

Explanation of Terminology

Maximum piping length:

This is the **maximum allowable length of the refrigerant piping**. The amount of refrigerant pipe used cannot be longer than the length specified.

Total length:

The maximum allowable combined length of all the refrigerant piping between the outdoor unit and indoor unit(s).

Outdoor Unit - Indoor Unit:

The maximum allowable length of the refrigerant piping between the outdoor unit and indoor units installed when multiple units are connected to a single outdoor unit. This distance limitation refers to the maximum length between the outdoor unit and the farthest indoor unit.

Pipe length difference from distribution pipe:

The maximum allowable difference in refrigerant piping length from the distribution pipe to the farthest indoor unit and from the distribution pipe to the closest indoor unit when multiple indoor units are connected to a single outdoor unit using a distribution pipe.

Indoor Unit - Distribution Pipe:

The maximum allowable length of the refrigerant piping between indoor units and the distribution pipe when multiple indoor units are connected to a single outdoor unit.

Maximum height difference:

This is the **maximum allowable height difference**. It is necessary to install the air conditioning system so that the height distance is no more than the difference specified. (Specified differences may vary if the outdoor unit is installed higher or lower than the indoor units).

Outdoor unit - Indoor unit:

The maximum allowable difference in height between the outdoor unit and indoor units when installed (when multiple indoor units are connected to a single outdoor unit, this distance limitation refers to the maximum height difference between the outdoor unit and an indoor unit).

Indoor unit - Indoor unit:

The maximum allowable difference between the heights of indoor units when multiple indoor units are connected to a single outdoor unit.

Maximum number of bends:

This is the **maximum allowable number of bends in the refrigerant piping**. The total number of bends in the refrigerant piping used cannot exceed the number specified.

Total number:

The maximum allowable number of bends for all refrigerant piping between the outdoor unit and indoor units.

Outdoor unit - Indoor unit:

The maximum allowable number of bends between the outdoor unit and each indoor unit when multiple indoor units are connected to a single outdoor unit.

Appendix

Indoor Unit		Please refer below ^(*)					
Outdoor Unit		MXZ-3HA50VF3	MXZ-3F54VF5	MXZ-4F80VF5	MXZ-4F83VF3	MXZ-4F83VFH23	MXZ-3F68VF5
Refrigerant/GWP		R32/675 ^(*)					
Power Supply		Outdoor power supply					
Cooling		220-230-240V/Single/50Hz					
Capacity	Rated	kW	5.00	5.40	6.80	7.80	8.30
	Input	Rated	kW	1.47	1.32	2.20	2.65
	Design load	Rated	kW	5.00	5.40	6.80	7.80
	Annual electricity consumption ^(*)	Rated	kWh/a	257.00	222.00	345.00	404.00
	SEER ^(*)	Rated		6.80	8.50	6.90	6.80
		Energy efficiency class ^(*)	A++				
Heating	Capacity	Rated	kW	6.00	7.00	8.60	9.00
	Input	Rated	kW	1.56	1.40	2.60	2.30
	Design load	Rated	kW	3.90	5.20	7.00	2.74
	Annual electricity consumption ^(*)	Rated	kWh/a	1324.00	1583.00	2492.00	2336.00
	SEER ^(*)	Rated		4.02	4.60	3.93	4.20
		Energy efficiency class ^(*)	A+				
Outdoor Unit	Dimensions	H*W*D	mm	710 - 840 - 330 (+66)	550 - 800 (+69) - 285 (+59.5)	710 - 840 - 330 (+66)	796 - 950 - 330
	Weight		kg	57	58	59	62
	Air Volume	Cooling	m ³ /min	31.0	31.0	40.3	57
	Sound Level (SPL)	Cooling	dB (A)	29.1	31.0	44.1	62
	Sound Level (PWL)	Cooling	dB (A)	61	60	65	61
Ext. Piping	Port diameter	Liquid	mm	6.35x3	6.35x3	6.35x4	6.35x3
	Port diameter	Gas	mm	9.52x3	9.52x3	12.7x1+9.52x3	9.52x3
	Total piping length (Max.)		m	50	60	70	60
	Each indoor unit piping length (Max.)		m	15 (10) ^(*)	15	15	15 (10) ^(*)
	Chargeless length		m	40	50	60	60
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Indoor Unit		Please refer below ^(*)					
Outdoor Unit		MXZ-4F72VF5	MXZ-5F102VF3	MXZ-6F120VF3	PXZ-4F75VG2	PXZ-5F85VG2	
Refrigerant/GWP		R32/675 ^(*)					
Power Supply		Outdoor power supply					
Cooling		220-230-240V/Single/50Hz					
Capacity	Rated	kW	6.40	8.30	6.40	7.80	
	Input	Rated	kW	1.99	2.78	1.99	2.65
	Design load	Rated	kW	6.40	8.30	6.40	7.80
	Annual electricity consumption ^(*)	Rated	kWh/a	297.00	450.00	473.00	297.00
	SEER ^(*)	Rated		7.54	6.46	6.14	7.54
		Energy efficiency class ^(*)	A++				
Heating	Capacity	Rated	kW	8.60	9.00	8.60	9.00
	Input	Rated	kW	2.23	2.30	2.23	2.30
	Design load	Rated	kW	7.00	9.00	7.00	9.00
	Annual electricity consumption ^(*)	Rated	kWh/a	2406.00	2423.00	3159.00	2406.00
	SEER ^(*)	Rated		4.07	4.05	3.99	4.07
		Energy efficiency class ^(*)	A+				
Outdoor Unit	Dimensions	H*W*D	mm	710 - 840 - 330 (+66)	796 - 950 - 330	1048 - 950 - 330	710 - 840 - 330 (+66)
	Weight		kg	59	62	87	59
	Air Volume	Cooling	m ³ /min	35.4	63	77	35.4
	Sound Level (SPL)	Cooling	dB (A)	42.7	75	77	42.7
	Sound Level (PWL)	Cooling	dB (A)	54	56	57	54
Ext. Piping	Port diameter	Liquid	mm	6.35x4	6.35x5	6.35x6	6.35x4
	Port diameter	Gas	mm	12.7x1+9.52x3	12.7x1+9.52x4	12.7x1+9.52x5	12.7x1+9.52x3
	Total piping length (Max.)		m	60	80	15	60
	Each indoor unit piping length (Max.)		m	15 (10) ^(*)	15	15	15
	Chargeless length		m	60	80	60	70
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

(*)1 This combination data is the SPEC when the following indoor units are connected, and is registered with Eurovent.

MXZ-3HA50VF3 → MSZ-HR25VFx2
MXZ-4F80VF5 → MSZ-A42VGK(P)2/MSZ-LN35VG3
MXZ-4F83VF3 → MSZ-A42VGK(P)2/MSZ-A42VGK(P)2
MXZ-4F83VFH23 → MSZ-A42VGK(P)2/MSZ-A42VGK(P)2
MXZ-2F42VF5 → MSZ-A20VGK(P)2
MXZ-3F68VF5 → MSZ-A20VGK/MSZ-A50VG
MXZ-4F72VF5 → MSZ-LN35VG3/MSZ-LN35VG3
PXZ-4F75VG2 → MSZ-LN35VG3/MSZ-LN35VG3
PXZ-5F85VG2 → MSZ-A42VGK(P)2/MSZ-A42VGK(P)2
MXZ-5F102VF3 → MSZ-A42VGK(P)2/MSZ-A50VGK(P)2
MXZ-6F120VF3 → MSZ-A42VGK(P)2/MSZ-A42VGK(P)2

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

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

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

(*)5 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.