

Inverter Compact Floor MFZ-KA Series



- Quietest Floor Console in NZ*
- Slim Line and Compact Design
- Anti-Allergy Enzyme & Catechin Filters
- Top and Bottom Air Vents
- Optional 7 Day Timer

*You want to feel the
warmth, not hear it.*

*MFZ-KA25VA at Low Fan Speed and Maximum Output,
as at 1st March 2006 in the 2.5kW Cooling Range.



Quietly Superior

Thermostatically controlled upper and lower air outlets Whisper Quiet and Energy Efficient

The new range is specifically designed to discreetly sit at floor level or be recessed* into the wall and could replace traditional floor mounted heating appliances such as night-store heaters. The slim-line range features independently controllable upper and lower air outlets ensuring optimum air distribution to guarantee warm feet! A comprehensive deodorising and air purifying filter system will ensure healthier and cleaner air. All this is packed in a compact floor design with the whisper quiet performance that you have come to expect from Mitsubishi Electric.

* Note: A PAR-21MAA Corded Remote Pack is required when recessing the Floor Console.



Dimensions (H x W x D):
600 x 700 x 200mm



MFZ-KA25VA (MFZ-KA25VA + SUZ-KA25VA)

Cooling Capacity: 2.5 (0.9~3.4) kW

Heating Capacity: 3.4 (0.9~5.1) kW

MFZ-KA35VA (MFZ-KA35VA + SUZ-KA35VA)

Cooling Capacity: 3.5 (0.9~3.9) kW

Heating Capacity: 4.0 (0.9~6.2) kW

MFZ-KA50VA (MFZ-KA50VA + SUZ-KA50VA)

Cooling Capacity: 4.8 (0.9~5.4) kW

Heating Capacity: 6.0 (0.9~7.9) kW

R410A

HEAT PUMP

DC
Inverter



Infra Red
Remote Controller

Cleaning-free,
pipe reuse

DC Inverter	PAM Control	Only 22dB KA25	Econo Cool	Catechin as Standard filter	Anti-Allergy Enzyme as Standard filter	AUTO VANE HORIZONTAL	SWING HORIZONTAL	Glossy White	Compact	Optional*: PAR-21MAA 7 Day Timer
24-hour Timer	i save	ACO	Auto Restart	Cooling at 46°C/10°C KA25 / 35	Cooling at -10°C	Heating at -15°C KA25 / 35	Weekly Timer Optional	Centralised On/Off Optional	M-NET connection Optional	*Requires MAD-397F-E
Self Diagnosis	Failure Recall	12m 20m KA25/35	15m 30m KA50	MXZ connection	Flare connection	VERTICAL AIR FLOW with Leveling Plate	Easy Installation			

For further information on these features please visit our web site: www.bdt.co.nz

Outdoor Units

SUZ-KA25/35VA



Dimensions (H x W x D): 550 x 800 x 285mm

SUZ-KA50VA

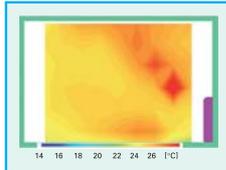


Dimensions (H x W x D): 850 x 840 x 330mm



Maximum Heat Output, Optimum Air Distribution

Perfect room temperatures at any time are realised through dual top and bottom air flow with thermostatically controlled vanes to eliminate cool drafts whilst heating. Mitsubishi Electric Inverter Control (unlike other brands) will allow maximum rated heat output indefinitely without the requirement to return to the nominal rated output. Optimum comfort conditions are guaranteed in the shortest period of time. This is vital when outdoor temperatures drop below freezing point or when the unit is first turned on.



i-save Mode



With this function, you can save the settings such as temperature, fan speed, and air flow direction for both cooling and heating operation. This function can be used to quickly return to your preferred settings. The 'i-save' operation can be used as an energy saving function. ie: If the stored 'i-save' settings are 2-3°C Cooler than the normal temperature setting when the operation is activated the room will be set to the cooler temperature and when the room is reoccupied the button can be pressed to return to the original settings.



Guaranteed heating performance down to minus 15 degrees*.

Not all heat pumps perform when they are needed most. Our range is guaranteed to effectively provide heating on those cold nights or mornings when you really need it.

* MFZ-KA25/35VA, all others -10°C

Optional: Instant comfort at your fingertips

The optional wired remote controller (PAR-21MAA*) has a weekly timer function enabling 8 separate pattern settings throughout a single day. An optional "Centralised ON/OFF Controller (MAC-821SC-E*)" can also be incorporated to regulate all connected rooms in your home (and enabling ON/OFF selection and operation status confirmation from one single controller).

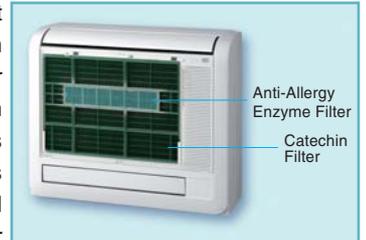
* Requires MAC-397IF-E adaptor



Cleaner and Healthier Air

The combination of Catechin + Anti-Allergy Enzyme Filters ensure effective deodorisation, active filtering and the dramatic reduction of common allergens and bacteria. This is the key to cleaner and healthier air.

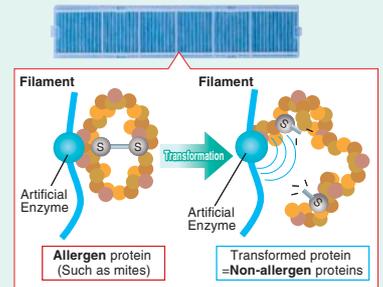
Elevating the pursuit of health-conscious air to unequalled heights. In addition to the "Catechin Filter" with deodorising effect, the "Anti-Allergy Enzyme Filter" traps dust mites and their droppings, pollen and other allergens on the filter filament, then decomposes them with artificial enzymes.*2 What's more, a sterilising agent combats bacterial and viral effects, all in all supporting a cleaner and healthier air supply.



*2 : Confirmed by the Japan Spinners Inspecting Foundation. Test numbers 007715-1, 007715-2. / Confirmed by Shinshu University.

"Anti-Allergy Enzyme Filter" mechanism

- Artificial enzyme catalyst on the filament traps the allergens.
- The artificial enzyme catalyst helps the chemical reaction with Oxygen and severs the S-S bonds.*3
- Proteins with severed S-S bonds are no longer allergen proteins.

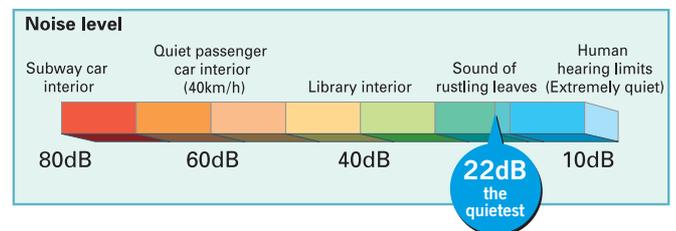


*3 : Mites and other allergen protein consist of sulphur atoms (S) that have bonded together.

Whisper Quiet Operation



Mitsubishi Electric have a long standing reputation for offering some of the quietest models in the industry. The MFZ-KA range is no exception. At only 22 dB(A) in Low Fan Speed and capable of maximum output, the MFZ-KA25 is the quietest Compact Floor Heat Pump in New Zealand. You want to feel the warmth, not hear it!



Trouble-Free Installation and Maintenance

To install the indoor unit, position with our original installation plate, then set the unit in place. Easy levelling work prevents any harm to wall surfaces. Generous pipe length, up to 30 metres*4, eliminates worries about outdoor unit distance. Loaded with automatic diagnosis function, trouble log recall mode and other sophisticated aids, troubleshooting is immediate though problems are rare.



*4 : MFZ-KA50VA

Controllers:

Optional: PAR-21MAA 7 Day Timer

Wake up or come home to optimal temperatures whilst conserving energy!

The controller allows your system to be programmed to maintain optimal temperature levels during the standard times when you are likely to be in the room. In the periods where you are unlikely to be there (such as during work hours or sleep time), the temperature can be set back to a minimum holding temperature instead of turning the system completely off.

Turning a system on and off typically uses the most energy because the system has to heat a room starting from a very low temperature. By maintaining a minimum holding temperature Mitsubishi Electric inverter technology saves you energy as the temperature only needs to be raised by a couple of degrees.

Most air conditioning systems come with a 24 hour remote controller. This means that you can only set the system up to automatically turn on and then off within a 24 hour period. This needs to be manually reactivated each time. The new Mitsubishi Electric 7 day timer allows you to program up to 8 separate Start/Stop patterns per day over a 7 day period.

For example:

- Between 10pm till 6am set temperature to 18°C
- Between 6am and 9am set temperature to 21°C
- Between 9am and 5.30pm set temperature to 18°C
- Between 5.30pm and 10pm set temperature to 21°C
- Between 10pm and 6am set temperature to 18°C

Industry First! Multi-language Display

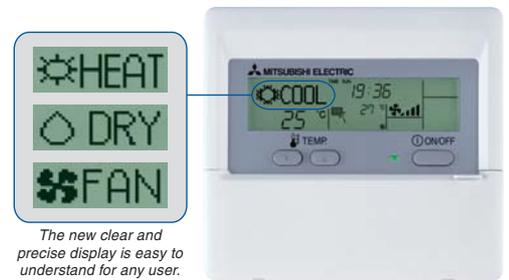
You can choose from 8 different languages.

Optional: MAC-821SC-E (Centralised ON/OFF Controller)

An optional Centralised ON/OFF Controller (MAC-821SC-E*) can also be incorporated to regulate all connected units in your home (and enabling ON/OFF selection and operation status confirmation from one single controller).

Optional: G-50 Controller (With Web Server Functions)

Mitsubishi Electric can also offer you a control system to control your Air Conditioning from your local PC. The G-50 or GB-50 gives you simple Computer control from your local Internet Explorer.



The new clear and precise display is easy to understand for any user.

Operation Control Function

Limiting the set temperature range

Air conditioning operation within a limited temperature range. The setting of the upper and lower limit temperature is possible. This prevents excessive cooling and heating leading to saving energy.

Operation locking

Preventing the random modification of setting.

Two lock functions are available:

1. Lock all buttons.
2. Lock all buttons other than ON/OFF button.



MAC-821SC-E

Note:
The PAR-21MAA and MAC-821SC-E both require the MAC-3971F-E adaptor.



Web Screen Views



G-50



GB-50

Specifications:

MFZ-KA VA Inverter Compact Floor Console Heat Pump Model (R410A)

TYPE	Compact Floor Console				
	Inverter Heat Pump				
MODEL NAME	MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA		
INDOOR UNIT	MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA		
OUTDOOR UNIT	SUZ-KA25VA	SUZ-KA35VA	SUZ-KA50VA		
COOL	Capacity [kW]	2.5	3.5	4.8	
	Input [kW]	Min-Max [kW]	0.9 - 3.4	0.9 - 3.9	0.9 - 5.4
		Min-Max [kW]	0.19 - 0.94	0.19 - 1.25	0.19 - 1.98
	EER (COP)		4.31	3.21	3.1
		Star Rating	6.0	4.5	4.5
	Sound Level [dB(A)]	In (Lo-SH)	22 / 27 / 32 / 37	23 / 28 / 33 / 38	32 / 35 / 39 / 43
		Out	46	47	53
	Rated Current (In/Out) [A]		2.83	5.0	7.0
		Max Current [A]	6.4	9.4	16.2
	Air Volume [L/s]	In (Lo-SH)	80 - 145	83 - 152	118 - 178
Out		571	557	817	
HEAT	Capacity [kW]	3.4	4.0	6.0	
	Input [kW]	Min-Max [kW]	0.9 - 5.1	0.9 - 6.2	0.9 - 7.9
		Min-Max [kW]	0.19 - 1.91	0.19 - 2.24	0.19 - 2.81
	COP		4.07	3.64	3.23
		Star Rating	6.0	5.0	4.0
	Sound Level [dB(A)]	In (Lo-SH)	22 / 27 / 32 / 37	25 / 28 / 33 / 38	32 / 35 / 39 / 44
		Out	46	48	55
	Rated Current (In/Out) [A]		4.0	5.0	8.5
		Max Current [A]	6.4	9.4	16.2
	Air Volume [L/s]	In (Lo-SH)	83 - 152	87 - 158	123 - 197
Out		539	557	817	
INDOOR	Dimensions (HxWxD) [mm]	600 x 700 x 200	600 x 700 x 200	600 x 700 x 200	
	Weight [kg]	14	14	14	
OUTDOOR	Dimensions (HxWxD) [mm]	550 x 800 x 285	550 x 800 x 285	850 x 840 x 330	
	Weight [kg]	33	37	53	
	Sound Level [dB(A)]	46	48	55	
EXT. PIPE	Diameter (Liquid/Gas) [mm]	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	
	Max. Length/Height † [m]	20 / 12	20 / 12	30 / 15	
	Chargeless [m]	7	7	7	
OPERATION RANGE Outdoor	Cooling [°C]	-10 / +46	-10 / +46	-10 / +43	
	Heating [°C]	-15 / +24	-15 / +24	-10 / +24	

Energy Ratings & Sound Levels

Energy Rating	6.0	4.5	4.5
	6.0	5.0	4.0
Cool	2.5kW 4.31 EER 22 dB(A)*	3.5kW 3.21 EER 23 dB(A)*	4.8kW 3.10 EER 32 dB(A)*
Heat	3.4kW 4.07 COP 22 dB(A)*	4.0kW 3.64 COP 25 dB(A)*	6.0kW 3.23 COP 32 dB(A)*
Heat Pump	MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA

* SPL rated at low speed

5 Year Warranty

Mitsubishi Electric Air Conditioners / Heat Pumps come with a full 5 year parts, labour and compressor warranty.

Note:

1. Rating Conditions (AS/NZS 3823)
Cooling — Indoor: 27°C DB, 19°C WB Outdoor: 35°C DB
Heating — Indoor: 20°C DB Outdoor: 7°C DB, 6°C WB
Refrigerant piping length (one way): 5 m
2. Guaranteed operating range: see specifications table
3. Dry function will not work when the room temperature is below 13°C

Power Supply: All 230V, Single Phase, 50 Hz.

*Sound Level: Low / Medium / High / Super High. (SH = Super High).

Colour: Heat pump units shown may not be colour accurate, please ensure you view an actual unit for colour matching.

† Maximum length is inclusive of height differential. i.e. (30/15) means the pipe can be 15m high and 15m across for a total length of 30m.



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