


MULTI SPLIT








SERIES



SELECTION

Choose from seven types of indoor units and twelve outdoor units that can run up to six indoor units each. Create the system that best matches room shapes and number of rooms.

STEP 1	SELECT INDOOR UNITS			
Select the indoor unit to be installed in each room.				
<p>Wall-mounted</p>  MSZ-FH  MSZ-EF  MSZ-SF (15-20)  MSZ-SF (25-50)  MSZ-GF	<p>Floor-standing</p>  MFZ-KJ	<p>Cassette</p>  SLZ-KF  MLZ-KA  PLA		<p>Ceiling-suspended</p>  PCA <p>Ceiling-concealed</p>  SEZ-KD  PEAD

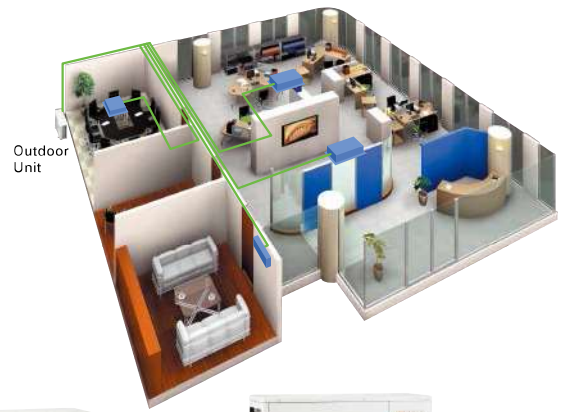
STEP 2	SELECT OUTDOOR UNITS			
Select the best outdoor unit based on the number of indoor units and overall system capacity required.				
<p>2-port up to 2 indoor units</p>  <p>MXZ-2D33VA MXZ-2D42VA2 MXZ-2D53VA(H)2</p>	<p>3-port up to 3 indoor units</p>  <p>MXZ-3E54VA MXZ-3E68VA</p>	<p>4-port up to 4 indoor units</p>  <p>MXZ-4E72VA MXZ-4E83VA</p>	<p>HYPER HEATING*</p> <p>2-port up to 2 indoor units</p>  <p>MXZ-2E53VAHZ</p>	
<p>5-port up to 5 indoor units</p>  <p>MXZ-5E102VA</p>		<p>6-port up to 6 indoor units</p>  <p>MXZ-6D122VA</p>		<p>4-port up to 4 indoor units</p>  <p>MXZ-4E83VAHZ</p>

*Refer to page 105 and page 113 for detailed information.

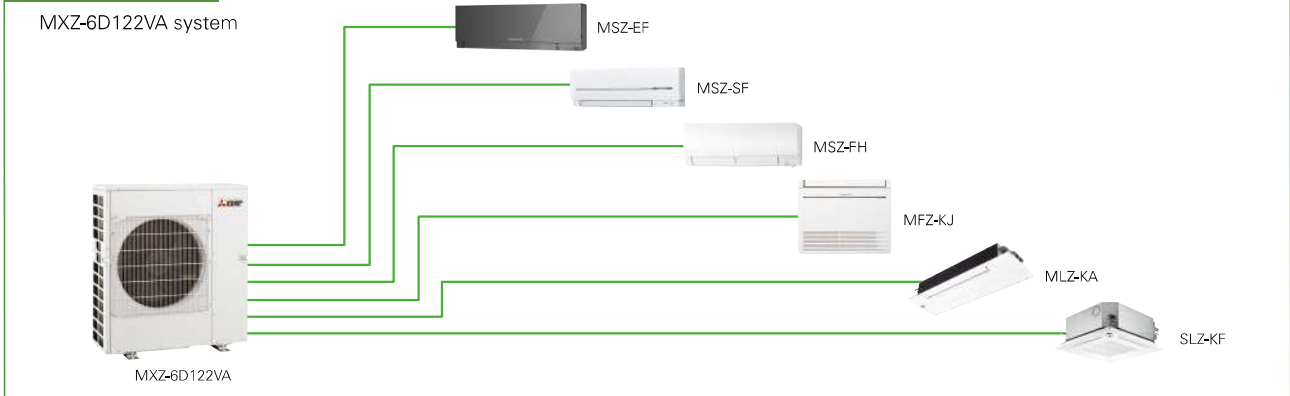
STEP 3	CHECK SYSTEM COMPATIBILITY
Possible combinations depends on the outdoor unit chosen. Please check the following points.	
Check Indoor Units	Refer to the "Indoor Unit Compatibility Table" to check if the indoor units selected can be used with the outdoor unit selected. (Indoor units not listed in the table cannot be used.)
Check Indoor Unit Capacity Combination	Refer to the "Combination Table" to check if the capacity combination of the indoor unit selected is connectable. (Combinations not listed cannot be connected.)
<p>If the desired combination cannot be found, please change either the indoor or outdoor unit to match one of the combinations shown in the tables.</p>	

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.



EXAMPLE SYSTEM



Handle Up to 6 Rooms with a Single Outdoor Unit

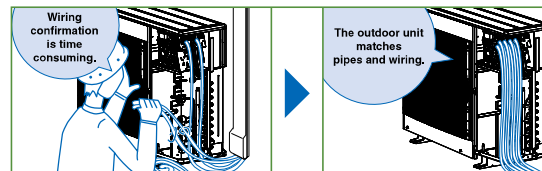
The MXZ Series offers a ten-system line-up to choose from, ranging between 3.3 and 12.2kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

Support Functions

Wiring/Piping Correction Function* (3E54/3E68/4E72/4E83/5E102/6D122)

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.



Ampere Limit Adjustment*

(4E83/5E102/6D122)

Dipswitch settings can be used to adjust the maximum electrical current for operation. This function is highly recommended for managing energy costs. (For details, refer to the outdoor unit installation manual.)

* Maximum capacity is lowered with the use of this function.

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		Up to 5 Indoor Units
Indoor Unit			Please refer to (*4)									
Outdoor Unit			N MXZ-2D33VA	N MXZ-2D42VA2	N MXZ-2D53VA2	N MXZ-2D53VAH2	N MXZ-3E54VA	N MXZ-3E68VA	N MXZ-4E72VA	N MXZ-4E83VA	N MXZ-5E102VA	
Refrigerant			R410A**1									
Power Supply			Outdoor power supply									
Outdoor (V/Phase/Hz)			230 / Single / 50									
Cooling	Capacity	Rated	kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.3	10.2
		Min - Max	kW	1.1 - 3.8	1.1 - 4.4	1.1 - 5.6	1.1 - 5.6	2.9 - 6.8	2.9 - 8.4	3.7 - 8.8	3.7 - 9.2	3.9 - 11.0
	Input (Indoor+Outdoor)	Rated	kW	0.90	1.00	1.54	1.54	1.35	2.19	2.25	2.44	3.15
	Design Load		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.3	10.2
	Annual Electricity Consumption*2		kWh/a	211	216	262	262	295	425	443	460	537
Heating (Average Season)	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	9.3	10.5
		Min - Max	kW	1.0 - 4.1	1.0 - 4.8	1.0 - 7.0	1.0 - 7.0	2.6 - 9.0	2.6 - 10.6	3.4 - 10.7	3.4 - 11.6	4.1 - 14.0
	Input (Indoor+Outdoor)	Rated	kW	0.96	0.93	1.70	1.70	1.59	2.38	2.28	2.00	2.34
	Design Load		kW	2.7	3.2	4.5	4.5	5.0	6.8	7.0	8.7	8.9
	Declared Capacity	at reference design temperature	kW	2.1	2.7	3.7	3.6	4.0	5.4	5.6	7.1	7.3
	at bivalent temperature	kW	2.4	3.0	4.0	4.0	4.49	6.0	6.2	7.8	7.9	
	at operation limit temperature	kW	1.7	2.3	3.3	3.0	3.17	4.4	4.7	6.0	6.3	
Back Up Heating Capacity		kW	0.6	0.5	0.8	0.9	1.0	1.4	1.4	1.6	1.6	
Annual Electricity Consumption*2		kWh/a	926	1065	1507	1546	1751	2466	2516	2884	2958	
SCOP**4			4.1	4.2	4.2	4.1	4.0	3.9	3.9	4.2	4.2	
	Energy Efficiency Class**4		A+	A+	A+	A+	A+	A	A	A+	A+	
Max. Operating Current (Indoor+Outdoor)		A	10.0	12.2	12.2	12.2	18.0	18.0	18.0	21.4	21.4	
Outdoor Unit	Dimensions	H x W x D	mm	550 - 800(+69) - 285(+59.5)				710 - 840(+30) - 330(+66)		796 - 950 - 330		
	Weight		kg	32	37	37	38	58	58	59	62	63
	Air Volume	Cooling	m ³ /min	32.9	27.7	32.9	32.9	42.1	42.1	42.1	55.6	65.1
		Heating	m ³ /min	33.7	33.3	33.3	33.3	43.0	43.0	43.0	55.6	68.0
	Sound Level (SPL)	Cooling	dB(A)	49	46	50	50	50	50	50	49	52
		Heating	dB(A)	50	51	53	53	53	53	53	51	56
	Sound Level (PWL)	Cooling	dB(A)	63	60	64	64	64	64	64	61	65
Heating		dB(A)	63	60	64	64	64	64	64	61	65	
Breaker Size		A	10	15	15	15	25	25	25	25	25	
Ext. Piping	Diameter	Liquid	mm	6.35 x 2	6.35 x 2	6.35 x 2	6.35 x 2	6.35 x 3	6.35 x 3	6.35 x 4	6.35 x 4	6.35 x 5
		Gas	mm	9.52 x 2	9.52 x 2	9.52 x 2	9.52 x 2	9.52 x 3	9.52 x 3	12.7x1+9.52x3	12.7x1+9.52x3	12.7x1+9.52x4
	Total Piping Length (max)	m	20	30	30	30	50	60	60	70	80	
	Each Indoor Unit Piping Length (max)	m	15	20	20	20	25	25	25	25	25	
	Max. Height	m	10	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	15 (10)*3	
Chargeless Length	m	20	20	20	20	40	40	40	40	25	0	
Guaranteed Operating Range [Outdoor]	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
	Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	

N. Please refer to the NOTE below.

Type (Inverter Multi - Split Heat Pump)			Up to 6 Indoor Units						
Indoor Unit			Please refer to (*5)						
Outdoor Unit			MXZ-6D122VA						
Refrigerant			R410A**1						
Power Supply			Outdoor power supply						
Outdoor (V/Phase/Hz)			230 / Single / 50						
Cooling	Capacity	Rated	kW	12.2					
		Min - Max	kW	3.5 - 13.5					
	Input**5	Rated	kW	3.66					
	EER**5			3.33					
	EEL Rank			A					
Heating	Capacity	Rated	kW	14.0					
		Min - Max	kW	3.5 - 16.5					
	Input**5	Rated	kW	3.31					
	COP**5			4.23					
	EEL Rank			A					
Operating Current (max)**5		A	26.8						
Outdoor Unit	Dimensions	H x W x D	mm	1048-950-330					
	Weight		kg	88					
	Air Volume	Cooling	m ³ /min	63.0					
		Heating	m ³ /min	77.0					
	Sound Level (SPL)	Cooling	dB(A)	55					
		Heating	dB(A)	57					
	Sound Level (PWL)	Cooling	dB(A)	69					
Heating		dB(A)	69						
Breaker Size		A	32						
Ext. Piping	Diameter	Liquid	mm	6.35 x 6					
		Gas	mm	12.7x1+9.52x5					
	Total Piping Length (max)	m	80						
	Each Indoor Unit Piping Length (max)	m	25						
	Max. Height	m	15 (10)*3						
Chargeless Length	m	30							
Guaranteed Operating Range [Outdoor]	Cooling	°C	-10 ~ +46						
	Heating	°C	-15 ~ +24						

NOTE

When connecting the MFZ-KJ series indoor unit(s) to this outdoor unit, charge additional refrigerant according to the instructions in the diagram below.

MXZ-2D33VA

No. of MFZ-KJ indoor units	Pipe length (L)	Maximum amount of refrigerant
1 unit	~20m 100g additional (Total 1250g)	1250g
2 units	Not available (Only one MFZ-KJ series indoor unit can be connected.)	

MXZ-2D42VA2 MXZ-2D53VA2 MXZ-2D53VAH2

No. of MFZ-KJ indoor units	Pipe length (L)	Maximum amount of refrigerant
1 unit	~20m 100g additional (Total 1400g)	1600g
2 units	~30m 200g additional (Total 1500g)	1700g

MXZ-3E54VA

No. of MFZ-KJ indoor units	Pipe length (L)	Maximum amount of refrigerant
1 unit	~40m 100g additional (Total 2800g)	3000g
2 units	~50m 200g additional (Total 2900g)	3100g
3 units	~60m 300g additional (Total 3000g)	3200g

MXZ-3E68VA MXZ-4E72VA

No. of MFZ-KJ indoor units	Pipe length (L)	Maximum amount of refrigerant
1 unit	~40m 100g additional (Total 2800g)	3200g
2 units	~60m 200g additional (Total 2900g)	3300g
3 units	~80m 300g additional (Total 3000g)	3400g

*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 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO₂ 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.

*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 10m.

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

MXZ-2D33VA → MSZ-SF15VA + MSZ-EF18VE
 MXZ-2D42VA2 → MSZ-EF18VE + MSZ-EF25VE
 MXZ-2D53VA(H)2 → MSZ-EF18VE + MSZ-EF35VE
 MXZ-3E54VA → MSZ-EF18VE + MSZ-EF18VE
 MXZ-3E68VA → MSZ-EF18VE + MSZ-EF25VE + MSZ-EF25VE
 MXZ-4E72VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE + MSZ-EF18VE
 MXZ-4E83VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF25VE
 MXZ-5E102VA → MSZ-EF18VE + MSZ-EF18VE + MSZ-EF22VE + MSZ-EF22VE + MSZ-EF22VE

*5 Power input and operating current (max) figures are for outdoor unit only

*6 EER/COP, EEL rank, values and energy efficiency class are measured when connected to the indoor units listed below.
 MXZ-6D122VA → MSZ-EF22VE x 6