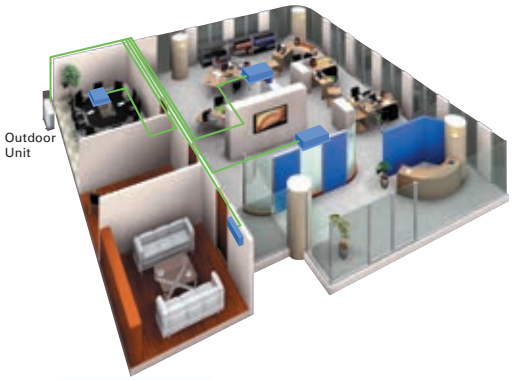
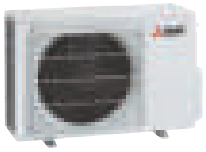
MXZ SERIES

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-2F33VF3
MXZ-2F42VF3
MXZ-2F53VF(H)3

R32

3-port 4-port 5-port

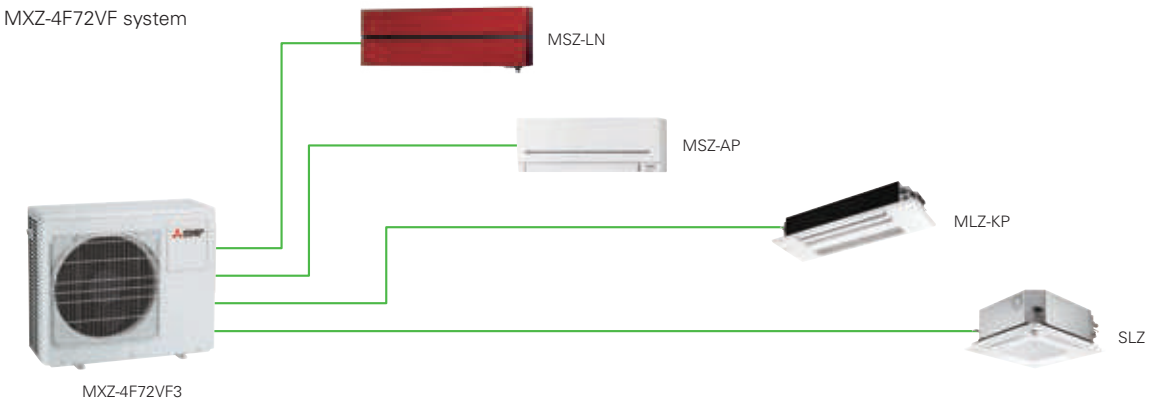
MXZ-3F54VF3
MXZ-3F68VF3
MXZ-4F72VF3
MXZ-4F80VF3
MXZ-4F83VF
MXZ-5F102VF

R32

6-port

MXZ-6F122VF

EXAMPLE SYSTEM



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 4 Rooms with a Single Outdoor Unit

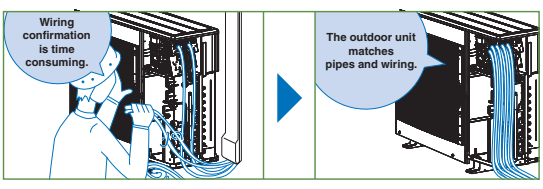
The MXZ Series for R32 offers a seven-system line-up to choose from, ranging between 3.3 and 8.0kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

Support Functions

Wiring/Piping Correction Function* (3F54/3F68/4F72/4F80)

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

Type (Inverter Multi - Split Heat Pump)					Up to 2 Indoor Units				Up to 3 Indoor Units		Up to 4 Indoor Units	
Indoor Unit					Please refer to *4							
Outdoor Unit					MXZ-2F33VF3	MXZ-2F42VF3	MXZ-2F53VF3	MXZ-2F53VFH3	MXZ-3F54VF3	MXZ-3F68VF3	MXZ-4F72VF3	MXZ-4F80VF3
Refrigerant					R32*1							
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	5.3	5.4	6.8	7.2	8.0
	Input	Rated		kW	0.85	0.98	1.40	1.40	1.32	1.84	1.85	2.25
	EER*4				3.88	4.29	3.79	3.79	4.10	3.70	3.89	3.56
	Design Load			kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.0
	Annual Electricity Consumption*2			kWh/a	189	169	216	216	222	301	311	368
	SEER*4				6.1	8.7	8.6	8.6	8.5	7.9	8.1	7.6
		Energy Efficiency Class*4			A++	A+++	A+++	A+++	A+++	A++	A++	A++
Heating (Average Season)	Capacity	Rated		kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	8.8
	Input	Rated		kW	0.91	0.88	1.56	1.56	1.40	1.91	1.87	2.00
	COP*4				4.40	5.11	4.10	4.10	5.00	4.50	4.60	4.40
	Design Load			kW	2.7	3.5	3.5	3.5	5.2	6.8	7.0	7.0
	Declared Capacity	at reference design temperature		kW	2.2	2.7	2.7	2.7	4.2	5.7	5.6	5.6
		at bivalent temperature		kW	2.4	2.9	2.9	2.9	4.7	6.4	6.2	6.2
		at operation limit temperature		kW	1.6	2.3	2.3	2.1	3.2	4.6	4.8	4.8
	Back Up Heating Capacity			kW	0.5	0.8	0.8	0.8	1.0	1.1	1.4	1.4
	Annual Electricity Consumption*2			kWh/a	944	1065	1065	1089	1583	2321	2389	2389
	SCOP*4				4.0	4.6	4.6	4.5	4.6	4.1	4.1	4.1
		Energy Efficiency Class*4			A+	A++	A++	A+	A++	A+	A+	A+
Operating Current (max)				A	10.0	12.2	12.2	12.2	18.0	18.0	18.0	18.0
Outdoor Unit	Dimensions		H × W × D	mm	550 - 800 (+69) - 285 (+59.5)				710 - 840 (+30) - 330 (+66)			
	Weight			kg	33	37	37	38	58	58	59	59
	Air Volume		Cooling	m^3/min	31.5	28.4	32.7	32.7	31	35.4	35.4	40.3
			Heating	m^3/min	32.3	33.5	34.7	34.7	31	39.6	42.7	44.1
	Sound Level (SPL)		Cooling	dB(A)	49	44	46	46	46	48	48	50
			Heating	dB(A)	50	50	51	51	50	53	54	55
	Sound Level (PWL)		Cooling	dB(A)	60	59	61	61	60	63	63	65
	Operating Current		Cooling	A	4.3 - 4.1 - 3.9	4.9 - 4.7 - 4.5	6.5 - 6.2 - 6.0	6.5 - 6.2 - 6.0	6.0 - 5.7 - 5.5	8.4 - 8.0 - 7.7	8.5 - 8.1 - 7.8	10.3 - 9.9 - 9.5
			Heating	A	4.6 - 4.4 - 4.2	4.4 - 4.3 - 4.1	7.5 - 7.1 - 6.8	7.5 - 7.1 - 6.8	6.4 - 6.1 - 5.9	8.8 - 8.4 - 8.0	8.6 - 8.2 - 7.9	9.2 - 8.8 - 8.4
	Breaker Size			A	15	15	15	15	25	25	25	25
Ext. Piping	Port Diameter		Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35 × 2 / 9.52 × 2	6.35 × 2 / 9.52 × 2	6.35 × 2 / 9.52 × 2	6.35 × 3 / 9.52 × 3	6.35 × 3 / 9.52 × 3	6.35 × 4 / 12.7 × 1 + 9.52 × 3	
	Total Piping Length (max)			m	20	30	30	30	50	60	60	60
	Each Indoor Unit Piping Length (max)			m	15	20	20	20	25	25	25	25
	Max. Height			m	10	15(15)*3	15(15)*3	15(15)*3	15(15)*3	15(15)*3	15(15)*3	15(15)*3
	Chargeless Length			m	20	30	30	30	50	60	60	60
Guaranteed Operating Range (Outdoor)			Cooling	℃	–10 ~ +46							
			Heating	℃	–15 ~ +24							

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere.
This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.

*2 Energy consumption based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

*3 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 15m.

*4 EER/COP, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.

MXZ-2F33VF3	MSZ-AP15VG + MSZ-LN18VG2
MXZ-2F42VF3	MSZ-LN18VG2 + MSZ-LN25VG2
MXZ-2F53VF(H)3	MSZ-LN18VG2 + MSZ-LN35VG2
MXZ-3F54VF3	MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2
MXZ-3F68VF3	MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
MXZ-4F72VF3	MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2
MXZ-4F80VF3	MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2

MXZ SERIES
INVERTER MULTI

Type (Inverter Multi - Split Heat Pump)				Up to 4 Indoor Units	Up to 5 Indoor Units	Up to 6 Indoor Units
Indoor Unit					Please refer to *4	
Outdoor Unit				MXZ-4F83VF	MXZ-5F102VF	MXZ-6F122VF
Refrigerant				R32*1	R32*1	R32*1
Power Supply	**Source**			Outdoor power supply		
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50Hz		
Cooling	**Capacity**	Rated	kW	8,3	10,2	12,2
		Min-Max	kW	3.7 - 9.2	3.9 - 11.0	3.5 - 14.0
	Input	Rated	kW	1,97	2,80	3,66
	EER*4			4,21	3,64	3,33
	Design Load		kW	8,3	10,2	12,2
	Annual Electricity Consumption*2		kWh/a	342	436	559
	SEER*4			8,5	8,2	303,0%
		Energy Efficiency Class*4		A+++	A++	-
Heating (Average Season)	**Capacity**	Rated	kW	9,3	10,5	14,0
		Rated (-7°C)	kW	6,2	6,4	7,17
		Rated (-7°C)	kW	6,20	6,40	7,17
		Max (-15°C)	kW	4,90	4,90	5,20
		Min-Max	kW	3.4 - 11.6	4.1 - 14.0	3.5 - 16.0
	Input	Rated	kW	2,00	2,28	3,31
	COP*4			4,65	4,60	4,23
	Design Load		kW	7,0	7,4	8,1
	Declared Capacity	at reference design temperature	kW	5,80	5,90	6,50
		at bivalent temperature	kW	6,20	6,40	7,17
		at operation limit temperature	kW	4,90	4,90	5,20
	Back Up Heating Capacity		kW	1,20	1,50	1,60
	Annual Electricity Consumption*2		kWh/a	2087	2205	2438
	SCOP*4			4,7	4,7	183,1%
		Energy Efficiency Class*4		A++	A++	-
Max. Operating Current (Indoor+Outdoor)			A	21,4	21,4	29,8
Outdoor Unit	**Dimensions**	H x W x D	mm	796-950-330	796-950-330	1048-950-330
	Weight		kg	62	62	87
	Air Volume	Cooling	m^3/min	57	63	63
		Heating	m^3/min	62	75	77
	Sound Level (SPL)	Cooling	dB(A)	49	52	55
		Heating	dB(A)	51	56	57
	Sound Level (PWL)	Cooling	dB(A)	61	65	69 / 74
	Operating Current	Cooling	A	9.1 - 8.7 - 8.3	12.9 - 12.3 - 11.8	16.8 - 16.1 - 15.4
		Heating	A	9.2 - 8.8 - 8.4	10.5 - 10.0 - 9.6	15.2 - 14.5 - 13.9
	Starting current (Total)		A	8,8	12,3	16,1
	Breaker Size		A	25	25	32
Ext. Piping	**Port Diameter**	Liquid	mm	6.35x4	6.35x5	6.35x6
		Gas	mm	12.7 x 1+9.52 x 3	12.7 x 1+9.52 x 4	12.7 x 1+9.52 x 5
	Total Piping Length (max)		m	70	80	80
	Each Indoor Unit Piping Length (max)		m	25	25	25
	Max. Height		m	15	15	15
	Chargeless Length		m	70	80	80
Guaranteed Operating Range [Outdoor]		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO 2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
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