

R410A M Series Quick Reference Guide 2014

M series

Model Reference	Capacity (kW)				Nominal & UK SHF	UK Sensible Cooling (kW)	System Power Input Heating / Cooling (kW)		Nominal COP / EER (BSEN14511)	SCOP / SEER (BSEN14825)	Airflow (m³/min) Sil-Lo-Mi-Hi-SupHi Heating / Cooling	Sound Pressure Level (dBA) Sil-Lo-Mi-Hi-SupHi Heating / Cooling	Starting Current (A) Outdoor	System Running Current (A) Heating / Cooling [MAX]	Phase	Mains Cable			Pipe Size mm(in)		Max Pipe Length (m)	Max Pipe Height (m)	Weight (kg) Indoor / Outdoor	Dimensions (mm) WxDxH Indoor / Outdoor	Fuse Rating (A) Indoor / Outdoor	
	Nominal Heating	Nominal Cooling	UK Heating	UK Cooling			Nominal	UK								Indoor	Outdoor	Inter-connecting Cable	Gas	Liquid						
R410A Classic Wall Mounted Inverter Systems																										
MSZ-HJ25VA MUZ-HJ25VA		3.15 (0.9-4.4)	2.5 (0.9-3.0)	2.61 (0.74-3.65)	2.48 (0.89-2.97)	0.89	2.23	0.87 / 0.73	0.79 / 0.58	3.62 / 3.42	3.8 / 5.1	3.4-5.5-7.5-9.9 / 3.8-5.5-7.3-9.5	23-30-37-43 / 22-30-37-43	4.2	4.2 / 3.7 [5.8]	Single	3 Core 220-240v	Fed by Indoor Unit	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	9 / 24	799x232x290 / 699x249x530	10 / 10
MSZ-HJ35VA MUZ-HJ35VA		3.6 (0.9-4.8)	3.15 (1.0-3.7)	2.99 (0.74-3.98)	3.12 (0.99-3.67)	0.87	2.71	0.99 / 1.04	0.90 / 0.83	3.62 / 3.03	3.8 / 5.1	3.4-5.5-7.5-10.3 / 3.8-5.7-7.8-10.9	23-30-37-44 / 22-31-37-45	4.9	4.8 / 4.9 [6.5]	Single	3 Core 220-240v	Fed by Indoor Unit	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	9 / 25	799x232x290 / 699x249x530	10 / 10
R410A Wall Mounted Inverter Systems																										
MSZ-SF20VA N/A Multi-Split only		-	-	-	-	-	-	-	-	-	-	37.44-5.6-6.9 / 35-39.4-6.5-5.6	21-26-30-35 / 21-26-30-35	-	-	Single	Fed by Outdoor Unit	-	-	9.52 (3/8")	6.35 (1/4")	-	-	7.7	760x168x250	6 / -
MSZ-SF25VE MUZ-SF25VE		3.2 (1.0-4.1)	2.5 (0.9-3.4)	2.66 (0.83-3.41)	2.5 (0.89-3.37)	0.92	2.30	0.78 / 0.60	0.71 / 0.49	4.10 / 4.17	4.4 / 7.6	35.41-6.78-10.3 / 35.41-5.5-7.2-9.1	21-24-34-39-45 / 21-24-30-36-42	3.9	3.9 / 3.2 [8.4]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	10 / 31	798x195x299 / 800x285x550	6 / 10
MSZ-SF35VE MUZ-SF35VE		4.0 (1.3-4.6)	3.5 (1.1-3.8)	3.32 (1.1-3.82)	3.47 (1.1-3.77)	0.80	2.78	1.03 / 1.08	0.94 / 0.87	3.88 / 3.24	4.4 / 7.2	35.41-6.78-11.0 / 35.41-5.6-7.2-9.1	21-24-34-40-46 / 21-24-30-36-42	4.9	4.7 / 4.9 [8.5]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	10 / 31	798x195x299 / 800x285x550	6 / 10
MSZ-SF50VE MUZ-SF50VE		5.8 (1.4-7.3)	5.0 (1.4-5.4)	4.8 (1.16-6.06)	4.96 (1.38-5.35)	0.70	3.47	1.70 / 1.66	1.55 / 1.34	3.41 / 3.01	4.4 / 7.2	56.64-8.98-12.0 / 56.62-7.0-8.2-9.9	30-33-38-43-49 / 30-33-36-40-45	7.6	7.6 / 7.4 [12.3]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	12.7 (1/2")	6.35 (1/4")	30	15	10 / 55	798x195x299 / 840x330x880	6 / 16
MSZ-GF60VE MUZ-GF60VE		6.8 (2.0-9.3)	6.0 (1.4-7.5)	5.65 (1.66-7.73)	5.95 (1.38-7.44)	0.79	4.70	1.81 / 1.79	1.65 / 1.45	3.76 / 3.41	4.3 / 6.8	98.11-13.14-15.6-18.3 / 98.11-13.14-15.6-18.3	29-37-41-45-49 / 29-37-41-45-49	8.0	8.0 / 7.9 [14.5]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	15.88 (5/8")	6.35 (1/4")	30	15	16 / 50	1100x238x325 / 840x330x880	6 / 20
MSZ-GF71VE MUZ-GF71VE		8.1 (2.2-9.9)	7.1 (2.0-8.7)	6.73 (1.83-8.23)	7.0 (1.98-8.63)	0.78	5.46	2.23 / 2.13	2.03 / 1.73	3.63 / 3.33	4.2 / 6.8	102.11-15.13-15.4-17.8 / 97.11-13.13-15.4-17.8	30-37-41-45-49 / 30-37-41-45-49	9.8	9.8 / 9.3 [16.6]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	15.88 (5/8")	9.52 (3/8")	30	15	16 / 53	1100x238x325 / 840x330x880	6 / 20
R410A Wall Mounted High COP Inverter Systems																										
MSZ-FH25VE MUZ-FH25VE		3.2 (1.8-5.5)	2.5 (1.4-3.5)	2.65 (1.49-4.57)	2.48 (1.38-3.47)	0.95	2.36	0.58 / 0.49	0.52 / 0.40	5.52 / 5.15	5.1 / 9.1	40.47-6.4-9.2-13.2 / 39.47-6.3-8.6-11.6	20-24-29-36-44 / 20-23-29-36-42	2.9	2.9 / 2.6 [9.6]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	13.5 / 37	925x234x305 / 800x285x550	6 / 10
MSZ-FH35VE MUZ-FH35VE		4.0 (1.0-6.3)	3.5 (0.8-4.0)	3.3 (0.8-5.2)	3.47 (0.79-3.97)	0.84	2.91	0.80 / 0.82	0.76 / 0.69	5.00 / 4.27	5.1 / 8.9	40.47-6.4-9.2-13.2 / 39.47-6.3-8.6-11.6	21-24-29-36-44 / 21-24-29-36-42	3.9	3.9 / 3.8 [9.6]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	13.5 / 37	925x234x305 / 800x285x550	6 / 10
R410A Wall Mounted Zen Inverter Systems																										
MSZ-EF25VE2-B/S/W MUZ-EF25VE		3.2 (1.1-4.2)	2.5 (1.2-3.4)	2.65 (0.91-3.49)	2.48 (1.19-3.37)	0.92	2.28	0.70 / 0.55	0.64 / 0.44	4.57 / 4.59	4.7 / 8.5	40.46-6.28-11.9 / 40.46-6.38-10.5	21-24-29-37-45 / 21-23-29-36-42	3.5	3.5 / 2.9 [7.3]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	11.5 / 30	895x195x299 / 800x285x550	6 / 10
MSZ-EF35VE2-B/S/W MUZ-EF35VE		4.0 (1.8-5.5)	3.5 (1.4-4.0)	3.32 (1.5-4.57)	3.47 (1.38-3.97)	0.80	2.178	0.96 / 0.91	0.87 / 0.73	4.19 / 3.85	4.6 / 8.5	40.46-6.28-12.7 / 40.46-6.38-10.5	21-24-30-38-46 / 21-24-29-36-42	4.4	4.4 / 4.2 [8.5]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	11.5 / 35	895x195x299 / 800x285x550	6 / 10
MSZ-EF50VE2-B/S/W MUZ-EF50VE		5.8 (1.6-7.5)	5.0 (1.4-5.4)	4.82 (1.33-6.23)	4.96 (1.39-5.36)	0.71	3.52	1.57 / 1.56	1.42 / 1.25	3.71 / 3.21	4.5 / 7.2	64.73-9.011-13.12 / 58.68-7.9-9.3-11.0	30-33-37-43-49 / 30-33-36-40-43	7.0	7.0 / 6.9 [12.4]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	12.7 (1/2")	6.35 (1/4")	30	15	11.5 / 54	895x195x299 / 840x330x880	6 / 16
R410A Floor Mounted Inverter Systems																										
MFZ-KJ25VE		3.4 (1.2-4.6)	2.5 (0.5-3.4)	2.85 (0.99-3.82)	2.5 (0.49-3.35)	0.66	1.65	0.77 / 0.54	0.70 / 0.43	4.42 / 4.63	4.5 / 8.5	39.51-6.27-7.7-9.7 / 39.49-5.97-1.8-2	19-25-30-35-41 / 20-25-30-35-39	3.60	3.6 / 2.7 [9.4]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	15 / 37	750x215x600 / 800x285x550	6 / 10
MFZ-KJ35VE		4.3 (1.2-5.5)	3.5 (0.5-3.7)	3.5 (0.99-4.57)	3.47 (0.49-3.67)	0.65	2.26	1.11 / 0.94	1.00 / 0.75	3.91 / 3.72	4.4 / 8.1	39.51-6.27-7.7-9.7 / 39.49-5.97-1.8-2	19-25-30-35-41 / 20-25-30-35-39	5.10	5.1 / 4.2 [9.4]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	9.52 (3/8")	6.35 (1/4")	20	12	15 / 37	750x215x600 / 800x285x550	6 / 10
MFZ-KJ50VE		6.0 (2.2-8.2)	5.0 (1.6-5.7)	5.0 (1.8-6.8)	4.96 (1.58-5.65)	0.63	2.99	1.61 / 1.41	1.47 / 1.13	3.73 / 3.55	4.3 / 6.5	60.74-9.411-16.140 / 56.67-8.0-9.3-10.6	29-35-40-45-50 / 27-31-35-39-44	7.10	7.1 / 6.2 [14.0]	Single	Fed by Outdoor Unit	3 Core 220-240v	4 Core	12.7 (1/2")	6.35 (1/4")	30	15	15 / 55	750x215x600 / 840x330x880	6 / 16
R410A Multi-Split Inverter Systems																										
MXZ-2D53VA		6.4 (1.0-7.0)	5.3 (1.1-5.6)	5.3 (0.83-5.81)	5.2 (1.09-5.55)	-	-	1.70 / 1.54	1.54 / 1.23	3.76 / 3.44	4.2 / 7.1	33.3 / 32.9	53 / 50 (outdoor)	7.6	7.6 / 6.9 [12.2]	Single	-	3 Core 220-240v	4 Core	-	-	30 20 per Indoor	15 ^{*1}	37	800x285x550	15
MXZ-3D54VA2		7.0 (2.6-9.0)	5.4 (2.9-6.8)	5.8 (2.16-7.47)	5.3 (2.87-6.74)	-	-	1.59 / 1.39	1.44 / 1.11	4.40 / 3.88	3.9 / 5.8	43.0 / 42.1	53 / 50 (outdoor)	7.0	7.0 / 6.1 [18.0]	Single	-	3 Core 220-240v	4 Core	-	-	50 25 per Indoor	15 ^{*1}	57	840x330x710	25
MXZ-4D72VA		8.6 (3.4-10.7)	7.1 (3.7-8.8)	7.1 (2.82-8.89)	7.0 (3.67-8.72)	-	-	2.28 / 2.25	2.07 / 1.80	3.77 / 3.20	3.9 / 5.7	43.0 / 42.1	53 / 50 (outdoor)	10.0	10.0 / 9.9 [18.0]	Single	-	3 Core 220-240v	4 Core	-	-	60 25 per Indoor	15 ^{*1}	58	840x330x710	25
MXZ-4D83VA		9.4 (3.4-11.6)	8.3 (3.7-9.2)	7.8 (2.82-9.63)	8.2 (3.67-9.12)	-	-	2.42 / 2.83	2.20 / 2.26	3.72 / 2.93	3.9 / 5.2	43.8 / 42.1	50 / 49 (outdoor)	12.4	10.6 / 12.4 [20.4]	Single	-	3 Core 220-240v	4 Core	-	-	70 25 per Indoor	15 ^{*1}	69	900x320x915	25
MXZ-5D102VA		10.5 (4.1-14.0)	10.2 (3.9-11.0)	8.7 (3.40-11.63)	10.1 (3.86-10.90)	-	-	2.90 / 3.91	2.63 / 3.12	3.62 / 2.61	3.8 / 5.3	59.3 / 56.6	55 / 53 (outdoor)	17.2	12.7 / 17.2 [21.4]	Single	-	3 Core 220-240v	4 Core	-	-	80 25 per Indoor	15 ^{*1}	70	900x320x915	25
MXZ-6C122VA		14.0 (3.5-16.5)	12.2 (3.5-13.5)	11.6 (2.90-13.71)	12.1 (3.47-13.39)	-	-	3.81 / 4.05	3.46 / 3.21	3.67 / 3.01	-	69.9 / 59.5	57 / 55 (outdoor)	18.0	16.7 / 17.8 [30]	Single	-	3 Core 220-240v	4 Core	-	-	80 25 per Indoor	15 ^{*1}	87	900x320x1070	32
MXZ-8B140VA		16.0	14.0	13.3	13.9	-	-	3.90 / 3.79	3.55 / 3.03	3.91 / 3.52	-	100	52 / 47-50 (outdoor)	14.0	17.05 / 16.55 [29.5]	Single	-	3 Core 220-240v	4 Core	-	-	115 70 per Indoor	30 ^{*2}	129	950x330x1350	40
MXZ-8B160YA		18.0	15.5	14.95	15.4	-	-	4.80 / 4.64	4.37 / 3.71	3.61 / 3.21	-	106	54 / 48-51 (outdoor)	7.0	7.00 / 6.77 [13]	3	-	5 Core 380-415v	4 Core	-	-	115 70 per Indoor	30 ^{*2}	139	950x330x1350	25

Nominal conditions cooling: indoor 27°C DB, 19°C WB; outdoor 35°C DB, 24°C WB.
 Nominal conditions heating: indoor 20°C DB; outdoor 7°C DB, 6°C WB.
 UK Conditions: Summer; indoor 21°C DB, 15°C WB; outdoor 27°C DB.
 UK Conditions: Winter; indoor 21°C DB; outdoor -1°C WB.

All fuse ratings are based on British Standard (BS88 - HRC)

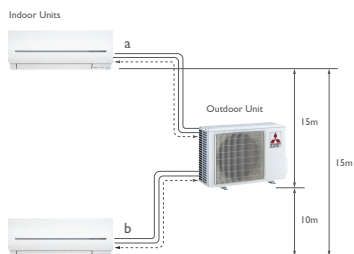
Notes: *1 - 10 if outdoor higher than indoor
 *2 - Outdoor to indoor; 20 if outdoor lower than indoor

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MXZ Multi-Split Piping Restrictions

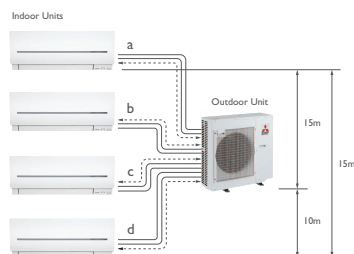
MXZ-2D53VA



Max Refrigerant Piping Length

Piping length per indoor unit (a, b)	20m
Total piping length (a+b)	30m
Max No. of bends per unit	20
Total No. of bends	30

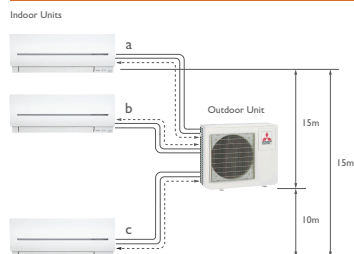
MXZ-4D83VA



Max Refrigerant Piping Length

Piping length per indoor unit (a, b, c, d)	25m
Total piping length (a+b+c+d)	70m
Max No. of bends per unit	25
Total No. of bends	70

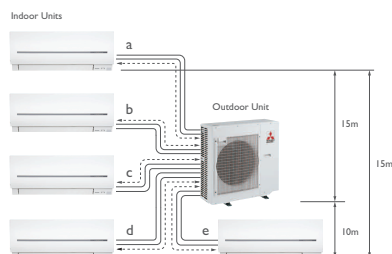
MXZ-3D54VA2



Max Refrigerant Piping Length

Piping length per indoor unit (a, b, c)	25m
Total piping length (a+b+c)	50m
Max No. of bends per unit	25
Total No. of bends	50

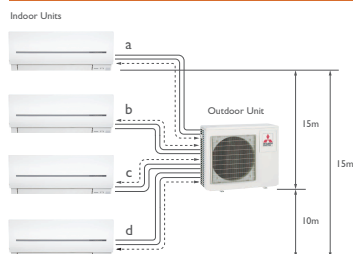
MXZ-5D102VA



Max Refrigerant Piping Length

Piping length per indoor unit (a, b, c, d, e)	25m
Total piping length (a+b+c+d+e)	80m
Max No. of bends per unit	25
Total No. of bends	80

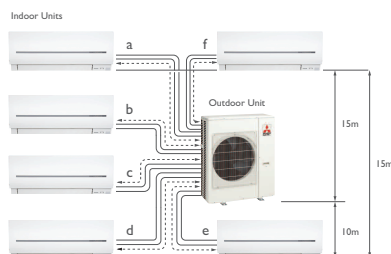
MXZ-4D72VA



Max Refrigerant Piping Length

Piping length per indoor unit (a, b, c, d)	25m
Total piping length (a+b+c+d)	60m
Max No. of bends per unit	25
Total No. of bends	60

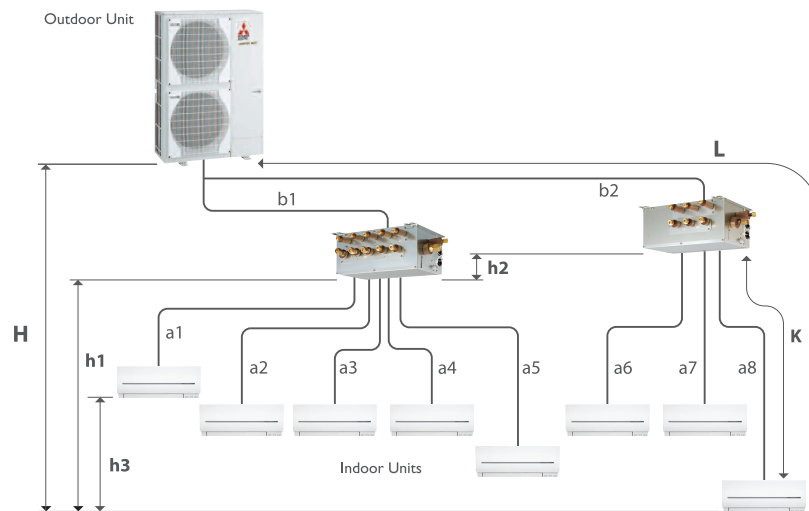
MXZ-6C122VA



Max Refrigerant Piping Length

Piping length per indoor unit (a, b, c, d, e, f)	25m
Total piping length (a+b+c+d+e+f)	80m
Max No. of bends per unit	25
Total No. of bends	80

MXZ-8BI40VA / MXZ-8BI60YA



Permissible length (one way)	Total piping length	b1+b2+a1+a2+a3+a4+a5+a6+a7+a8 ≤ 115m
	Furthest piping length (L)	b2+a8 ≤ 70m (b2 ≤ 55m, a8 ≤ 15m)
	Piping length between outdoor unit and branch boxes	b1+b2 ≤ 55m
	Furthest piping length after branch box (K)	a8 ≤ 15m
Permissible height difference (one way)	Total piping length between branch boxes and indoor units	a1+a2+a3+a4+a5+a6+a7+a8 ≤ 60m
	Between indoor / outdoor section (H)	H ≤ 30m (In case of outdoor unit higher than indoor unit) H ≤ 20m (In case of outdoor unit lower than indoor unit)
	Between branch box / indoor unit section (h1)	h1+h2 ≤ 15m
	Between each branch box (h2)	h2 ≤ 15m
Max number of bends per unit (outdoor to indoor)	Between each indoor unit (h3)	h3 ≤ 12m
		15

Drain Size O.D.

Wall Mounted units
= 16mm

Floor Mounted units
= 16mm

Additional Refrigerant Charge

R410A Refrigerant Charge (g)									
Model	Pipe Length								Total Pipe Length (m)
	20m	30m	40m	50m	60m	70m	80m	90m	115m
MXZ-2D53VA	1300	200	-	-	-	-	-	-	30
MXZ-3D54VA2	-	-	2700	200	-	-	-	-	50
MXZ-4D72VA	-	-	2700	200	400	-	-	-	60
MXZ-4D83VA	-	-	3500	200	400	600	-	-	70
MXZ-5D102VA	-	-	4000	200	400	600	800	-	80
MXZ-6C122VA	-	-	4800	-	-	200	400	-	80
MXZ-8BI40VA	-	-	8500	600	1400	1400	2200	2200	115
MXZ-8BI60YA	-	-	8500	600	1400	1400	2200	2200	115

R410A Refrigerant Charge (g)					
Model	Pipe Length				Max Pipe Length (m)
	7m	8m	9m	10m	
MUZ-HJ25VA	700	20	40	60	20
MUZ-HJ35VA	720	20	40	60	20

R410A Refrigerant Charge (g)									
Model	Pipe Length								Max Pipe Length (m)
	7m	8m	9m	10m	15m	20m	25m	30m	
MUZ-SF25VE	700	30	60	90	240	390	-	-	20
MUZ-SF35VE	800	30	60	90	240	390	-	-	20
MUZ-SF50VE	1550	20	40	60	160	260	360	460	30
MUZ-GF60VE	-	-	-	1550	100	200	300	400	30
MUZ-GF71VE	-	-	-	1900	275	550	825	1100	30
MUZ-FH25VE	1150	90	120	150	300	450	-	-	20
MUZ-FH35VE	1150	90	120	150	300	450	-	-	20
MUZ-EF25VE	800	30	60	90	240	390	-	-	20
MUZ-EF35VE	1150	30	60	90	240	390	-	-	20
MUZ-EF50VE	1450	20	40	60	160	260	360	460	30
MUFZ-KJ25VE	1100	30	60	90	240	390	-	-	20
MUFZ-KJ35VE	1100	30	60	90	240	390	-	-	20
MUFZ-KJ50VE	1500	-	-	60	160	260	360	460	30

Factory Charged



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Effective as of July 2014