

Piping Installation

M SERIES

Single type

Series	Class <Outdoor unit>	Maximum Piping Length(m)		Maximum Height Difference(m)		Maximum Number of Bends	
		Total length(A)		Outdoor unit - Indoor unit(H)		Total number	
MSZ-F MFZ-KJ	25 / 35	20		12		10	
	50	30		15		10	
MSZ-E	25 / 35 / 42	20		12		10	
	50	30		15		10	
MSZ-S	25 / 35 / 42	20		12		10	
	50	30		15		10	
MSZ-G	60 / 71	30		15		10	
MSZ-H	25 / 35 / 50	20		12		10	

S SERIES & P SERIES

Single type

Series	Class <Outdoor unit>	Maximum Piping Length(m)		Maximum Height Difference(m)		Maximum Number of Bends	
		Total length(A)		Outdoor unit - Indoor unit(H)		Total number	
ZUBADAN (PUHZ-SHW)	80 / 112 / 140	75		30		15	
POWER INVERTER (PUHZ-ZRP/RP)	35 / 50 / 60 / 71	50		30		15	
	100 / 125 / 140	75		30		15	
	200 / 250	100		30		15	
STANDARD INVERTER (PUHZ-P & SUZ)	25 / 35	20		12		10	
	50 / 60 / 71	30		30		10	
	100 / 125 / 140	50		30		15	
	200 / 250	70		30		15	

Twin type

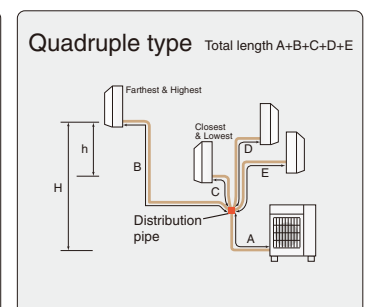
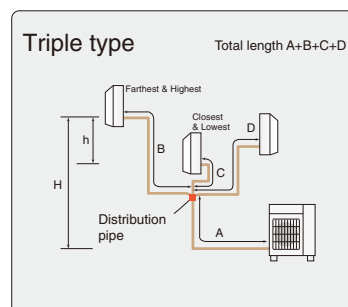
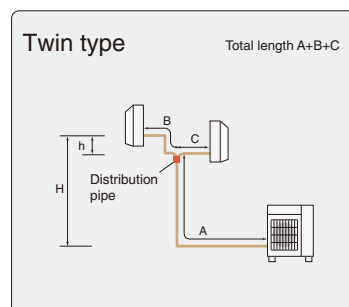
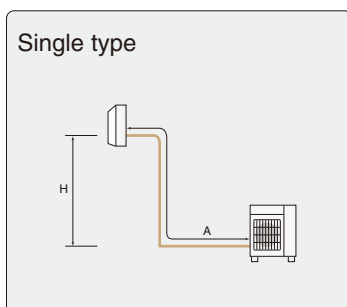
Series	Class <Outdoor unit>	Maximum Piping Length(m)			Maximum Height Difference(m)			Maximum Number of Bends Total number
		Total length A+B+C	Pipe length difference from distribution pipe B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h		
ZUBADAN (PUHZ-SHW)	80 / 112 / 140	75	8	20	30	1	15	
POWER INVERTER (PUHZ-ZRP/RP)	71	50	8	20	30	1	15	
	100 / 125 / 140	75	8	20	30	1	15	
	200 / 250	120	8	30	30	1	15	
STANDARD INVERTER (PUHZ-P)	100 / 125 / 140	50	8	20	30	1	15	
	200 / 250	70	8	30	30	1	15	

Triple type

Series	Class <Outdoor unit>	Maximum Piping Length(m)			Maximum Height Difference(m)			Maximum Number of Bends Total number
		Total length A+B+C+D	Pipe length difference from distribution pipe B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h		
POWER INVERTER (PUHZ-ZRP/RP)	140	75	8	20	30	1	15	
	200 / 250	120	8	30	30	1	15	
STANDARD INVERTER (PUHZ-P)	140	50	8	20	30	1	15	
	200 / 250	70	8	28	30	1	15	

Quadruple type

Series	Class <Outdoor unit>	Maximum Piping Length(m)			Maximum Height Difference(m)			Maximum Number of Bends Total number
		Total length A+B+C+D+E	Pipe length difference from distribution pipe B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h		
POWER INVERTER (PUHZ-RP)	200 / 250	120	8	30	30	1	15	
STANDARD INVERTER (PUHZ-P)	200 / 250	70	8	22	30	1	15	



MXZ SERIES

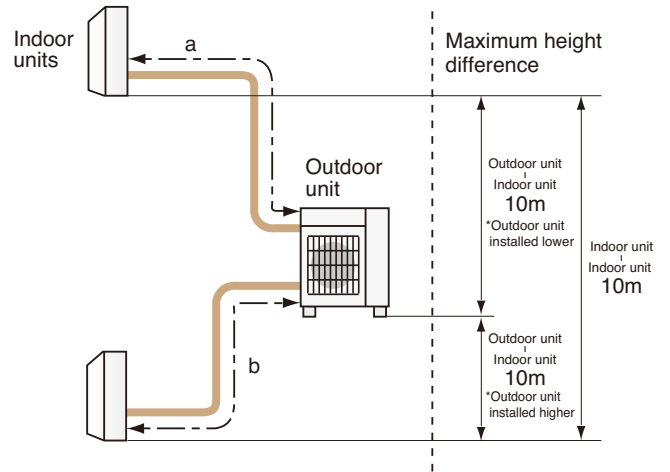
MXZ-2D33VA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	15m
Total length (a+b)	20m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	15
Total number (a+b)	20

* When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please contact Mitsubishi Electric.

Regarding MXZ-2D33, the second unit should be a different type in the case of selecting one MFZ-KJ.



MXZ-2D42VA

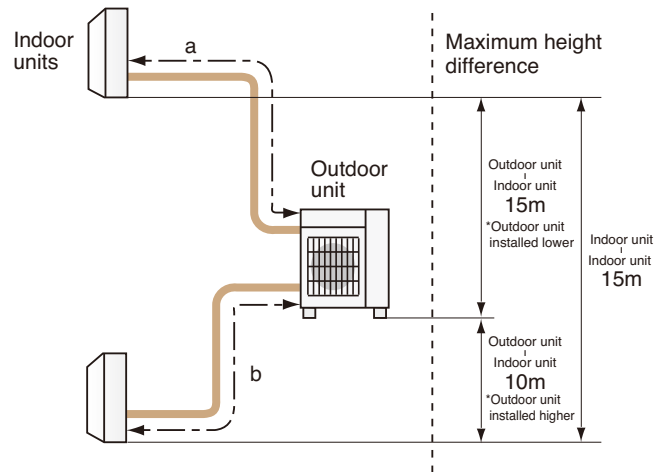
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	20
Total number (a+b)	30

MXZ-2D53VA(H)

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	20
Total number (a+b)	30



* When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please contact Mitsubishi Electric.

MXZ-3D54VA2

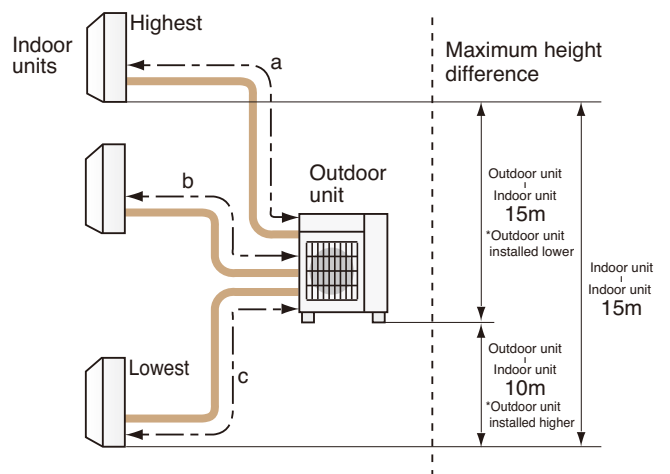
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	50m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c)	25
Total number (a+b+c)	50

MXZ-3D68VA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c)	25m
Total length (a+b+c)	60m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c)	25
Total number (a+b+c)	60



* When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please contact Mitsubishi Electric.

MXZ-4D72VA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	60m

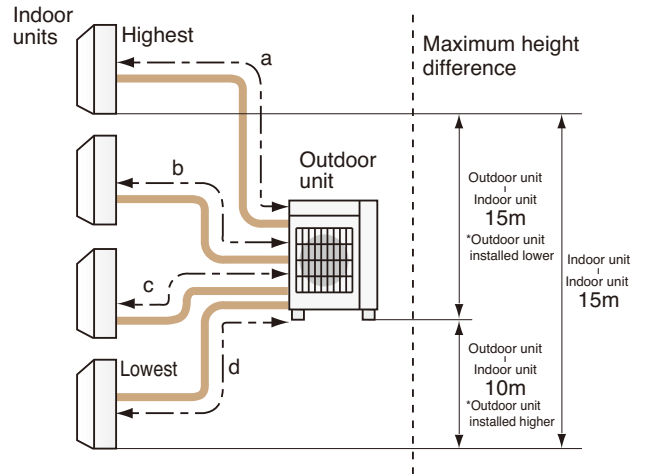
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

* When connecting the MFZ-KJ Series indoor unit, additional refrigerant is required. For details, please contact Mitsubishi Electric.

MXZ-4D83VA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	70m

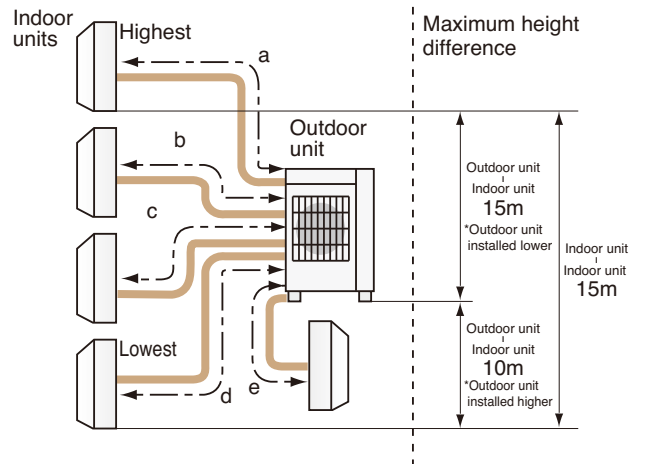
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	70



MXZ-5D102VA

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e)	25m
Total length (a+b+c+d+e)	80m

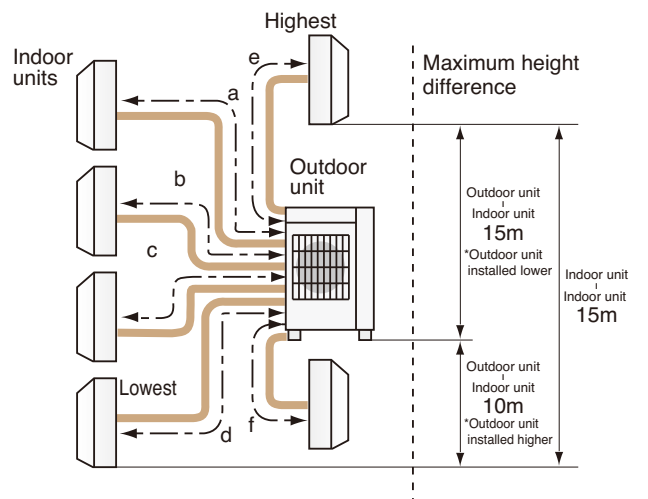
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



MXZ-6C122VA

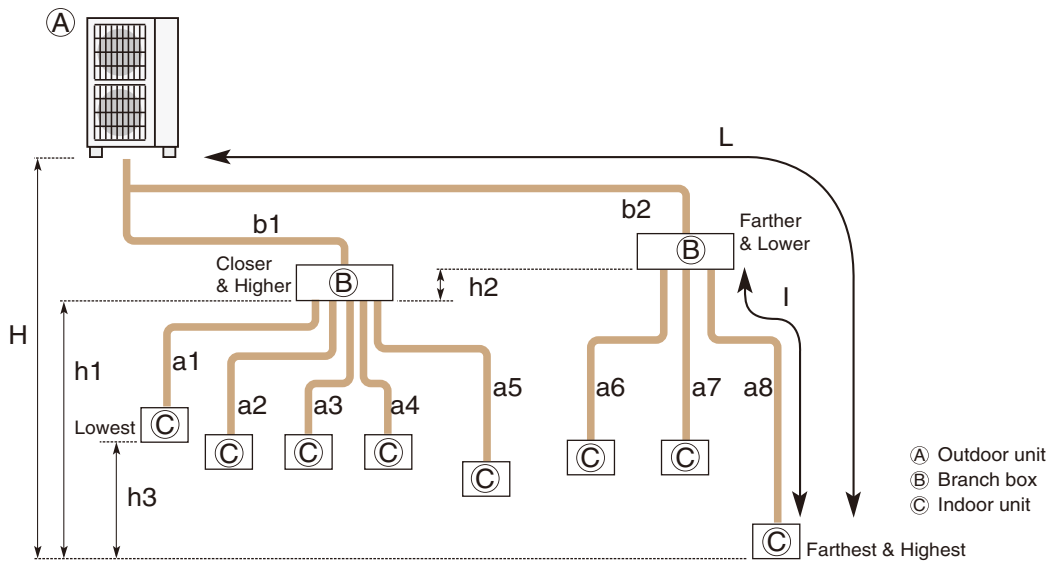
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25m
Total length (a+b+c+d+e+f)	80m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25
Total number (a+b+c+d+e+f)	80



MXZ SERIES

MXZ-8B140VA/YA, 8B160VA/YA



Maximum Piping Length	Total length	$b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 115\text{m}$
	Outdoor unit - Branch box - Indoor unit (L)	$b2 + a8 \leq 70\text{m}$ ($b2 \leq 55\text{m}$, $a8 \leq 15\text{m}$)
	Outdoor unit - Branch box	$b1 + b2 \leq 55\text{m}$
	Branch box - Indoor unit (I)	$a8 \leq 15\text{m}$
	Total pipe length after the branch box	$a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 \leq 60\text{m}$
Maximum Height Difference	Outdoor unit - Indoor unit (H) ※1	$H \leq 30\text{m}$ (when outdoor unit is set higher than indoor unit) $H \leq 20\text{m}$ (when outdoor unit is set lower than indoor unit)
	Branch box - Indoor unit (h1)	$h1 + h2 \leq 15\text{m}$
	Branch box - Branch box (h2)	$h2 \leq 15\text{m}$
	Indoor unit - Indoor unit (h3)	$h3 \leq 12\text{m}$
Maximum Number of Bends	Total number	$ b1 + a1 , b1 + a2 , b1 + a3 , b1 + a4 , b1 + a5 , b2 + a6 , b2 + a7 , b2 + a8 \leq 15$

※1 Branch box should be placed on a plane between the outdoor unit and indoor units.

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.

Outdoor unit - Branch box:

The maximum allowable length of the refrigerant piping between the branch box and outdoor unit when a branch box is used to connect multiple indoor units to a single outdoor unit.

Branch box - Indoor unit:

The maximum allowable length of the refrigerant piping between the branch box and the indoor unit farthest from it when a branch box is used to connect multiple indoor units to a single outdoor unit.

Outdoor unit - Branch box - Indoor unit:

The maximum allowable length of the refrigerant piping from the outdoor unit to the farthest indoor unit when a branch box is used to connect multiple indoor units with a single outdoor unit.

Total pipe length after the branch box:

The maximum allowable length of the refrigerant piping between the branch box and all indoor units combined when a branch box is used to connect multiple indoor units with 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.

Branch box - Indoor unit:

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

Branch box - Branch box:

The maximum allowable difference between the heights of the branch boxes when two branch boxes are used to connect multiple indoor units 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.