			Current (A)			Input (kW)						
	1	2	3	4	1	2	3	4	Min	Rated	Max	Min	Rated	Max	Min	Rated	Max				
Only 1 indoor unit in operations	9	-	-	-	2.70	-	-	-	1.8	2.7	2.7	3.0	5.2	5.2	0.68	1.20	1.20				
	12	-	-	-	3.50	-	-	-	1.9	3.5	3.5	3.0	5.7	5.7	0.68	1.30	1.30				
	3 or 4 indoor units connected				18	-	-	-	5.20	-	-	-	2.8	5.2	5.2	4.1	9.1	9.1	0.95	2.10	2.10
					24	-	-	-	6.90	-	-	-	3.3	6.9	6.9	4.7	12.9	12.9	1.08	2.96	2.96
Only 2 indoor units in operations	9	9	-	-	2.70	2.70	-	-	2.9	5.4	5.4	4.2	9.1	9.1	0.96	2.10	2.10				
	9	12	-	-	2.70	3.50	-	-	3.0	6.2	6.2	4.2	10.2	10.2	0.96	2.35	2.35				
	9	18	-	-	2.40	4.60	-	-	3.5	7.0	7.9	4.9	10.6	14.9	1.12	2.45	3.42				
	9	24	-	-	2.20	5.05	-	-	4.4	7.2	8.3	6.2	10.6	15.2	1.42	2.44	3.49				
	3 or 4 indoor units connected				12	12	-	-	3.30	3.30	-	-	3.4	6.6	7.0	4.8	10.4	12.6	1.10	2.40	2.90
					12	18	-	-	2.80	4.35	-	-	4.3	7.2	8.2	6.3	10.7	15.3	1.45	2.46	3.51
					12	24	-	-	2.60	4.80	-	-	5.2	7.4	8.6	7.9	10.6	15.3	1.82	2.44	3.51
					18	18	-	-	2.80	4.35	-	-	4.3	7.2	8.2	6.3	10.7	15.3	1.45	2.46	3.51
SYSTEM 3 (Only 3 indoor units in operations)	9	9	9	-	2.35	2.35	2.35	-	3.3	7.1	7.9	4.6	10.8	15.2	1.05	2.50	3.49				
	9	9	12	-	2.25	2.25	2.75	-	4.1	7.3	8.3	5.9	10.9	15.5	1.35	2.51	3.57				
	9	9	18	-	1.90	1.90	3.70	-	5.0	7.5	8.8	7.5	11.0	15.6	1.73	2.54	3.59				
	9	9	24	-	1.80	1.80	4.20	-	5.4	7.8	9.0	8.3	11.0	15.5	1.91	2.52	3.57				
	4 indoor units connected				9	12	12	-	2.15	2.65	2.65	-	4.2	7.5	8.5	5.9	10.9	15.6	1.35	2.51	3.60
					9	12	18	-	1.80	2.20	3.60	-	5.0	7.6	9.0	7.5	11.1	15.7	1.73	2.54	3.60
					9	12	24	-	1.75	2.15	4.00	-	5.5	7.9	9.2	8.3	11.0	15.6	1.91	2.52	3.58
					12	12	12	-	2.50	2.50	2.50	-	4.2	7.5	8.7	5.9	10.9	15.7	1.35	2.51	3.62
					12	12	18	-	2.10	2.10	3.45	-	5.1	7.7	9.1	7.5	11.1	15.7	1.73	2.54	3.61
					12	12	24	-	2.05	2.05	3.80	-	5.5	7.9	9.3	8.3	11.0	15.6	1.91	2.52	3.59
	SYSTEM 4	9	9	9	9	1.95	1.95	1.95	1.95	4.7	7.8	9.0	7.0	11.6	15.9	1.60	2.67	3.67			
		9	9	9	12	1.85	1.85	1.85	2.25	4.7	7.8	9.1	7.0	11.6	16.0	1.60	2.67	3.68			
9		9	9	18	1.65	1.65	1.65	3.05	5.2	8.0	9.4	7.8	11.7	15.9	1.79	2.70	3.65				
9		9	12	12	1.75	1.75	2.15	2.15	4.8	7.8	9.3	7.0	11.6	16.1	1.60	2.68	3.69				
9		9	12	18	1.55	1.55	1.90	3.00	5.2	8.0	9.5	7.8	11.7	15.9	1.79	2.70	3.66				
9		12	12	12	1.70	2.05	2.05	2.05	5.1	7.9	9.4	7.7	11.6	16.1	1.77	2.67	3.70				
12		12	12	12	2.00	2.00	2.00	2.00	5.2	8.0	9.5	7.7	11.6	16.1	1.77	2.67	3.70				

SYSTEM 4

1 outdoor unit to 4 indoor units.

Combination of Indoor Unit



<p>Room A</p>	<p>ASY9QMACW C 2.70kW H 3.30kW</p>	or	<p>ASY12QMACW C 3.50kW H 4.00kW</p>	or	<p>ASY18QMA-W C 5.20kW H 6.20kW</p>
<p>Room B</p>	<p>ASY9QMACW C 2.70kW H 3.30kW</p>	or	<p>ASY12QMACW C 3.50kW H 4.00kW</p>		
<p>Room C</p>	<p>ASY9QMACW C 2.70kW H 3.30kW</p>	or	<p>ASY12QMACW C 3.50kW H 4.00kW</p>		
<p>Room D</p>	<p>ASY9QMACW C 2.70kW H 3.30kW</p>	or	<p>ASY12QMACW C 3.50kW H 4.00kW</p>		

Heating Mode

AOY30QMAM4	Indoor Unit				Unit each capacity (kW)				Capacity (kW)			Current (A)			Input (kW)		
	1	2	3	4	1	2	3	4	Min	Rated	Max	Min	Rated	Max	Min	Rated	Max
Only 1 indoor unit in operations 3 or 4 indoor units connected	9	-	-	-	3.30	-	-	-	2.0	3.3	3.3	3.3	5.6	5.6	0.77	1.28	1.28
	12	-	-	-	4.00	-	-	-	2.0	4.0	4.0	3.2	7.3	7.3	0.74	1.68	1.68
	18	-	-	-	6.20	-	-	-	3.3	6.2	6.2	4.4	10.7	10.7	1.01	2.46	2.46
	24	-	-	-	8.20	-	-	-	3.8	8.2	8.2	5.0	13.9	13.9	1.16	3.20	3.20
Only 2 indoor units in operations 3 or 4 indoor units connected	9	9	-	-	3.30	3.30	-	-	3.1	6.6	6.6	4.0	10.0	10.0	0.92	2.30	2.30
	9	12	-	-	3.30	4.00	-	-	3.1	7.3	7.3	3.8	12.1	12.1	0.86	2.78	2.78
	9	18	-	-	2.89	5.70	-	-	3.7	8.6	9.2	4.3	11.8	14.1	0.98	2.72	3.24
	9	24	-	-	2.50	6.25	-	-	4.2	8.8	10.2	5.0	11.1	15.0	1.15	2.56	3.45
	12	12	-	-	4.00	4.00	-	-	3.6	8.0	8.0	4.7	13.0	13.0	1.08	3.00	3.00
	12	18	-	-	3.15	5.55	-	-	4.3	8.7	9.7	5.2	11.7	15.3	1.20	2.68	3.51
	12	24	-	-	2.70	6.05	-	-	4.9	8.8	10.3	6.1	11.0	15.1	1.41	2.53	3.47
SYSTEM 3	9	9	9	-	2.95	2.95	2.95	-	3.8	8.9	9.6	5.0	13.1	16.0	1.14	3.02	3.69
	9	9	12	-	2.85	2.85	3.15	-	4.4	8.9	9.7	6.0	12.9	16.0	1.38	2.98	3.69
	9	9	18	-	2.40	2.40	4.75	-	5.3	9.6	11.0	6.7	12.6	16.0	1.54	2.89	3.69
	9	9	24	-	2.15	2.15	5.30	-	5.4	9.6	11.2	6.3	11.8	15.9	1.44	2.72	3.66
	9	12	12	-	2.80	3.15	3.15	-	4.4	9.1	9.9	5.9	13.7	16.0	1.37	3.15	3.69
	9	12	18	-	2.35	2.65	4.60	-	5.0	9.6	11.2	6.0	12.5	16.1	1.38	2.86	3.70
	9	12	24	-	2.10	2.30	5.20	-	5.4	9.6	11.5	6.2	11.7	15.8	1.43	2.70	3.63
	12	12	12	-	3.05	3.05	3.05	-	4.5	9.2	10.1	5.9	13.5	16.0	1.35	3.10	3.69
	12	12	18	-	2.50	2.50	4.50	-	5.0	9.5	11.2	5.9	12.3	15.9	1.37	2.84	3.66
	12	12	24	-	2.26	2.26	5.08	-	5.4	9.6	11.2	6.1	11.6	15.6	1.41	2.68	3.60
Only 3 indoor units in operations 4 indoor units connected	9	9	9	-	2.95	2.95	2.95	-	3.9	8.9	9.4	4.6	12.5	15.2	1.05	2.89	3.50
	9	9	12	-	2.85	2.85	3.20	-	4.5	8.9	9.7	5.4	12.4	16.0	1.25	2.84	3.67
	9	9	18	-	2.30	2.30	4.50	-	5.3	9.1	10.9	6.2	11.5	16.0	1.43	2.65	3.68
	9	12	12	-	2.80	3.10	3.10	-	4.5	9.0	10.2	5.3	12.2	16.1	1.23	2.80	3.70
	9	12	18	-	2.25	2.45	4.50	-	5.2	9.2	11.0	6.2	11.4	16.1	1.42	2.63	3.70
SYSTEM 4	12	12	12	-	3.05	3.05	3.05	-	4.6	9.2	10.3	5.3	12.0	16.1	1.22	2.76	3.70
	9	9	9	9	2.30	2.30	2.30	2.30	5.5	9.2	10.9	6.5	11.8	16.0	1.49	2.72	3.69
	9	9	9	12	2.25	2.25	2.25	2.50	5.5	9.3	11.0	6.4	11.7	16.1	1.47	2.69	3.70
	9	9	9	18	1.85	1.85	1.85	3.75	6.2	9.3	11.2	7.4	11.1	15.7	1.69	2.55	3.60
	9	9	12	12	2.20	2.20	2.45	2.45	5.5	9.3	11.1	6.3	11.6	16.2	1.46	2.67	3.72
	9	9	12	18	1.80	1.80	2.05	3.65	6.2	9.3	11.2	7.3	11.0	15.5	1.68	2.53	3.57
9	12	12	12	2.10	2.40	2.40	2.40	6.3	9.3	11.1	7.7	11.5	16.0	1.77	2.64	3.69	
12	12	12	12	2.33	2.33	2.33	2.33	6.3	9.3	11.2	7.6	11.4	16.1	1.75	2.62	3.70	

Specifications for Inverter Model

Indoor Unit

Model No			ASY9QMACW	ASY12QMACW	ASY18QMA-W	ASY24QMA-W
Capacity	Cooling	kW	2.7	3.5	5.2	6.9
		BTU	9,200	12,000	17,800	23,600
	Heating	kW	3.3	4.0	6.2	8.2
		BTU	11,300	13,700	21,200	28,000
Noise Level	High	dB (A)	38	39	42	46
	Med	dB (A)	36	37	39	42
	Low	dB (A)	34	35	36	37
	Quiet	dB (A)	31	32	33	34
Dimensions (H x W x D)		mm	260 x 815 x 175		320 x 1,120 x 220	
Net Weight		kg	8		16	
Air Flow Rate		m ³ /h	440	500	840	1,000
Pipe Connections	Type		Flare			
	Liquid Side		φ 6.35	φ 6.35	φ 6.35	φ 9.52
	Gas Side		φ 9.52	φ 12.7	φ 12.7	φ 15.88

Outdoor Unit

Model No			AOY30QMAM4			
Number of Indoor Units			4			
Combined I.U / O.U. Total Capacity		kW (BTU)	8.0-14.0 (27,000-48,000BTU)			
Operating Mode			Cooling	Heating		
Power Supply			(220)-230-(240)V 50Hz			
Rated	Capacity	kW	8.0	9.3		
		BTU	27,300	31,800		
	Running Current		A	11.6	11.4	
	Power Input		kW	2.67	2.62	
	Power Factor		%	100	100	
	COP			3.00	3.55	
Capacity Range		kW	1.8-9.5	2.0-11.2		
Running Current		A	3.0-16.1	3.3-16.2		
Power Input Range		kW	0.68-3.70	0.77-3.72		
Starting Current		A	10			
Noise Level		dB (A)	48 / 53 (Low / High)			
Dimensions (H x W x D)		mm	900 x 900 x 350			
Net Weight		kg	75			
Compressor	Type		Twin Rotary Type with DC-inverter			
	Motor Output	kW	1.3			
Piping Connections	Type		Flare			
	Unit A		φ 6.35 (φ 9.52) / φ 9.52 or φ 12.7 (φ 15.88)			
	Unit B		φ 6.35 / φ 9.52 or φ 12.7			
	Unit C		φ 6.35 / φ 9.52 or φ 12.7			
	Unit D		φ 6.35 / φ 9.52 or φ 12.7			
Maximum Pipe Length	Each Unit	m	25			
	Total	m	60 (Charge less 40m)			
Maximum Pipe Height Different		m	15			
Refrigerant			R407C 3,000g			
Wiring Connection	Power Supply		2 Wires + Earth			
	Indoor to Outdoor		3 Wires + Earth			
Operating Temperature Outdoor		°C	10 to 46 (Cooling) / -10 to 21 (Heating)			

I.U.=Indoor Unit O.U.=Outdoor Unit



ISO 9001
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ISO 14001
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Fujitsu General (Shanghai) Co., Ltd.



ISO 9001
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