MXZ SERIES

Advancements in the MXZ Series include efficiency and flexibility in system expansion capabilities. The best solution when requiring multi-system air conditioning needs.





R32

2-port

MXZ-2F33VF5
MXZ-2F42VF5
MXZ-2F53VF(H)5



R32

3-port 4-port

MXZ-3F54VF5
MXZ-3F68VF5
MXZ-4F72VF5
MXZ-4F80VF5



R32

4-port 5-port

MXZ-4F83VF3
MXZ-5F102VF3



R32

6-port

MXZ-6F120VF3

EXAMPLE SYSTEM



Units can be Used Even if it is Connected to Only One Indoor Unit (4F83/5F102/6F120)

This unit can be used even if it is connected to only one indoor unit. This offers more flexibility for wide range of application that satisfies various customers' demand.

No Necessity for Refrigerant Charging

Depending on the pipe length and the indoor units that are connected, conventional models have required refrigerant charging, but no R32 MXZ model needs to be charged with additional refrigerant. This eliminates troublesome work at the site of installation, and reduces the amount of additional work for the installer.

Handle Up to 6 Rooms with a Single Outdoor Unit

The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.0kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

Low Noise Mode

Low Noise Mode offers a two-stage setting: 1. Single click: Only the outdoor unit operates more quietly. 2. Double click: The remote controller beep sound is turned off, the indoor unit's lamp is dimmed, and the outdoor unit operates even more quietly. We recommend using setting 1 during the day and setting 2 at night for optimal comfort.

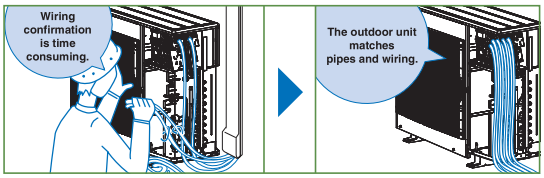
Low Noise Mode			
Click	Remote controller Beep	Indoor unit Lamp	Outdoor unit noise
1	ON	ON	LOW
2	OFF	DIM	VERY LOW

Support Functions

Wiring/Piping Correction Function* (3F54/3F68/4F72/4F80/4F83/5F102/6F120)

Simply press a single button to confirm if wiring and piping are properly connected. Wiring errors are corrected automatically when discovered. This eliminates the need to confirm complicated wiring connections when expanding the system. (For details, refer to the outdoor unit installation manual.)

* Function cannot be used when the outdoor temperature is below 0°C.
The correction process requires 10–20 minutes to complete and must be conducted with the unit set to the "Cooling" mode.



Operation Lock

To accommodate specific use applications, cooling or heating operation can be specified when setting the control board of the outdoor unit. A convenient option when a system needs to be configured for exclusive cooling or heating service. (For details, refer to the outdoor unit installation manual.)

MXZ SERIES
INVERTER MULTI

DC Inverter | Joint Lap | DC Fan Motor | PAM | 3F-4F72 Power Receiver | Grooved Piping

Type (Inverter Multi - Split Heat Pump)				Up to 2 Indoor Units			Up to 3 Indoor Units		Up to 4 Indoor Units			Up to 5 Indoor Units
Indoor Unit				Please refer to*3								
Outdoor Unit				MXZ-2F33VF5	MXZ-2F42VF5	MXZ-2F53VF5	MXZ-2F53VFH5	MXZ-3F54VF5	MXZ-3F68VF5	MXZ-4F72VF5	MXZ-4F80VF5	MXZ-4F83VF3	MXZ-5F102VF3
Refrigerant				R32									
Power Supply	Source			Outdoor power supply									
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50Hz									
Cooling	Capacity	Rated	kW	3.3	4.2	5.3		5.4	6.8	7.2	8.0	8.3	10.2
		Min - Max	kW	1.1 - 3.8	1.1 - 4.4	1.1 - 5.6		2.9 - 6.8	2.9 - 8.4	3.7 - 8.8	3.7 - 9.0	3.7 - 9.2	3.9 - 11.0
	Input	Rated	kW	0.85	0.98	1.40		1.32	1.84	1.85	2.25	1.97	2.80
	Design Load		kW	3.3	4.2	5.3		5.4	6.8	7.2	8.0	8.3	10.2
	Annual Electricity Consumption*1		kWh/a	189	169	216		222	301	311	368	342	436
	SEER*3			6.1	8.7	8.6		8.5	7.9	8.1	7.6	8.5	8.2
		Energy Efficiency Class*3		A++	A+++				A++			A+++	A++
Heating	Capacity	Rated	kW	4.0	4.5	6.4		7.0	8.6		8.8	9.3	10.5
		Min - Max	kW	1.0 - 4.1	1.0 - 4.8	1.0 - 7.0		2.6 - 9.0	2.6 - 10.6	3.4 - 10.7	3.4 - 11.0	3.4 - 11.6	4.1 - 14.0
	Input	Rated	kW	0.91	0.88	1.56		1.40	1.91	1.87	2.00		2.28
	Design Load		kW	2.7	3.5			5.2	6.8	7.0			7.4
	Declared Capacity	at reference design temperature	kW	2.2	2.7			4.2	5.7	5.6		5.8	5.9
		at bivalent temperature	kW	2.4	2.9			4.8	6.4	6.2		6.2	6.4
		at operation limit temperature	kW	1.6	2.3		2.1	3.2	4.6	4.8		4.9	
	Back Up Heating Capacity		kW	0.5	0.8			1.0	1.1	1.4		1.2	1.5
	Annual Electricity Consumption*1		kWh/a	944	1065		1089	1583	2321	2389		2087	2205
	SCOP*3			4.0	4.6		4.5	4.6	4.1			4.7	
		Energy Efficiency Class*3		A+	A++		A+	A++	A+			A++	
Max. Operating Current (Indoor+Outdoor)			A	10.0	12.2			18.0				21.4	
Outdoor Unit	Dimensions	H*W*D	mm	550 - 800 (+69) - 285 (+59.5)				710 - 840 - 330 (+66)				796 - 950 - 330	
	Weight		kg	33	37		38	58		59		61	
	Air Volume	Cooling	m³/min	30.8	28.4	32.7		31	35.4		40.3	57	63
		Heating	m³/min	32.3	33.5	34.7		31	39.6	42.7	44.1	62	75
	Sound Level (SPL)	Cooling	dB(A)	49	44	46			48		50	49	52
		Heating	dB(A)	50		51		50	53	54	55	51	56
	Sound Level (PWL)	Cooling	dB(A)	60	59	61		60	63		65	61	65
	Breaker Size		A	15				25					
Ext. Piping	Port Diameter	Liquid	mm	6.35 × 2				6.35 × 3		6.35 × 4			6.35 × 5
		Gas	mm	9.52 × 2				9.52 × 3		12.7 × 1+9.52 × 3			12.7 × 1+9.52 × 4
	Total Piping Length (max)		m	20	30			50	60			70	80
	Each Indoor Unit Piping Length (max)		m	15	20			25					
	Max. Height		m	10	15 (10)*2			15 (10)*2				15	
	Chargeless Length		m	20	30			50	60			70	80
Guaranteed Operating Range [Outdoor]		Cooling	℃	-10 ~ +46									
		Heating	℃	-15 ~ +24			-20 ~ +24	-15 ~ +24					
Refrigerant/GWP				R32/675*4								R32/675*3	
Pre-Charged Quantity		Weight	kg	0.8	1.0			2.4					
		CO_2 equivalent	t	0.54	0.68			1.62					
Max Added Quantity		Weight	kg	0.8	1.0			2.4					
		CO_2 equivalent	t	0.54	0.68			1.62					

Type (Inverter Multi - Split Heat Pump)				Up to 6 Indoor Units
Indoor Unit				Please refer to*3
Outdoor Unit				MXZ-6F120VF3
Refrigerant				R32
Power Supply	Source			Outdoor power supply
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50Hz
Cooling	Capacity	Rated	kW	12.0
		Min - Max	kW	3.5 - 14.0
	Input	Rated	kW	3.60
	Design Load		kW	12.0
	Annual Electricity Consumption*1		kWh/a	612
	SEER*3			6.8
		Energy Efficiency Class*3		A++
Heating	Capacity	Rated	kW	14.0
		Min - Max	kW	3.5 - 16.5
	Input	Rated	kW	3.31
	Design Load		kW	8.1
	Declared Capacity	at reference design temperature	kW	6.9
		at bivalent temperature	kW	7.6
		at operation limit temperature	kW	5.7
	Back Up Heating Capacity		kW	1.2
	Annual Electricity Consumption*1		kWh/a	2794
	SCOP*3			4.0
		Energy Efficiency Class*3		A+
Max. Operating Current (Indoor+Outdoor)			A	29.8
Outdoor Unit	Dimensions	H*W*D	mm	1048 - 950 - 330
	Weight		kg	87
	Air Volume	Cooling	m³/min	63
		Heating	m³/min	77
	Sound Level (SPL)	Cooling	dB(A)	55
		Heating	dB(A)	57
	Sound Level (PWL)	Cooling	dB(A)	69
	Breaker Size		A	32
Ext. Piping	Port Diameter	Liquid	mm	6.35 × 6
		Gas	mm	12.7 × 1 + 9.52 × 5
	Total Piping Length (max)		m	80
	Each Indoor Unit Piping Length (max)		m	25
	Max. Height		m	15
	Chargeless Length		m	80
Guaranteed Operating Range [Outdoor]		Cooling	℃	-10 ~ +46
		Heating	℃	-15 ~ +24
Refrigerant/GWP				R32/675*4
Pre-Charged Quantity		Weight	kg	2.4
		CO_2 equivalent	t	1.62
Max Added Quantity		Weight	kg	2.4
		CO_2 equivalent	t	1.62

*1 Energy consumption based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.
*2 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.
*3 SEER/SCOP values and energy efficiency class are measured when connectedto the indoor units listed below.

MXZ-2F33VF5	MSZ-AY15VGK(P)2 + MSZ-LN18VG3
MXZ-2F42VF5	MSZ-LN18VG3 + MSZ-LN25VG3
MXZ-2F53VF(H)5	MSZ-LN18VG3 + MSZ-LN35VG3
MXZ-3F54VF5	MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN18VG3
MXZ-3F68VF5	MSZ-LN18VG3 + MSZ-LN25VG3 + MSZ-LN25VG3
MXZ-4F72VF5	MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN18VG3
MXZ-4F80VF5	MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN25VG3
MXZ-4F83VF3	MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN25VG3 + MSZ-LN25VG3
MXZ-5F102VF3	MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN25VG3 + MSZ-LN25VG3
MXZ-6F120VF3	MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN18VG3 + MSZ-LN25VG3 + MSZ-LN25VG3

*4 This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition.