



Impressive Heating Performance from a Compact, Powerful Core

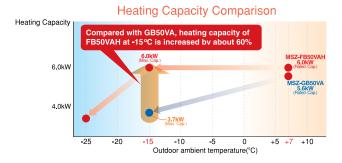
MSZ-FB VAH Series

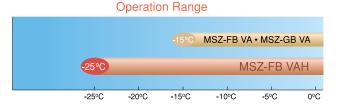
Unlike conventional air-conditioning systems, the FB VAH Series does not lose heating capacity when it is cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive "guaranteed operating range".



Unparalleled Heating Performance

Outdoor units of the MSZ-FB VAH Series are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. Compared to MSZ-GB VA, the heating capacity of the MSZ-FB50VAH is improved approximately 60% when the outdoor temperature is -15° C, and the heating operation range has been lowered to -25° C.





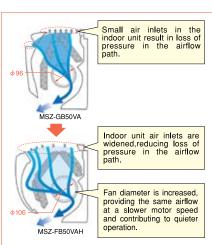
Compact, Powerful Compressor

A special manufacturing technology, the "Heat Caulking Fixing Method," has been introduced to reduce compressor size while maintaining a high compressor output. This technology enables the attachment of a powerful compressor in compact MUZ outdoor units. As a result, excellent heating performance is achieved when operating in cold outdoor environments.



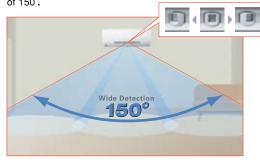
Amazingly Quiet Operation – Redesigned for performance

A larger fan diameter, wider air inlet in the upper section of the unit and a revised airflow path in size 50 models reduce noise at low fan speed by 3dB for both cooling and heating modes.



i-see Sensor

The "i-see Sensor" automatically moves from side to side, searching floor temperature over a wide area of 150°.



Conventional air conditioners control indoor temperature by using only the temperature of the intake air at the top of the room. As a result, the floor level temperature, which exerts such a keen impact on the temperature that people feel, tends to be overlooked. i-see Sensor detects the floor temperatures to ensure comfort in the living areas.

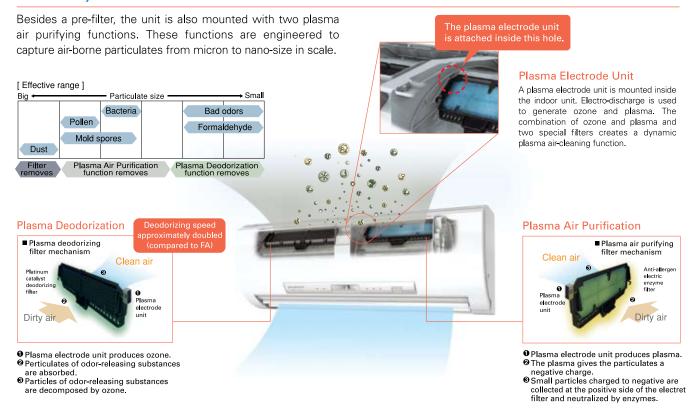


Cold air tends to sink to foot-level, which is often the cause of over-chilling. The i-see Sensor detects this foot-level temperature and adjusts the air outlet temperature to prevent over-chilling.



Warm air tends to rise up from the foot-level, which often prevents that zone from warming up. The i-see Sensor detects this foot-level temperature and adjusts the air outlet flow to prevent deficient warming.





MFZ-FB VAH Series

Optimum Air Distribution

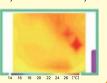
Comfy room temperatures are realized by the optimum, powerful and efficient air distribution through the upper and lower air outlets.

The upper vane angle is remote controllable, with 5 airflow direction levels (+Swing and Auto modes) and 4 wind power levels (+Auto mode). By setting the vane angle almost vertical, annoying direct wind can be avoided for better comfort.

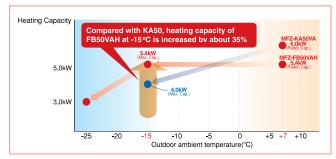


The air from both upper and lower air outlets is optimally controlled and distributed evenly to every corner of the room. In heating mode, the warm air is smartly controlled to stay at

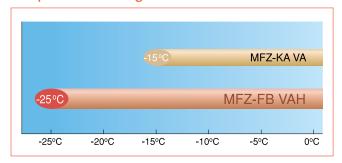
the floor level: Your feet do not feel chilled anymore!



■ Heating Capacity Comparison



■Operation Range



Specifications HEAT PUMP

Туре				Invertor Heat Pump		
Model Name				MSZ-FB35VAH	MSZ-FB50VAH	MFZ-FB50VAH
Indoor Unit				MSZ-FB35VA	MSZ-FB50VA	MFZ-FB50VA
Outdoor Unit				MUZ-FB35VAH	MUZ-FB50VAH	MUFZ-FB50VAH
Power Supply [V, Phase, Hz, Source]					230, Single, 50, Outdoor power supply	
Cooling	Capacity	Rated	kW	3.5	5.0	4.8
		Min - Max	kW	0.8 - 4.1	0.8 - 5.8	0.9 - 5.4
	Total Input	Rated	kW	0.89	1.60	1.55
	EER	EER		3.93	3.13	3.10
		Star Rating		6	5	4.5
	SPL	IN [Lo-Mid-High-SHi]*1	dB(A)	20 - 29 - 36 - 43	29 - 39 - 45 - 52	32 - 37 - 43 -48
		OUT	dB(A)	47	54	54
	Air Volume	IN [Lo-SHi]*1	L/S	77 - 187	105 - 247	118 - 221
Heating	Capacity	Rated	kW	4.0	6.0	5.4
		Min - Max	kW	1.3 - 6.5	0.9 - 8.2	0.9 - 7.9
		-15°C	kW	4.0	6.0	5.4
	Total Input	Rated	kW	0.90	1.64	1.58
	COP Star Rating			4.44	3.66	3.42
				6	5.5	5.0
	SPL	IN [Lo-Mid-High-SHi]*1	dB(A)	21 - 29 - 36 - 44	27 - 37 - 43 - 50	32 - 37 - 43 - 49
		OUT	dB(A)	50	56	56
	Air Volume	IN [Lo-SHi]*1	L/S	78 - 208	92 - 247	123 - 227
Starting Current			А	4.1	7.3	7.0
Max. Running Current			А	10.5	16.0	16.0
Indoor Unit	Input	Rated [Cooling/Heating]	W	28 / 33	60 / 60	40 / 40
	Dimensions	Height	mm	295	295	600
		Width	mm	798	798	700
		Depth	mm	257	257	200
	Weight		kg	12	12	14
Outdoor Unit	Dimensions	Height	mm	550	850	850
		Width	mm	800	840	840
		Depth	mm	285	330	330
	Weight		kg	36	55	55
Ext. Piping	Diameter	Gas/Liquid(φ)	mm	9.52 / 6.35	12.7 / 6.35	12.7 / 6.35
	Max. Length / Max. Height		m	20 / 12	30 / 15	30 / 15
Guaranteed Operating Range Cooling			°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
[Outdoor] Heating			°C	-25 ~ +24	-25 ~ +24	-25 ~ +24

^{*1:} SHi : Super High

Indoor Unit

MSZ-FB35VA MSZ-FB50VA Dimensions [HxWxD] 295x798x257mm























MUFZ-FB50VAH Dimensions [HxWxD] 850x840x330mm

Outdoor Unit

MUZ-FB35VAH Dimensions [HxWxD] 550x800x285mm



MFZ-FB50VA Dimensions [HxWxD] 600x700x200mm





















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Part number	Part name			
MAC-307FT	Plasma Deodrizing Filter			
MAC-417FT	Anti-Allergen Enzyme Filter			
MAC-093SS-E	Quick Clean Kit			
MAC-397IF-E	MA&Contact Terminal Interface			
MAC-399IF-E	M-NET Interface			
MAC-821SC-E*	Centralized ON/OFF Remote Controller			
PAR-21MAA*	Wired Remote Controller			
MAC-889SG	Air Outlet Guide			





Certificate Number 49385



Certificate Number EC97J1132

Mitsubishi Electric Shizuoka Works acquired ISO9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of quality warranties for the production of air conditioning equipment. The plant also acquired environmental management system standard ISO 14001 certification.

BLACK DIAMOND TECHNOLOGIES

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