

# FUJITSU 2 & 3-4 Head Multi System



NEW ZEALAND'S FAVOURITE AIR™

FUJITSU

INVERTER 2 & 3-4 ROOM

# Multi System

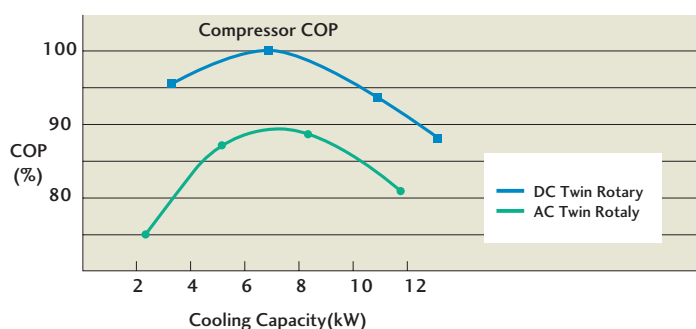
The Fujitsu Inverter Multi System has been designed with flexibility in mind. With the introduction of indoor units in a range of capacities and types, Fujitsu have made it easier to air condition or heat most domestic applications in New Zealand.

The Fujitsu Inverter Multi System is ideal where an individual indoor unit is required in each room, for example, a living room and 3 bedrooms. The Fujitsu Inverter Multi System allows only one outdoor unit to be connected up to a wide variety of 2 for the AOT24LMAM2 or 3 or 4 for the AOT30LMAW4 indoor units including Hi-Wall, Floor/Ceiling Console, Cassette and Bulkhead type ducted. All indoor units can be controlled separately.

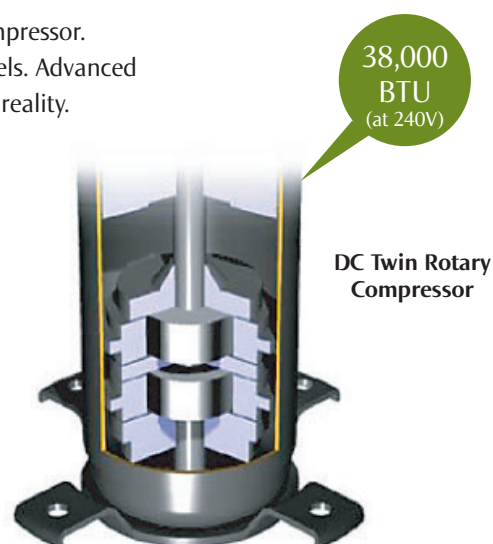
## ■ DC Twin Rotary Compressor

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. Advanced DC twin rotary compressor makes operation at high power and high efficiency a reality.

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

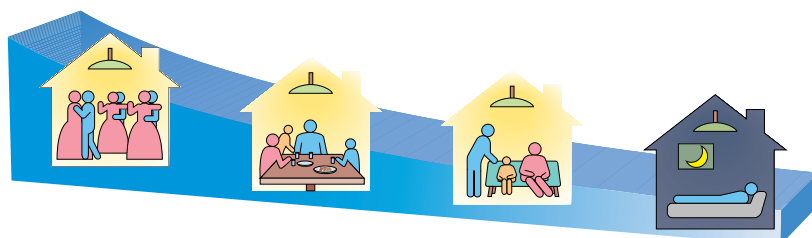


\*Depends on room size and heat load.



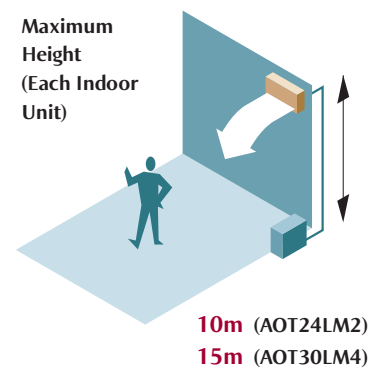
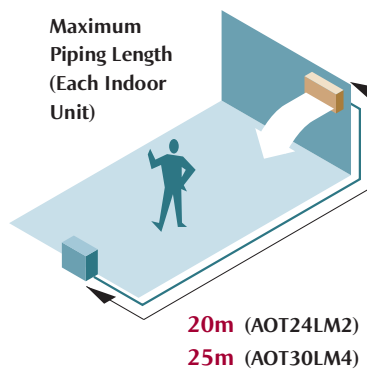
## ■ Stable & Comfort

The Heat Pump's output is stabilised at the optimum setting within the range from maximum to minimum to match the load, which is affected by factors such as the room temperature and the number of people present.



## Flexible Installation

The outdoor unit can be installed in a wide range of properties by the long piping of 30m (gas chargeless) for AOT24LM2 and 70m (gas chargeless to 50m) for AOT30LM4.



Maximum Total Piping Length: **30m** (AOT24LM2) **70m** (AOT30LM4)

## High Energy Efficiency

The high efficiency DC Inverter Multi System offers energy saving operation and 50% higher efficiency than a constant-speed multi system. Improved Inverter cooling ratio prevents a drop in capacity when operating under load conditions.









## Capacity Table

### AOT24LMAM2 1 outdoor unit to 2 indoor units

The total capacity of the indoor units that can be connected is 4.1 ~ 8.7kW (14,000 ~ 30,000BTU)

### AOT30LMAMW4 1 outdoor unit to 3-4 indoor units

The total capacity of the indoor units that can be connected is 7.9 ~ 14.3kW (27,000 ~ 49,000BTU)

	Hi-Wall Type (Small Size)	Hi-Wall Type (Large Size)	Cassette Type (Compact)	Floor/Ceiling Universal Type	Bulkhead	
2.2kW (7,500 BTU)	 AST7L					AOT24LMAM2 AOT30LMAMW4
2.7kW (9,200 BTU)	 AST9L					
3.5kW (11,900 BTU)	 AST12L		 AUT12L			
4.2 - 4.3kW (14,300 - 14,600 BTU)				 ABT14L		
5.2kW (18,700 BTU)		 AST18L	 AUT18L	 ABT18L	 ART18L	
6.3kW (21,500 BTU)					 ART22L	
6.8kW (23,200 BTU)		 AST24L		 ABT24L		



Cassette (Compact) Type  
AUT12/18L



Bulkhead Type  
ART18/22L



Hi-Wall Type  
AST7/9/12L



Universal Type  
ABT14/18/24L



Hi-Wall Type  
AST18/24L



AOT24LMAM2

● 5.80kW / 19,800BTU/h

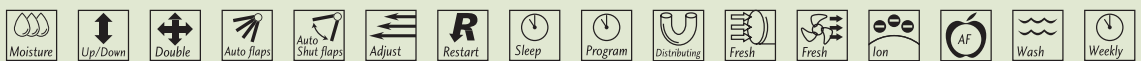
● 6.40kW / 21,900BTU/h



AOT30LMAW4

● 8.00kW / 27,300BTU/h

● 9.60kW / 32,800BTU/h



AUT12L/18L	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ART18L/22L	•					•	•	•	•			•				•
ABT14L/18L/24L	•		•	•	•	•	•	•	•							
AST7L/9L/12L/18L/24L	•	•		•	•	•	•	•	•			•	•	•		

## Advanced Features

- Equipped with DC Twin Rotary compressor
- 2 indoor units can be connected to one outdoor unit (AOT24LMAM2)
- 3 or 4 indoor units can be connected to one outdoor unit (AOT30LMAW4)
- Wide variety of indoor units including Hi-Wall, Floor/Ceiling Console, Cassette and Bulkhead Type Ducted
- All units can be controlled independently
- Reverse cycle operation
- Single phase (240V) power supply

## Independent Control

Each indoor unit can be operated independently. That is, on/off, temperature, air movement, up/down/left/right, time clock operation, can all be controlled from their own wireless remote.



# SPECIFICATIONS

## HI-WALL INDOOR UNITS

TYPE			HI WALL	HI WALL	HI WALL	HI WALL	HI WALL	
MODEL No.			Indoor Unit	AST7LMACW	AST9LMACW	AST12LMACW	AST18LBAJ	AST24LBAJ
Reverse Cycle				Yes	Yes	Yes	Yes	Yes
Cooling Capacities		Watts	2,200	2,700	3,500	5,200	6,800	
		BTU/Hr	7,500	9,200	11,900	17,800	23,200	
Heating Capacities		Watts	2,500	3,300	4,100	6,000	8,200	
		BTU/Hr	8,500	11,300	14,000	20,490	28,000	
Moisture Removal		L/Hr	1	1.2	1.6	3	3	
Fan Speeds			4	4	4	4	4	
Air Circulation		I/s	119	130	144	263	283	
Indoor Sound Pressure Level		Quiet	Dbaa at 1m	29	29	33	32	32
		Low	Dbaa at 1m	31	31	35	35	36
		Medium	Dbaa at 1m	32	34	37	39	41
		High	Dbaa at 1m	34	36	38	43	47
Dimensions and Weights	I.U	Height	mm	257	257	257	320	320
		Width	mm	808	808	808	1120	1120
		Depth	mm	187	187	187	220	220
		Net Weight	kg	8	8	8	16	16
Ex Static Pressure		Pa	N/A	N/A	N/A	N/A	N/A	
Indoor Unit Hole Cutout Size		mm	N/A	N/A	N/A	N/A	N/A	
Interconnect cables - size		Qty - mm2	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	4 - 2.5	
Power Supply Attachment			Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	
Refrigerant Type			R410a	R410a	R410a	R410a	R410a	
Connection Pipe Sizes		Gas	mm	9.52	9.52	9.52	12.7	15.88
		Liquid	mm	6.35	6.35	6.35	6.35	9.52
Minimum Pipe Length		Metre	5	5	5	5	5	
Maximum Pipe Length		Metre	25	25	25	25	25	
Maximum Pipe Height		Metre	10	10	10	10	10	
Pipe Connection Method			Flare	Flare	Flare	Flare	Flare	

## COMPACT CASSETTE INDOOR UNITS

Type			CASSETTE	CASSETTE		
MODEL No.		Indoor Unit	AUT12LBAB	AUT18LBAB		
Reverse Cycle			Yes	Yes		
Cooling Capacities		Watts	3,500	4,300		
		BTU/Hr	11,900	14,700		
Heating Capacities		Watts	3,800	5,000		
		BTU/Hr	13,000	17,100		
Moisture Removal		L/Hr	1.2	2		
Fan Speeds			3	3		
Air Circulation		l/s	152	172		
Indoor Sound Pressure Level		Quiet	Db a t 1m	N/A	N/A	
		Low	Db a t 1m	36	38	
		Medium	Db a t 1m	39	41	
		High	Db a t 1m	42	44	
Dimensions and Weights		L.U	Height	mm	235	235
			Width	mm	580	580
			Depth	mm	580	580
			Net Weight	kg	18	18
Ex Static Pressure		Pa	N/A	N/A		
Indoor Unit Hole Cutout Size		mm	600 x 600	600 x 600		
Interconnect cables - size		Qty - mm2	4 - 2.5	4 - 2.5		
Power Supply Attachment			Outdoor	Outdoor		
Refrigerant Type			R410a	R410a		
Connection Pipe Sizes		Gas	mm	9.52	12.7	
		Liquid	mm	6.35	6.35	
Minimum Pipe Length		Metre	5	5		
Maximum Pipe Length		Metre	25	25		
Maximum Pipe Height		Metre	10	10		
Pipe Connection Method			Flare	Flare		

## FLOOR/CEILING INDOOR UNITS

TYPE			FLOOR CEILING	FLOOR CEILING	FLOOR CEILING		
MODEL No.		Indoor Unit	ABT14LBAJ	ABT18LBAJ	ABT24LBAJ		
Reverse Cycle			Yes	Yes	Yes		
Cooling Capacities		Watts	4,200	5,200	6,800		
		BTU/Hr	14,300	17,800	23,200		
Heating Capacities		Watts	4,800	6,000	8,200		
		BTU/Hr	16,400	20,500	28,000		
Moisture Removal		L/Hr	1.5	1.7	2.5		
Fan Speeds			3	3	3		
Air Circulation		I/s	177	216	244		
Indoor Sound Pressure Level		Quiet	Db a t 1m	N/A	N/A	N/A	
		Low	Db a t 1m	30	36	41	
		Medium	Db a t 1m	34	41	45	
		High	Db a t 1m	37	44	49	
Dimensions and Weights		O.U	Height	mm	199	199	199
			Width	mm	990	990	990
			Depth	mm	655	655	655
			Net Weight	kg	28	28	28
Ex Static Pressure			Pa	N/A	N/A	N/A	
Indoor Unit Hole Cutout Size			mm	N/A	N/A	N/A	
Interconnect cables - size			Qty - mm2	4 - 2.5	4 - 2.5	4 - 2.5	
Power Supply Attachment			Outdoor	Outdoor	Outdoor		
Refrigerant Type			R410a	R410a	R410a		
Connection Pipe Sizes		Gas	mm	12.7	12.7	15.88	
		Liquid	mm	6.35	6.35	9.52	
Minimum Pipe Length			Metre	5	5	5	
Maximum Pipe Length			Metre	25	25	25	
Maximum Pipe Height			Metre	10	10	10	
Pipe Connection Method			Flare	Flare	Flare		

## BULKHEAD TYPE INDOOR UNITS

TYPE			BULKHEAD	BULKHEAD	
MODEL No.		Indoor Unit	ART18LUAD	ART22LUAD	
Reverse Cycle			Yes	Yes	
Cooling Capacities		Watts	5,200	6,300	
		BTU/Hr	17,800	21,500	
Heating Capacities		Watts	6,000	7,500	
		BTU/Hr	20,500	25,600	
Moisture Removal		L/Hr	1.7	2.2	
Fan Speeds			3	3	
Air Circulation		I/s	222	288	
Indoor Sound Pressure Level		Quiet	Db a t 1m	N/A	N/A
		Low	Db a t 1m	30	33
		Medium	Db a t 1m	35	41
		High	Db a t 1m	41	46
Dimensions and Weights	LU	Height	mm	217	217
		Width	mm	953	953
		Depth	mm	595	595
		Net Weight	kg	25	25
Ex Static Pressure		Pa	0 - 40	0 - 40	
Indoor Unit Hole Cutout Size		mm	N/A	N/A	
Interconnect cables - size		Qty - mm2	4 - 2.5	4 - 2.5	
Power Supply Attachment			Outdoor	Outdoor	
Refrigerant Type			R410a	R410a	
Connection Pipe Sizes		Gas	mm	12.7	12.7
		Liquid	mm	6.35	6.35
Minimum Pipe Length		Metre	5	5	
Maximum Pipe Length		Metre	25	25	
Maximum Pipe Height		Metre	10	10	
Pipe Connection Method			Flare	Flare	

## OUTDOOR UNITS

TYPE			INVERTER	INVERTER
MODEL No.			AOT24LMM2	AOT30LMAW4
Reverse Cycle			Yes	Yes
Cooling Capacities		Watts	5,800 (7,800 Max)	8,000 (10,100 Max)
		BTU/Hr	19,800 (26,600 Max)	27,300 (34,500 Max)
Heating Capacities		Watts	6,400 (9,000 Max)	9,600 (12,000 Max)
		BTU/Hr	21,900 (30,700 Max)	32,800 (41,000 Max)
E.E.R Cool		W/W	3.35	3.6
C.O.P Heat		W/W	3.9	4.0
Running Current	Cool	Amps	7.3 (12.2 Max)	9.7 (15.7 Max)
	Heat	Amps	6.9 (12.2 Max)	10.5 (15.7 Max)
Input Power	Cool	Watts	1,730 (2,920 Max)	2,220 (3,580 Max)
	Heat	Watts	1,640 (2,920 Max)	2,400 (3,580 Max)
Outdoor Sound Pressure Level		DbA at 1m	49	51
Outdoor Sound Power Level		DbA	62	64
Dimensions and Weights	O.U.	Height	mm	650
		Width	mm	830
		Depth	mm	320
		Net Weight	kg	56
Compressor Type			DC Rotary	Twin Rotary
Interconnect cables - size		Qty - mm2	4 - 2.5 (X2)	4 - 2.5 (X4)
Recommended Min. Power Cable		mm2	4	4
Phase - Frequency		Ph - Hz	1 - 50	1 - 50
Power Supply Attachment			Outdoor	Outdoor
Power Supply		Volts	230	230
Refrigerant Type			R410a	R410a
Connection Pipe Sizes	Gas	mm	1X 9.52 1X 12.7	2X 9.52 2X 12.7
	Liquid	mm	2X 6.35	4X 6.35
Minimum Pipe Length		Metre	5	5
Maximum Pipe Length (per indoor)		Metre	20	25
Maximum Pipe Length (total)		Metre	30	70
Maximum Pipe Height		Metre	10	10
Pre Charge Length		Metre	30	50
Pipe Connection Method			Flare	Flare
Outdoor Operating Temperature	Cool	Degree C	0 to 43	0 to 43
	Heat	Degree C	-10 to 24	-10 to 24

FUJITSU

HEAT PUMPS

NEW ZEALAND'S FAVOURITE AIR™

Fujitsu General New Zealand Limited

www.fujitsugeneral.co.nz

Products in this brochure contain R410A refrigerant.

Please refer to specifications before installation & servicing this product.

Equipment in this brochure must be installed and serviced by an Accredited Air Conditioning Specialist.

For future improvement, specifications and designs of product are subject to change without notice. Please check with your dealer.

Heating and cooling capacities are based on AS/NZS 3823.

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

Running current is at rated conditions (AS3823) and does not include compressor start-up or variations in power supply and load conditions.



## EXPLANATION OF FEATURES



### Moisture Removal

The computer effectively dehumidifies the air.



### Up/Down Swing Flaps

The up/down flaps automatically swing to up and down.



### Right/Left Swing Flaps

The right/left flaps automatically swing in either direction.



### Double Swing Automatic

Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



### Automatic Flaps

The position of the flaps is set automatically to match the operating mode. It is also possible to adjust the flaps using the remote control.



### Auto Shut Flaps

The auto shut flaps close or open automatically when the unit stops or starts.



### Automatic Air Flow Adjustment

The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.



### 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 supply is restored.



### Auto-Changeover

The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.



### Sleep Timer

The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.



### Program Timer

This digital timer allows selection of one of four options.  
ON, OFF, ON → OFF, or OFF → ON.



### ON-OFF Timer

ON-OFF timer can be set to operate once.



### Weekly Timer

Different on-off times can be set for each day.



### Weekly + Setback Timer

Weekly + Setback timer can set temperature for two time spans and for each day of the week.



### Connectable Distributing Duct

Conditioned air can be distributed by means of a distribution duct.



### Connectable Fresh Air Duct

Duct connection port hole opening. Fresh air can be introduced through this opening.



### Fresh air intake

Fresh air can be taken in by a fan which can be connected using UTD-ECS5A (optional parts).



Washable Panel



Long-life Ion deodorization filter



Long-life photocatalytic deodorizing filter



Apple-catechin filter



Wasabi antibacterial electrostatic filter



Cooling



Heating