



MXZ MULTI-ZONE TECH MANUAL

Personal Comfort Just Got Smarter



Rev. July 2020

GENSCO

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Equipment Selection

MULTIZONE HYPER-HEAT COMPATIBILITY CHART

Mitsubishi MXZ-H2i Hyper-Heat Multi-Zone Equipment Matching		↓ INDOOR MCA	MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2	MXZ-4C36NAHZ2	MXZ-5C42NAHZ2	MXZ-8C48NAHZ2
OUTDOOR MCA →			29	30	30	42	42	42
OUTDOOR MOCP →			40	40	40	50	50	50
WALL MOUNTED UNITS	MSZ-EF09***U1	1.00	■	■	■	■	■	■
	MSZ-EF12***U1	1.00	■	■	■	■	■	■
	MSZ-EF15***U1	1.00	■	■	■	■	■	■
	MSZ-EF18***U1	1.00		■	■	■	■	■
	MSZ-FH06NA	1.00	■	■	■	■	■	■
	MSZ-FH09NA	1.00	■	■	■	■	■	■
	MSZ-FH12NA	1.00	■	■	■	■	■	■
	MSZ-FH15NA	1.00	■	■	■	■	■	■
	MSZ-FH18NA(2)	1.00		■	■	■	■	■
	MSZ-GL06NA-U1	1.00	■	■	■	■	■	■
	MSZ-GL09NA-U1	1.00	■	■	■	■	■	■
	MSZ-GL12NA-U1	1.00	■	■	■	■	■	■
	MSZ-GL15NA-U1	1.00	■	■	■	■	■	■
	MSZ-GL18NA-U1	1.00		■	■	■	■	■
	MSZ-GL24NA-U1	1.00			■	■	■	■
MULTI POSITION AHU	SVZ-KP12NA	3.00	■	■	■	■	■	■
	SVZ-KP18NA	3.00		■	■	■	■	■
	SVZ-KP24NA	3.00			■	■	■	■
	SVZ-KP30NA	4.13				■	■	■
	SVZ-KP36NA	4.13				■	■	■
CM	PCA-A24KA	1.00			■			
FLOOR MOUNT	MFZ-KJ09NA-U1	1.00	■	■	■	■	■	■
	MFZ-KJ12NA-U1	1.00	■	■	■	■	■	■
	MFZ-KJ15NA-U1	1.00	■	■	■	■	■	■
	MFZ-KJ18NA-U1	1.00		■	■	■	■	■

Equipment Selection

Mitsubishi MXZ-H2i Hyper-Heat Multi-Zone Equipment Matching		INDOOR MCA ↓	MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2	MXZ-4C36NAHZ2	MXZ-5C42NAHZ2	MXZ-8C48NAHZ2
		OUTDOOR MCA →	29	30	30	42	42	42
		OUTDOOR MOC →	40	40	40	50	50	50
DUCTED UNITS	SEZ-KD09NA4R1	1.00	■	■	■	■	■	■
	SEZ-KD12NA4R1	1.00	■	■	■	■	■	■
	SEZ-KD15NA4R1	1.00	■	■	■	■	■	■
	SEZ-KD18NA4R1	1.00		■	■	■	■	■
	PEAD-A09AA7	1.45	■	■	■	■	■	■
	PEAD-A12AA7	1.45	■	■	■	■	■	■
	PEAD-A15AA7	1.69	■	■	■	■	■	■
	PEAD-A18AA7	1.69		■	■	■	■	■
	PEAD-A24AA7	2.63			■	■	■	■
	PEAD-A30AA7	2.73				■	■	■
	PEAD-A36AA7	3.30				■	■	■
CEILING CASSETTE	SLZ-KF09NA	0.25	■	■	■	■	■	■
	SLZ-KF12NA	0.30	■	■	■	■	■	■
	SLZ-KF15NA	0.40		■	■	■	■	■
	PLA-A12BA4 (EA7)	1.00				■	■	■
	PLA-A18BA4 (EA7)	1.00		■	■	■	■	■
	PLA-A24BA4 (EA7)	1.00				■	■	■
	PLA-A30BA4 (EA7)	1.00				■	■	■
	PLA-A36BA4 (EA7)	2.00				■	■	■
	MLZ-KP09NA-U1	1.00	■	■	■	■	■	■
	MLZ-KP12NA-U1	1.00	■	■	■	■	■	■
	MLZ-KP18NA-U1	1.00		■	■	■	■	■
BB	PAC-MKA31BC & PAC-MKA32BC	1.00				■	■	■
BB	PAC-MKA51BC & PAC-MKA52BC	1.00				■	■	■
BRANCH BOX REQUIRED MXZ-4C36NAHZ - 5C42NAHZ - 8C48NAHZ								
SEE NEXT PAGE FOR ALL CONNECTION RULES								

Equipment Selection

MULTIZONE COMPATIBILITY CHART

Mitsubishi MXZ - Multi-Zone Equipment Matching		↓ INDOOR MCA	MXZ-2C20NA2	MXZ-3C24NA2	MXZ-3C30NA2	MXZ-4C36NA2	MXZ-5C42NA2	MXZ-8C48NA2	MXZ-8C60NA2
OUTDOOR MCA →			17	22	22	22	32	37	46
OUTDOOR MOCPS →			20	25	25	25	40	50	55
WALL MOUNTED UNITS	MSZ-EF09***U1	1.00	■	■	■	■	■	■	■
	MSZ-EF12***U1	1.00	■	■	■	■	■	■	■
	MSZ-EF15***U1	1.00	■	■	■	■	■	■	■
	MSZ-EF18***U1	1.00		■	■	■	■	■	■
	MSZ-FH06NA	1.00	■	■	■	■	■	■	■
	MSZ-FH09NA	1.00	■	■	■	■	■	■	■
	MSZ-FH12NA	1.00	■	■	■	■	■	■	■
	MSZ-FH15NA	1.00	■	■	■	■	■	■	■
	MSZ-FH18NA(2)	1.00		■	■	■	■	■	■
	MSZ-GL06NA-U1	1.00	■	■	■	■	■	■	■
	MSZ-GL09NA-U1	1.00	■	■	■	■	■	■	■
	MSZ-GL12NA-U1	1.00	■	■	■	■	■	■	■
	MSZ-GL15NA-U1	1.00	■	■	■	■	■	■	■
	MSZ-GL18NA-U1	1.00		■	■	■	■	■	■
	MSZ-GL24NA-U1	1.00			■	■	■	■	■
MULTI POSITION AHU	SVZ-KP12NA	3.00	■	■	■	■	■	■	■
	SVZ-KP18NA	3.00		■	■	■	■	■	■
	SVZ-KP24NA	3.00			■	■	■	■	■
	SVZ-KP30NA	4.13						■	■
	SVZ-KP36NA	4.13						■	■
CM	PCA-A24KA	1.00			■	■	■		
FLOOR MOUNT	MFZ-KJ09NA-U1	1.00	■	■	■	■	■	■	■
	MFZ-KJ12NA-U1	1.00	■	■	■	■	■	■	■
	MFZ-KJ15NA-U1	1.00	■	■	■	■	■	■	■
	MFZ-KJ18NA-U1	1.00		■	■	■	■	■	■

Equipment Selection

Mitsubishi MXZ - Multi-Zone Equipment Matching		INDOOR MCA ↓	MXZ-2C20NA2	MXZ-3C24NA2	MXZ-3C30NA2	MXZ-4C36NA2	MXZ-5C42NA2	MXZ-8C48NA2	MXZ-8C60NA2
		OUTDOOR MCA →	17	22	22	22	37	42	46
		OUTDOOR MOCAP →	20	25	25	25	40	50	55
DUCTED UNITS	SEZ-KD09NA4R1	1.00	■	■	■	■	■	■	■
	SEZ-KD12NA4R1	1.00	■	■	■	■	■	■	■
	SEZ-KD15NA4R1	1.00	■	■	■	■	■	■	■
	SEZ-KD18NA4R1	1.00		■	■	■	■	■	■
	PEAD-A09AA7	1.45	■	■	■	■	■	■	■
	PEAD-A12AA7	1.45	■	■	■	■	■	■	■
	PEAD-A15AA7	1.69	■	■	■	■	■	■	■
	PEAD-A18AA7	1.69		■	■	■	■	■	■
	PEAD-A24AA7	2.63			■	■	■	■	■
	PEAD-A30AA7	2.73						■	■
	PEAD-A36AA7	3.30						■	■
CEILING CASSETTE	SLZ-KF09NA	0.25	■	■	■	■	■	■	■
	SLZ-KF12NA	0.30	■	■	■	■	■	■	■
	SLZ-KF15NA	0.40		■	■	■	■	■	■
	PLA-A12BA4 (EA7)	1.00				■	■	■	■
	PLA-A18BA4 (EA7)	1.00		■	■	■	■	■	■
	PLA-A24BA4 (EA7)	1.00				■	■	■	■
	PLA-A30BA4 (EA7)	1.00				■	■	■	■
	PLA-A36BA4 (EA7)	2.00				■	■	■	■
	MLZ-KP09NA-U1	1.00	■	■	■	■	■	■	■
	MLZ-KP12NA-U1	1.00	■	■	■	■	■	■	■
	MLZ-KP18NA-U1	1.00		■	■	■	■	■	■
BB	PAC-MKA31BC & PAC-MKA32BC	1.00						■	■
BB	PAC-MKA51BC & PAC-MKA52BC	1.00						■	■
BRANCH BOX REQUIRED MXZ8C48NA & MXZ-8C60NA									
SEE NEXT PAGE FOR ALL CONNECTION RULES									

Connection Rules

INDOOR UNIT CONNECTION RULES

ALL SYSTEMS MUST HAVE A MINIMUM OF 2 UNITS CONNECTED. DO NOT EXCEED 125% CONNECTION RATIO FOR MXZ PORTED UNITS.

MAXIMUM NUMBER OF INDOOR UNITS THAT MAY BE CONNECTED

MXZ-2C20NA(HZ)	2	MXZ-4C36NA(HZ)	4
MXZ-3C24NA(HZ)	3	MXZ-5C42NA(HZ)	5
MXZ-3C30NA(HZ)	3	MXZ-8C48NA(HZ)	8

Connection Rules when using the SVZ Air Handler

MXZ-2C20NA(HZ)2, MXZ-3C24NA(HZ)2, MXZ-3C30NA(HZ)2, MXZ-4C36NA2, MXZ-5C42NA2

Only 1 SVZ Air Handler may be used.

2 units must be connected

No P-Series units can be connected when an SVZ is used in the system

Connection ratio must be 100% or less

MXZ-4C36NAHZ2, MXZ-5C42NAHZ2, MXZ-8C48NA(HZ)2, MXZ-8C60NA2

If connecting 1 SVZ Air Handler

Do not exceed 130% connection ratio [1]

Do not exceed the maximum number of units

Must have at least 2 units connected

May connect (1) indoor SVZ unit if sized large enough to handle the minimum capacity (no other indoor unit is required)

If connecting 2 SVZ Air Handlers

No other equipment can be connected

without using the **Separate Power Terminal Block** on all SVZ's

Do not exceed 130% connection ratio [1]

If connecting 3 -5 SVZ Air Handlers

All SVZ Air Handlers must have the **SPTB1** installed

Do not exceed 130% connection ratio [1]

Separate Power Terminal Block part number is SPTB1

[1] *Not all MXZ units can be connected to 130%. Please refer to submittals for maximum connectivity.*

Connection Rules

AUXILIARY ELECTRIC HEAT

Heat Kit	EH03-	EH05-	EH08-	EH05-	EH08-	EH10-
	SVZ-S	SVZ-S	SVZ-S	SVZ-M	SVZ-M	SVZ-M
Stages	1	1	2	1	2	2
SVZ-KP12NA	■	■				
SVZ-KP18NA	■	■	■			
SVZ-KP24NA	■	■	■			
SVZ-KP30NA				■	■	■
SVZ-KP36NA				■	■	■

* Function 11 (111) must be set to (2) to enable heater operation

* Function 23 (123) must be set to (2) to for operation in defrost and error

AUXILIARY ELECTRIC HEAT

Heat Kit	HTR AMPS ¹	MCA ¹	MOP ¹	FACTORY	1. When powering heat kit separately and not using the SPTB-1
	208/240	208/240	208/240	INSTL BKR	
EH03-SVZ-S	10.8/12.5	13.5/15.6	15/20	20	
EH05-SVZ-S	18.1/20.8	22.6/26.0	25/30	30	
EH08-SVZ-S	28.9/33.3	36.1/41.7	40/45	45	
EH05-SVZ-M	18.1/20.8	22.6/26.0	25/30	30	
EH08-SVZ-M	28.9/33.3	36.1/41.7	40/45	50	
EH10-SVZ-M	36.1/41.7	45.1/52.1	50/60	60	
Heat Kit	HTR AMPS ²	MCA ²	MOP ²	FACTORY	2. When powering heat kit and SVZ with separate power source and using the SPTB-1
	208/240	208/240	208/240	INSTL BKR	
EH03-SVZ-S	13.2/14.9	16.5/18.6	20/20	20	
EH05-SVZ-S	20.5/23.2	25.6/29.0	30/30	30	
EH08-SVZ-S	31.3/35.7	39.1/44.7	40/45	45	
EH05-SVZ-M	21.4/24.1	26.7/30.2	30/30	30	
EH08-SVZ-M	32.2/36.6	40.2/45.8	45/50	50	
EH10-SVZ-M	39.4/45.0	49.3/56.2	50/60	60	

*** Static pressure for design must be reduced as follows.**

1. When using the default setting of 0.50 IWC, maximum design static pressure must not exceed 0.30 IWC
2. When using the maximum setting of 0.80 IWC, maximum design static pressure must not exceed 0.60 IWC Static pressure settings are changed by using a wired or MHK-1 stat or by dip switch settings on the PAC-US444CN interface. Function 08 (wired) or 108 (MHK-1)

Specifications

HYPER-HEAT

Specifications	2C20	3C24	3C30	4C36	5C42	8C48
Rated Cooling	20,000	23,600	28,400	36,000	42,000	48,000
Rated Heating	22,000	25,000	28,600	45,000	48,000	54,000
Max Heating @ 17°F	22,000	25,000	28,600	45,000	48,000	54,000
Max Heating @ 5°F	22,000	25,000	28,600	45,000	48,000	54,000
SEER	17.15	19	18	20	20	20
EER	14.3	13.5	12.5	14	13.4	12
HSPF	10	10	11	11.3	11	11.5
Max Pipe Length	164	230	230	492	492	492
Vertical Separation	49/49	49/49	49/49	164/131	164/131	164/131

Requires Branch Box

Specification	2C20	3C24	3C30	4C36	5C42	8C48
Voltage: S1-S2	208/230 vac	208/230 vac	208/230 vac	208/230 vac	208/230 vac	208/230 vac
Voltage: S2-S3	12-24vdc	12-24vdc	12-24vdc	12-24vdc	12-24vdc	12-24vdc
S1-S2-S3 AWG	14	14	14	16	16	16
MCA	29	30	30	42	42	42
MOCP	40	40	40	52	50	50
Fan Motor F.L.A.	1.9	1.9	1.9	0.4+0.4	0.4+0.4	0.4+0.4
Compressor R.L.A.	20	20	20	19	19	19
Compressor L.R.A.	28.8	28.8	28.8	22	22	22

Requires Branch Box

Gensco Part Numbers for Wiring

- 1) THW 75702 757020623- Mitsubishi 16/2 Stranded Shielded (M Net) Wire
- 2) THW 604260408- Mitsubishi Wire 16/3 w/ Ground
- 3) THW 60444250- Mitsubishi Wire 14/3 w/ Ground

Specifications

NON-HYPER-HEAT

Specifications	2C20	3C24	3C30	4C36	5C42	8C48	8C60
Rated Cooling	20,000	23,600	28,400	35,400	40,500	48,000	60,000
Rated Heating	22,000	25,000	28,600	36,000	45,000	54,000	66,000
Max Heating @ 17°F	15,500	19,600	21,000	26,600	30,500	36,600	65,000
Max Heating @ 5°F	11,100	18,200	18,200	24,000	26,000	32,400	57,000
SEER	20	20	19	19.2	19.7	20	19.5
EER	12.5	13.6	10.6	9.4	9.2	12.2	12.5
HSPF	10	9.8	10.6	11	10.3	11.5	10.7
Max Pipe Length	164	230	230	230	262	492	492
Vertical Separation	49/49	49/49	49/49	49/49	49/49	164/131	164/132

Requires Branch Box

Specification	2C20	3C24	3C30	4C36	5C42	8C48	8C60
Voltage: S1-S2 / S1-S3	208/230 vac	208/230 vac	208/230 vac	208/230 vac	208/230 vac	208/230 vac	208/230 vac
Voltage: S2-S3	12- 24vdc	12- 24vdc	12- 24vdc	12- 24vdc	12- 24vdc	12- 24vdc	12- 24vdc
S1-S2-S3 Wire AWG	14	14	14	14	14	16	16
MCA	17.2	22.1	22.1	22.1	32.5	35	46
MOCP	20	25	25	25	40	50	55
Fan Motor F.L.A.	1.77	2.43	2.43	2.43	2.43	0.4+0.4	0.8+0.8
Compressor R.L.A.	10.7	12	12	12	20	19	18
Compressor L.R.A.	15.5	13.7	13.7	13.7	28.8	22	29

Requires Branch Box

Gensco Part Numbers for Wiring

- 1) THW 75702 757020623- Mitsubishi 16/2 Stranded Shielded (M Net) Wire
- 2) THW 604260408- Mitsubishi Wire 16/3 w/ Ground
- 3) THW 60444250- Mitsubishi Wire 14/3 w/ Ground

Line Sizing

HYPER-HEAT

Ported Hyper-Heat Units	2C20NAHZ			3C24NAHZ			3C30NAHZ		
Port Connections	A	B		A	B	C	A	B	C
Gas Pipe Size	3/8	3/8		1/2	3/8	3/8	1/2	3/8	3/8
Liquid Pipe Size	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4
Max Branch Length	82			82			82		
Max Total Line Length	164			230			230		
Max Vertical Separation	49			49			49		

Units Precharged for 98 Feet of Piping

Branch Box Hyper-Heat Units		4C36NAHZ	5C42NAHZ	8C48NAHZ
Connection Size Gas Pipe		5/8	5/8	5/8
Connection Size Liquid Pipe		3/8	3/8	3/8
Max Total Line Length		492	492	492
Maximum Vertical Separation	ID Units Above OD Unit	131	131	131
	OD Unit Above ID Units	164	164	164
	Branch Boxes	49	49	49
	Branch Boxes to Indoor Units	49	49	49
	Between Indoor Units	39	39	39
Max Length from OD to All Branch Boxes		180	180	180
Max Length From Tee to Farthest Branch Box		98	98	98
Max Length from Branch Box to ID Unit		82	82	82
Max Total From Branch Box to ID Units		311	311	311

*Units **NOT** Precharged for Piping*

Branch Boxes	PAC-MKA(31&32)BC			PAC-MKA(51&52)BC				
Port Connections	A	B	C	A	B	C	D	E
Gas Pipe Size	3/8	3/8	3/8	1/2	3/8	3/8	3/8	3/8
Liquid Pipe Size	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4

Line Sizing

NON-HYPER-HEAT

Ported Type

Unit Model	2C20NA			3C24NA			3C30NA		
Port Connections	A	B		A	B	C	A	B	C
Gas Pipe Size	3/8	3/8		1/2	3/8	3/8	1/2	3/8	3/8
Liquid Pipe Size	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4
Max Branch Length	82			82			82		
Max Total Line Length	164			230			230		
Max Vertical Separation	49			49			49		

Unit Model	4C36NA				5C42NA				
Port Connections	A	B	C	D	A	B	C	D	E
Gas Pipe Size	1/2	3/8	3/8	3/8	1/2	3/8	3/8	3/8	3/8
Liquid Pipe Size	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
Max Branch Length	82				82				
Max Total Line Length	230				262				
Max Vertical Separation	49				49				

Units Pre-Charged for 98 feet of Piping. Add 0.21 oz per foot over 98 feet

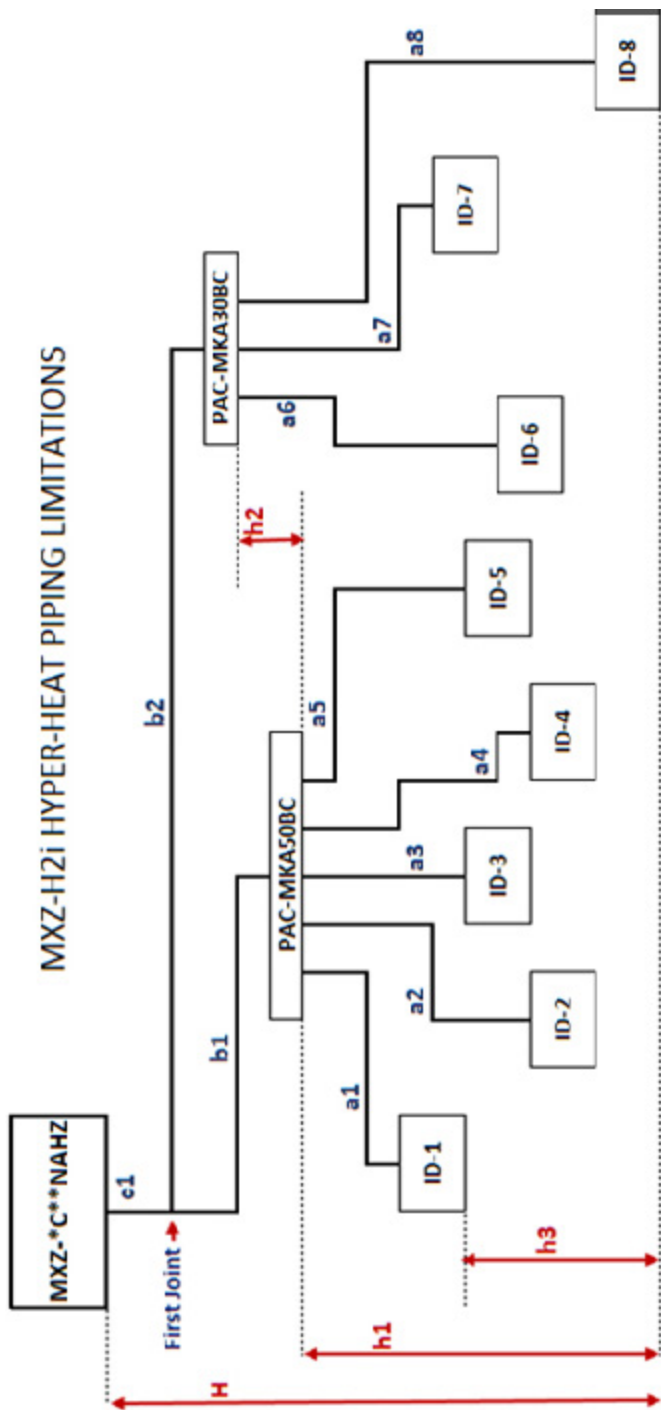
Branch Box Type

Branch Box Hyper-Heat Units		8C48NA	8C60NA
Connection Size Gas Pipe		5/8	3/4
Connection Size Liquid Pipe		3/8	3/8
Max Total Line Length		492	492
Maximum Vertical Separation	ID Units Above OD Unit	131	131
	OD Unit Above ID Units	164	164
	Branch Boxes	49	49
	Branch Boxes to Indoor Units	49	49
	Between Indoor Units	39	39
Max Length from OD to All Branch Boxes		180	180
Max Length From Tee to Farthest Branch Box		98	98
Max Length from Branch Box to ID Unit		82	82
Max Total From Branch Box to ID Units		311	311

*Units **NOT** Precharged for Piping Refer to additional charge calculation worksheet*

Branch Boxes	PAC-MKA(31&32)BC			PAC-MKA(51&52)BC				
Port Connections	A	B	C	A	B	C	D	E
Gas Pipe Size	3/8	3/8	3/8	1/2	3/8	3/8	3/8	3/8
Liquid Pipe Size	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4

Piping Limitations



Piping Limitations

Permissible length (one-way)	Total piping length	$c1+b1+b2+a1+a2+a3+a4+a5+a6+a7+a8 = (492 \text{ ft})$
	Farthest piping length	$c1+b2+a8 = (262 \text{ ft})$ $b2 = (180 \text{ ft with one branch box})$ $a8 = (82 \text{ ft})$
	Total Piping Between OD unit and Branch Boxes	$c1+b1+b2 = (180 \text{ ft with 2 branch boxes})$
	Farthest Branch Box From 1st Joint (b2)	(98 ft)
	Farthest length after branch box	(82 ft)
Permissible Height difference (one-way)	Total piping from branch boxes and indoor units	$a1+a2+a3+a4+a5+a6+a7+a8 = (311 \text{ ft})$
	Lowest/Highest Indoor to Outdoor Piping (H)	(164 ft) Outdoor unit above indoor units
		(131 ft) Outdoor unit below indoor units
	Branch box to indoor unit	$h1+h2 = (49 \text{ ft})$
	Between highest and lowest branch box (h2)	$h2 = (49 \text{ ft})$
Maximum Number of Bends <i>Each 90° reduces allowable line length by 1 ft</i>	Between highest and lowest indoor unit (h3)	$h3 = (39 \text{ ft})$
		$[c1+b1+a1] [c1+b1+a2] [c1+b1+a3] [c1+b1+a4]$ $[c1+b1+a5] [c1+b2+a6] [c1+b2+a7] [c1+b2+a8] = (15)$

Additional Charge Calculation

MXZ-C WITH BRANCH BOX ADDITIONAL REFRIGERANT CHARGE CALCULATION

Ported Type Units

Require additional charge if piping is greater than **98 feet**

Example: Total piping = 188 ft 188 ft - 98 ft = 90 ft

90 x 0.21 = 18.9 oz Additional Charge

Branch Box Type Units

4C36 - 5C42 - 8C48

1/4" Pipe
0.21 oz/ft

+

3/8" Pipe
0.55 oz/ft

+

Total Indoor Unit Capacity

to 27K	53 oz
28K- 54K	88 oz
55K - 62K	106 oz

Example

Total 1/4" Piping 112 ft x 0.21 = 23.52 oz

Total 3/8" Piping 125 ft x 0.55 = 68.75 oz

Total Indoor BTU Capacity 42,000 = 88.00 oz

Total Additional Charge to be Added = **180.27 oz**
(11.27) lbs

*Factory charge in unit is 10.9 lbs

Branch Box Type Units

****MXZ-8C60NA (only)**

1/4" Pipe
0.29 oz/ft

+

3/8" Pipe
0.75 oz/ft

+

Total Indoor Unit Capacity

to 27K	53 oz
28K- 54K	88 oz
55K - 78K	106 oz

Example

Total 1/4" Piping 112 ft x 0.29 = 32.48 oz

Total 3/8" Piping 125 ft x 0.75 = 93.75 oz

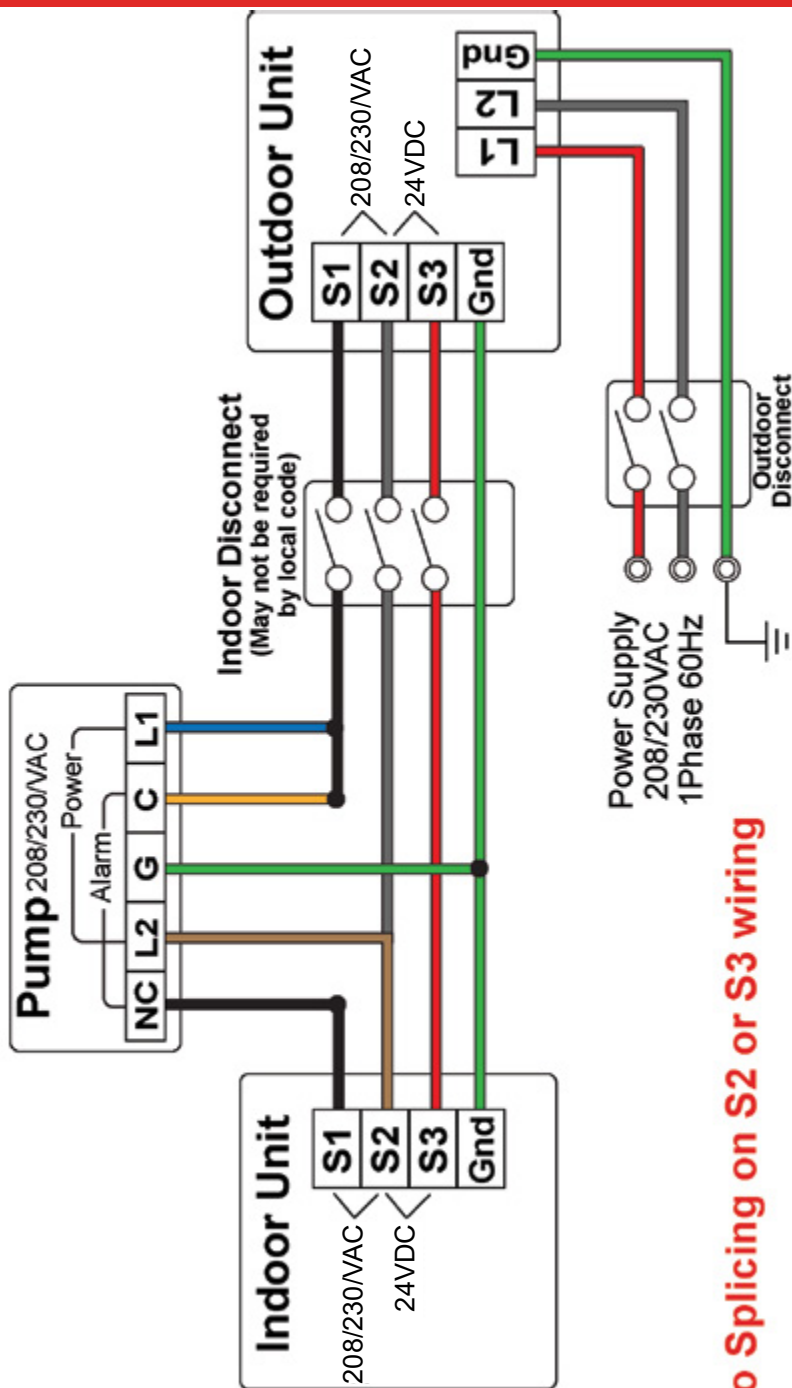
Total Indoor BTU Capacity 66,000 = 106.00 oz

Total Additional Charge to be Added = **232.23 oz**
(14.51) lbs

*Factory charge in unit is 11.4 lbs

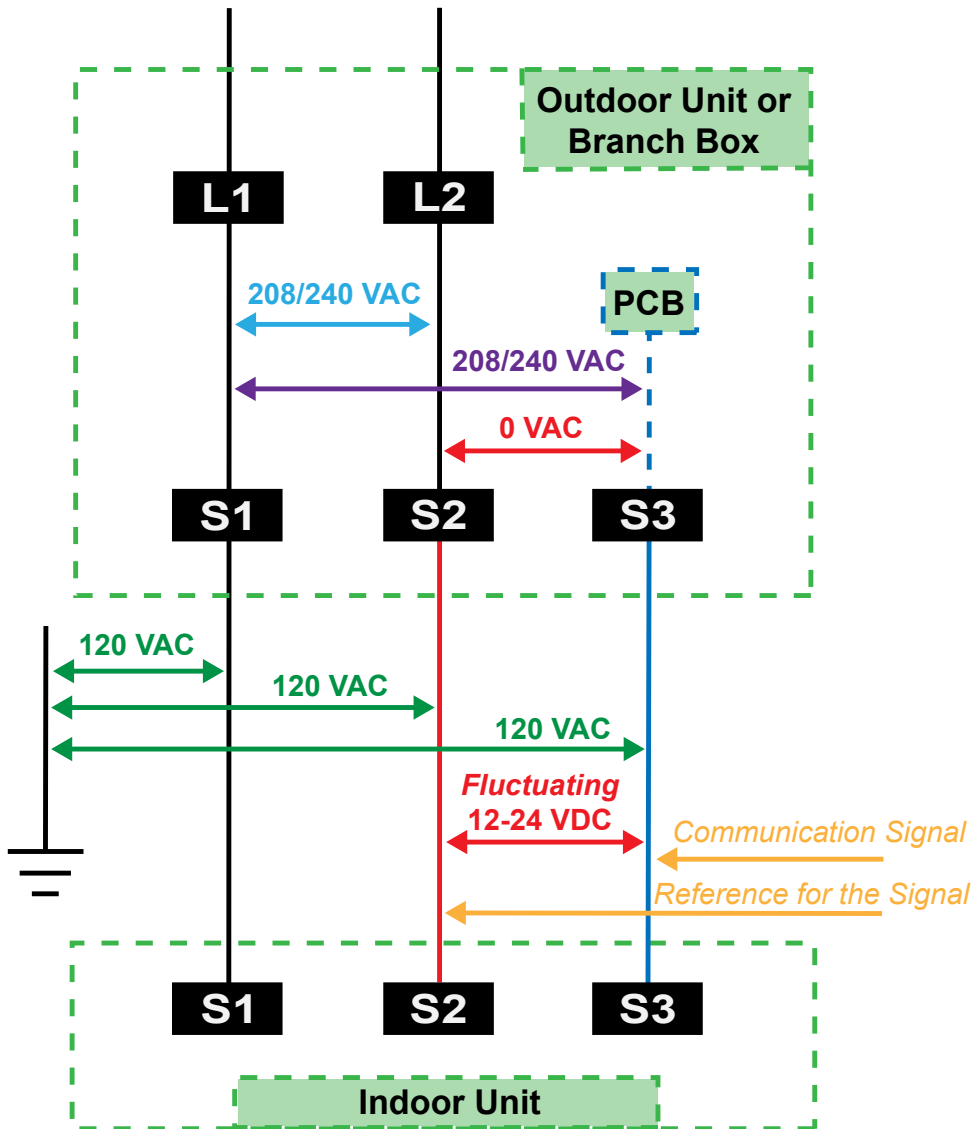
Generic Condensate Pump Wiring Diagram

Correct wiring for condensate pumps with Mitsubishi systems



Voltage Measurements

Mitsubishi M&P Series Nominal Voltage Measurements



Voltage Measurements

Communication Explanation

The indoor unit is powered by the S1 and S2 wires. S1 is the same phase as Line 1. S2 is the same phase as L2. **S3 is also the same phase as L2**

Because the S2 and S3 wires are the same phase and have no voltage potential between them, a digital data signal can be transmitted over those wires. S3 carries the communication signal and S2 is used by the control boards as a zero reference for the signal. This signal is in the form of 1's and 0's, high and low volts DC.

In order for the signal to be read and processed properly by the control boards, the timing between the transmission and reception of those signals must be kept within usable parameters. Anything that delays or interferes with the reception of a signal, or causes a distortion of the signal waveform may cause the signals to be repeated or misinterpreted.

Wiring that is too large means the signal must travel a greater distance over the length of the wire. Each step up in wire gauge is 59% larger than the previous size. Wiring with splices will cause signal delays as they pass through the splice and can cause signal distortions leading to miss-interpretation of a signal. If the S2 and/or the S3 wire are routed in a parallel pathway near other power wiring, an RFI, or Radio Frequency Interference can be induced on the signal wires caused by the magnetic field produced by current flow in the adjacent wire. This will cause a distortion in the signal and also cause miss-interpretation of that signal.

The three general rules that should be considered to prevent the described communication issues are:

- 1: **Right size wire [14 or 16 AWG] depending on the unit or system**
- 2: No splices in either S1, S2 and S3 wiring
- 3: **Keep the S1, S2 and S3 wiring a minimum of 2 inches from parallel circuits with larger current values**

Violation of the described wiring rules are known to cause operational problems and should be avoided to insure proper communication takes place

Aspen Condensate Pump Diagram

RECTORSEAL



Wiring instructions for Aspen Pumps

Mini Orange

Mini Lime

Mini Aqua

Silent+

Univolt

MicroV

Maxi Orange

Maxi Lime

Mini White

MITSUBISHI 230 VOLT MR. SLIM M SERIES

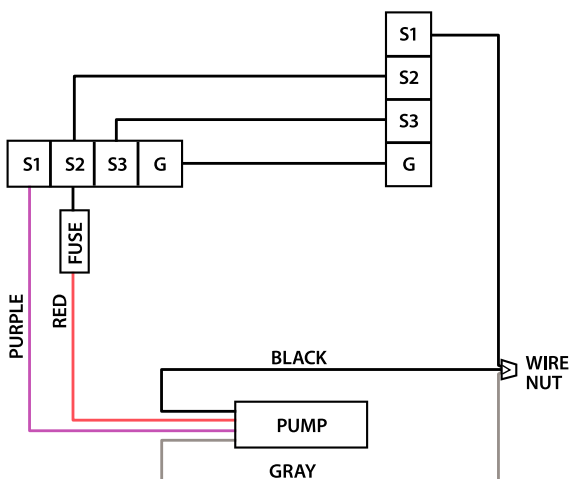
1. Check evaporator voltage to ensure that pump voltage is correct.
2. Install 1 amp inline fuse between evaporator and pump to protect pump and unit.
3. Connect red wire to terminal block in evaporator as shown.

NOTE: DO NOT USE SEPARATE 230 VOLT OUTLET TO POWER PUMP AS THIS IS NOT FAIRLY SAFE AND MAY CAUSE AN OVERFLOW!

4. Disconnect power from terminal S1 in evaporator and connect to black and gray wires from pump with a wire nut as shown. Connect purple wire from pump to terminal S1 in evaporator.

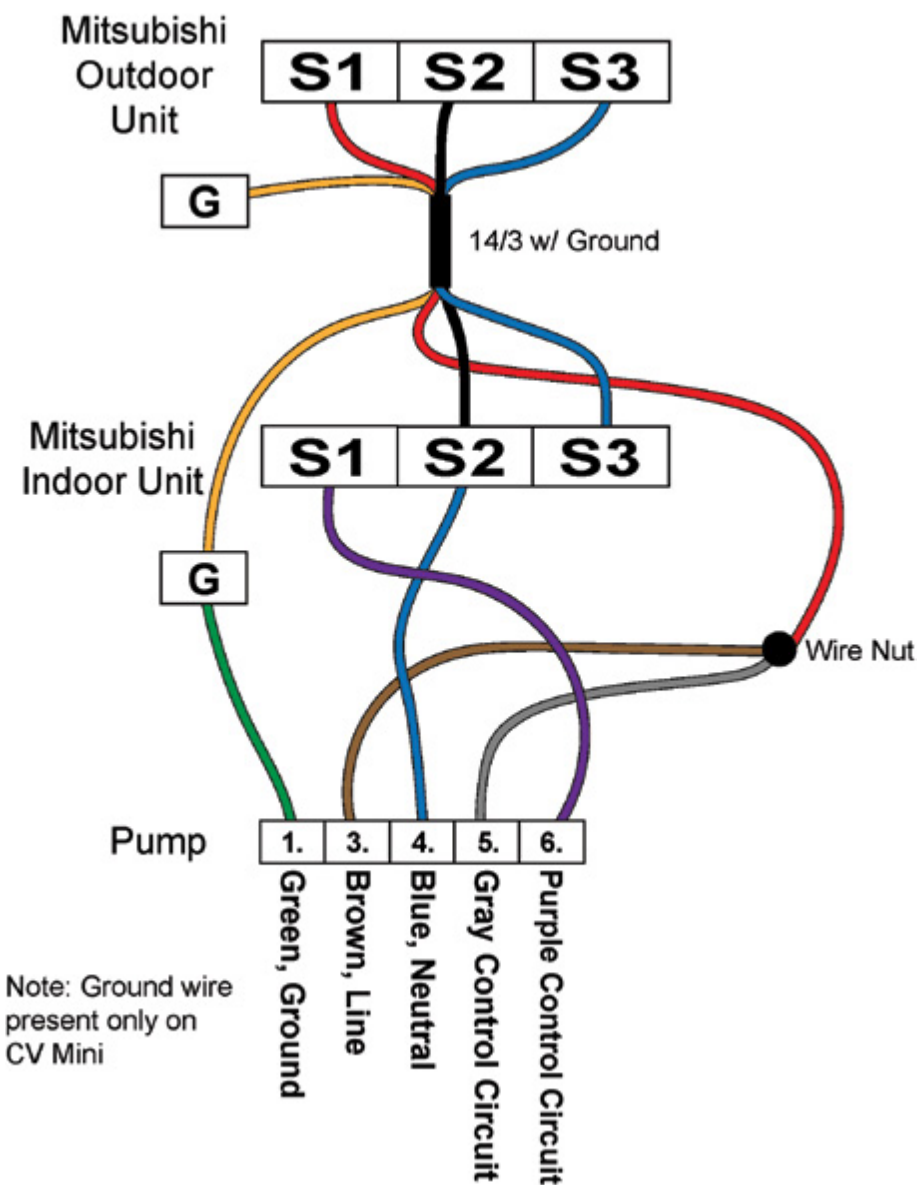
NOTE: OVERFLOW ALARM WIRE MUST BE CONNECTED TO ENSURE THAT IN CASE OF PUMP FAILURE OR BLOCKAGE IN DISCHARGE HOSE, EVAPORATOR WILL SHUT DOWN. CONNECTION OF THE OVERFLOW ALARM CIRCUIT IS MANDATORY AND FAILURE TO DO SO WILL INVALIDATE PUMP WARRANTY!

Mr. Slim M-Series
(230v)



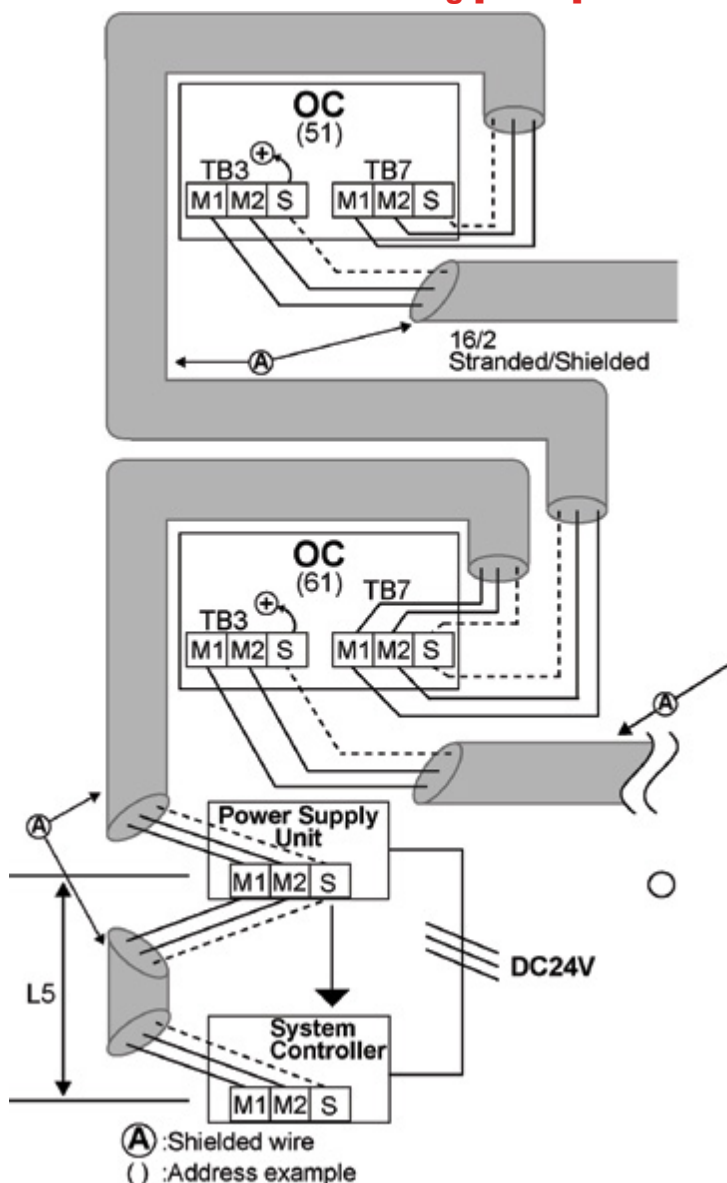


Wiring Diagram



Control Wiring

Communication wiring [M-Net]



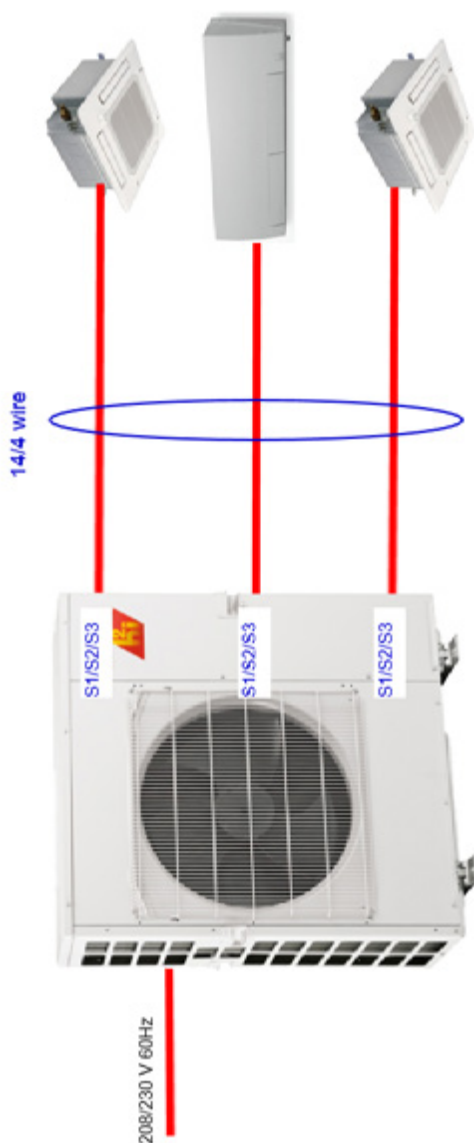
***M-Net wiring must be daisy chained

16/2 stranded/shielded, with no splices between equipment

Gensco Part No:

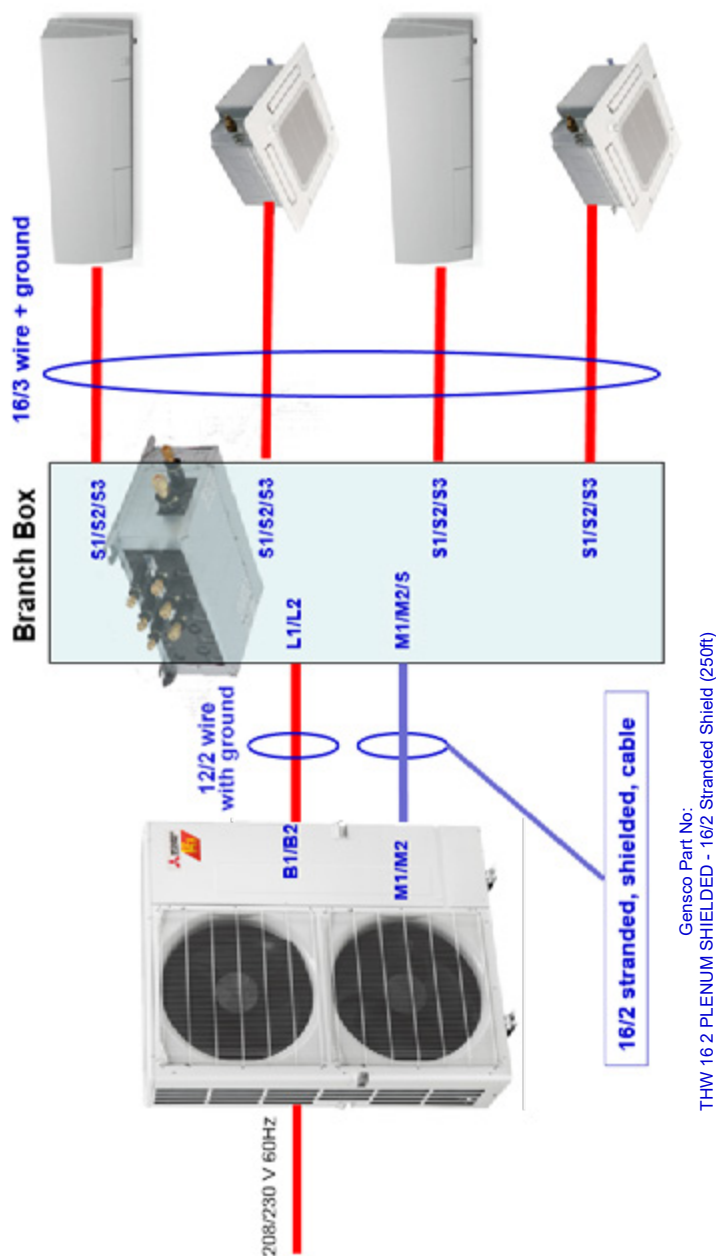
THW 16 2 PLENUM SHIELDED - 16/2 Stranded/Shielded Wire (250ft)

Wiring Ported Type Units



***S1-S2-S3 wiring must be 14/4 with no splices between equipment

Wiring Branch Box Type Units



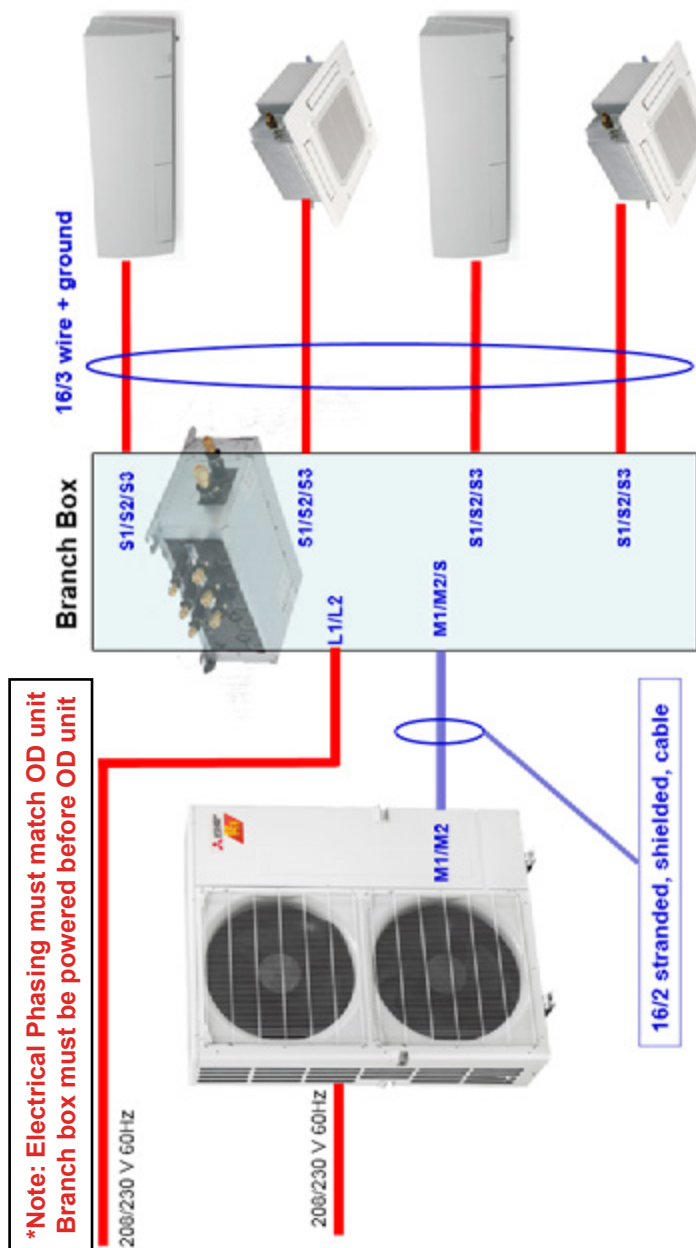
***S1-S2-S3 wiring must be 16/3 with no splices between equipment

Gensco Part No:

THW 16 4 TRAY - 16/4 Stranded Wire (250ft)

Branch Box Power From Outdoor Unit

Branch Box Powered Separately



Gensco Part No:

THW 16 2 PLENUM SHIELDED - 16/2 Stranded Shield (250ft)

*****S1-S2-S3 wiring must be 16/3 with no splices between equipment**

Gensco Part No:

THW 16 4 TRAY - 16/4 Stranded Wire (250ft)

Addressing Equipment

Outdoor Unit

City Multi Address Rules

2nd Digit



10's

1st Digit



1's

Rules

1. Range from 51 to 100
2. Should be 50 higher than lowest connected branch box.

Example: Branch box address [01]
Turn SWU2 to [5] and SWU1 to [1] [51]

Branch Box

SW12



10's

SW11



1's

Rule

1. Range from 1 to 50

Example: To address to [01]
Leave SW12 at [0], turn SW11 to [1]

Branch Box Connection Setting

Turn on Dip Switches [SW1] for connected ports on Branch Box

Port	A	B	C	D	E	
ON	☐	☐	☐	☐	☐	SW1
OFF	☒	☒	☒	☒	☒	
	1	2	3	4	5	6

Off is default factory position (SW1-6 is not used)

Example: PAC-MKA50BC with connections to ports A-B-C

Port	A	B	C	D	E		Port
ON	☒	☒	☒	☐	☐	SW1	ON
OFF	☐	☐	☐	☒	☒		OFF
	1	2	3	4	5	6	

**** SW1-6 is not used. Leave in OFF position**

**Do not confuse switch bank SW1 with switch bank SW5*

Addressing Equipment

Outdoor Unit

Address

[55]

[51]

Address Branch Box and turn on SW1

dip switches for connected ports.

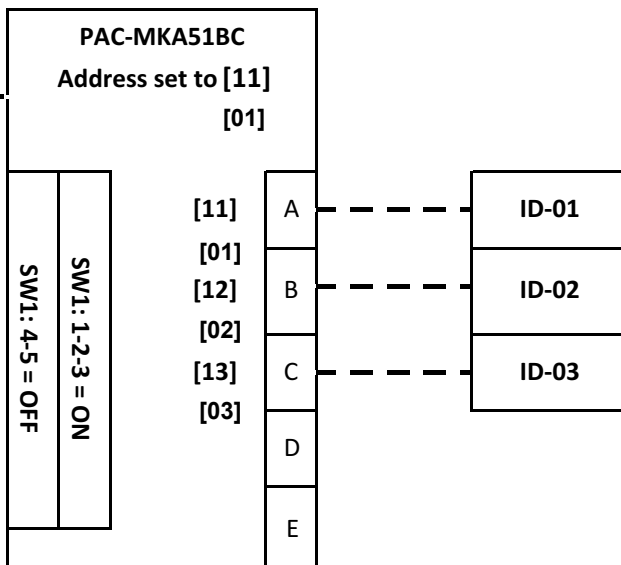
System internally assigns the correct

addressing for energized ports in sequence.

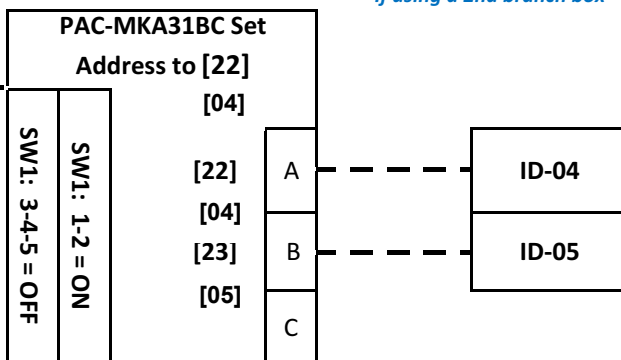
Second Branch Box must be addressed with

a higher available number as the example

below illustrates.



If using a 2nd branch box



Dip Switch Functions

8-10. INTERNAL SWITCH FUNCTION TABLE

(1) Function of switches

MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ MXZ-8C48NA

The black square (■) indicates a switch position.

Switch	Step	Function	Operation in Each Switch Setting		Remarks	Purpose	Additional Information
			ON	OFF			
SWU1 unit digit SWU2 tens digit					<Initial settings> 		
SW1 Digital Display Switch	1-8				<Initial settings> ON OFF 1 2 3 4 5 6		
SW2 Function Switch	1	Selects operating system startup	With centralized controller	Without centralized controller		Turn ON when the centralized controller is connected to the outdoor unit.	—
	2	Connection Information Clear Switch	Clear	Do not clear	<Initial settings> ON OFF 1 2 3 4	When relocating units or connecting additional units.	—
	3	Abnormal data clear switch input	Clear	Normal		To delete an error history.	
	4	Pump down	Run adjustment mode	Normal		To facilitate outdoor unit the pumping down operation. Frequency = Fixed to 65 Hz Indoor-section expansion valve = Full open Outdoor fan speed = Fixed to 10	Please refer to a section referring to the pumping down on outdoor units Installation Manuals. It might not be possible to collect all the refrigerant if the amount is excessive.
SW2-5, 6/ SW4/ SW8 Model Switch	1-6	MODEL SELECTION 1:ON 0:OFF 			<Initial settings> Set for each capacity.		—
SW3 Trial operation	1	ON/OFF from outdoor unit*	ON	OFF	<Initial settings> ON OFF 1 2	Turn ON to activate the demand control for Australia.	(Do not turn this ON if the unit is in outside Australia)
SW5 Function switch	2	Mode setting	Heating	Cooling		To set the LEV opening at start-up higher than usual. (+150 pulses) To improve the operation with the LEV almost clogged.	The refrigerant flow noise at start-up become louder.
	1	Demand control setting for Australia	Australia setting	Normal			—
	2	Change the indoor unit's LEV opening at start-up	Enable	Normal			—
	3	—	—	—	<Initial settings> ON OFF 1 2 3 4 5 6 7 8	To set the LEV opening higher than usual during defrosting operation. (Only Q ≤ 10 is valid, + 300 pulses) To avoid the discharge temperature increase and provide efficient defrosting operation.	The refrigerant flow noise during the defrosting operation becomes louder.
	4	—	—	—		To decrease the target sub cool value. To reduce the discharge temperature decrease due to refrigerant liquid accumulation in the units.	A refrigerant flow noise might be generated if the sub cool value is too small.
	5	Change the indoor unit's LEV opening at defrost	Enable	Normal			
	6	Switching the target sub cool (Heating mode)	Enable	Normal			

*1: Test run on PWVF series cannot be run by the outdoor unit. Use a switch on the indoor unit or a remote controller to perform test run.

Dip Switch Functions

Switch	Function	Operation in Each Switch Setting	Remarks	Purpose	Additional Information
SW5 function switch		ON OFF			
7	During the outdoor unit is in HEAT operation, slightly opens the electronic expansion valve on the indoor unit which is in FAN, STOP, COOL, or thermo-OFF.*3	Active	<Initial settings> ON OFF 1 2 3 4 5 6 7 8	To open the LEV opening higher for units other than in HEAT operation. To avoid a refrigerant shortage (less capacity) due to refrigerant liquid accumulation in the units which is not in operation.	A refrigerant flow noise might be generated in units other than the one in operation.
8	During the outdoor unit is in operation, fully opens the electronic expansion valve on the indoor unit, which is in FAN, COOL, STOP, or thermo-OFF.*4	Enable	Normal	Before turning the power ON.	The refrigerant is more likely to collect in the units with thermo-OFF operation, and causing the units refrigerant shortage. (Results in less capacity and increase of discharge temperature.)
1	—	—	—	—	—
2	Switch of current limitation reading in a different way	Enable	Normal	Before turning the power ON.	The performance of the unit might be somewhat reduced since the frequency would not rise enough due to the lowered current limitation.
3	—	—	—	—	—
4	Change of defrosting control	Enable (For high humidity)	Normal	—	The performance of the HEAT operation is somewhat reduced since the defrosting operation is frequently performed.
5	—	—	—	—	—
6	Switching the target discharge pressure (Pdm)	Enable	Normal	Can be set when OFF or during operation	Power consumption is raised due to a higher frequency. (The performance would not be raised at the maximum operating frequency.)
7	Switching (1) the target evaporation temperature (ETm)	Enable	Normal	SW6-6 Target ETm (°C) 9 11 6 14	Switching it to raise the performance, it raises the power consumption, and produces more dew condensation. Switching it to reduce the performance, it makes the performance insufficient.
8	Switching (2) the target evaporation temperature (ETm)	Enable	Normal	SW6-7 Target ETm (°C) 9 11 6 14	Switching it to raise the performance, it raises the power consumption, and produces more dew condensation. Switching it to reduce the performance, it makes the performance insufficient.
1	Ignore current sensor anomaly	Enable	Normal	After turning the power ON	Make sure to connect the connectors to the compressor after checking the electrical parts be careful not to get electrical shock while working on electrical parts.
2	Setting to energize the freeze stat heater (optional part)	During heating operation, operates only*5	Indicate when heating operation is common only*5	MXZ-8C48NA ON OFF 1 2 3 4 5 6	It reduces snow on the base, even it blows inside the unit, by setting the base heater ON while the HEAT operation is stopped.
3	—	—	—	—	—
4	Maximum frequency down at 1 hour after COOL operation	Enable	Normal	MXZ-4C36/6C42/ 8C48NAHZ ON OFF 1 2 3 4 5 6	The performance might be insufficient.
5	—	—	—	—	—
6	Forced defrost	Forced defrost	Normal	During compressor operation in HEAT mode.	It performs the defrosting operation forcibly. (HEAT operation is stopped temporarily.)
1	Auto change over from remote controller (IC with the minimum address)	Enable*2	Disable	Before turning the power ON	Cannot be set when the centralized control is ON.
2	Switching the Silent/ Demand mode	Demand control	Silent mode	Can be set when OFF or during operation	About the Silent mode/Demand control setting, refer to "§6. OUTDOOR UNIT INPUT/OUTPUT CONNECTOR".

*2 When a PWFY series is connected, this function is always disable regardless of the switch.

*3 SW2: Opens the indoor-electronic expansion valve as a countermeasure against the indoor unit in FAN, COOL, STOP, or thermo-OFF operation with refrigerant-shortage status due to an accumulation of liquid refrigerant in the indoor unit.

*4 SW6-3 Countermeasure against room temperature rise for indoor unit in FAN, COOL, and thermo-OFF (heating) mode.

*5 During heating operation and the ambient temperature is 39°F (4°C) or below, the freeze prevention heater is energized.

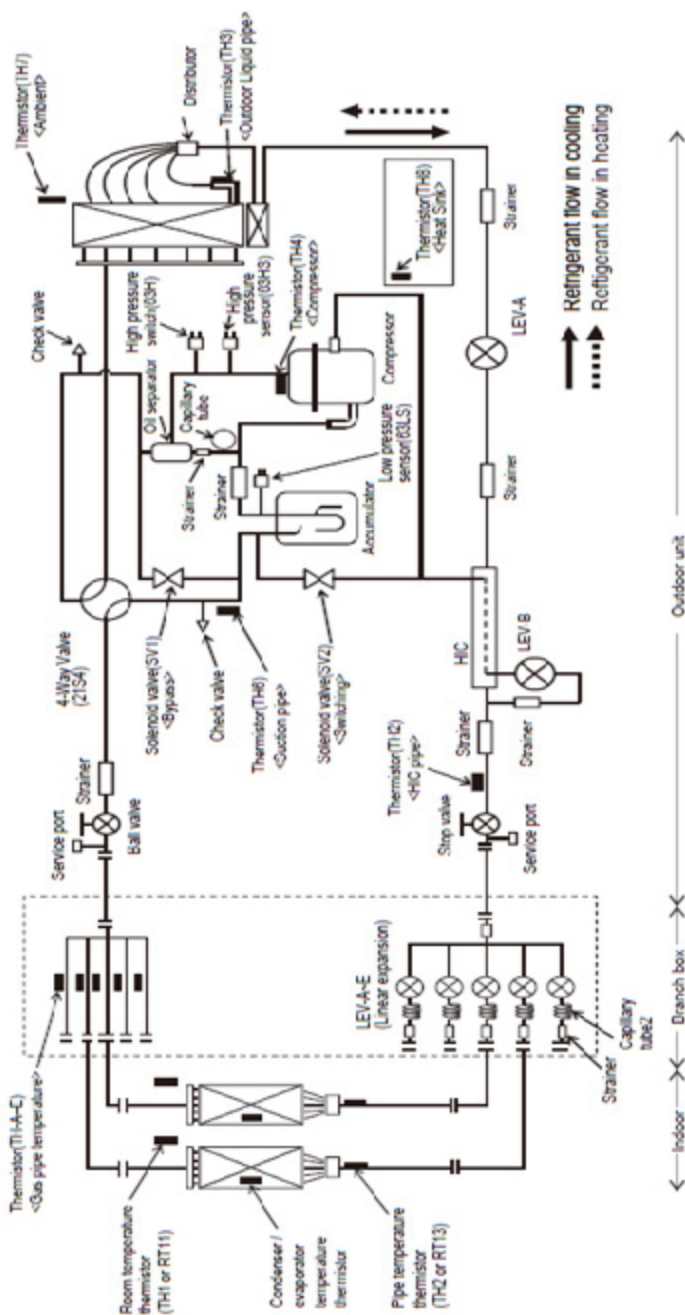
*6 During heating mode is OFF (include thermo-OFF in cooling mode), and the ambient temperature is 39°F (4°C) or below, the freeze prevention heater is energized.

7-2. REFRIGERANT SYSTEM DIAGRAM

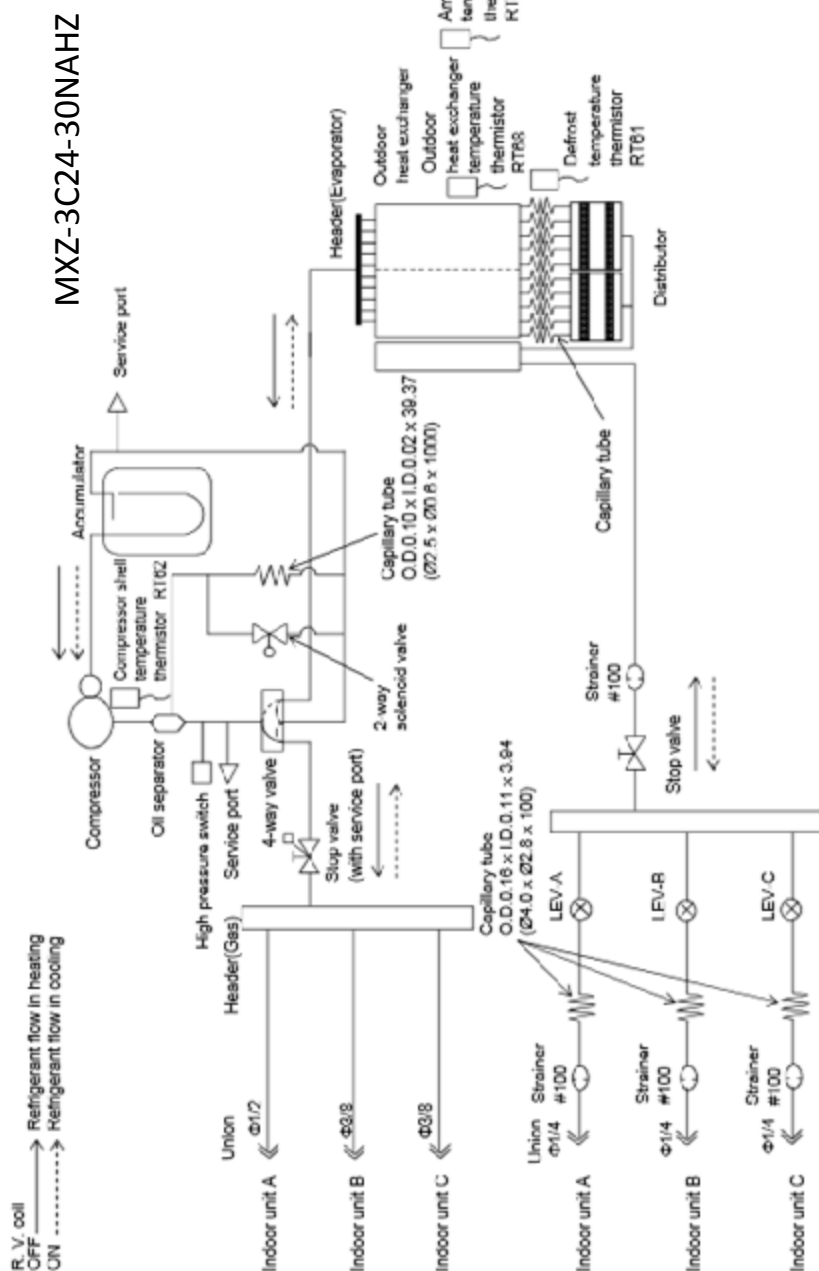
MXZ-4C36NAHZ

MXZ-5C42NAHZ

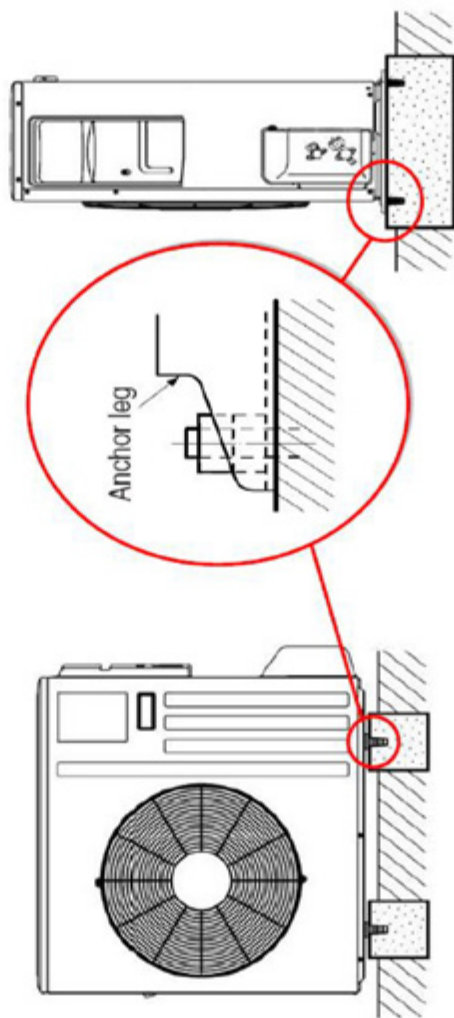
MXZ-8C48NAHZ



Refrigerant Diagrams



Installing an M- and P-Series System (All models)



Always Raise Heat Pumps

* Wall mounting bracket CWMB1 available

Raise units in colder climates to allow for proper drainage during defrost cycle.

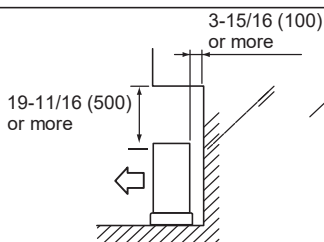
Wall Brackets and Mounting Blocks Available.

Minimum unit height should be 8" above highest snowfall depth.

Free Space Required Around Outdoor Unit

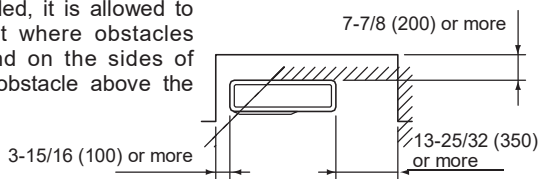
1. Obstacles above

When there is no obstacle in front and on the sides of the unit, it is allowed to install the unit where an obstacle is above the unit only if the space shown in the figure is provided.



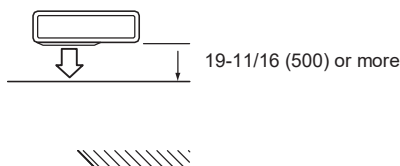
2. Front (blowing) side open

As long as space indicated in the figure is provided, it is allowed to install the unit where obstacles are behind and on the sides of the unit. (No obstacle above the unit)



3. Obstacles in front (blowing) only

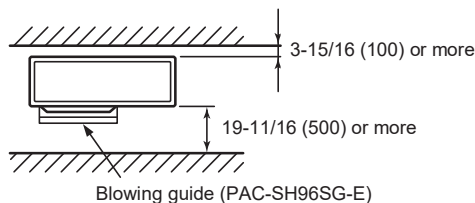
When there is an obstacle in front of the unit as shown in the figure, open space above, behind, and on the sides of the unit is required.



Free Space Required Around Outdoor Unit

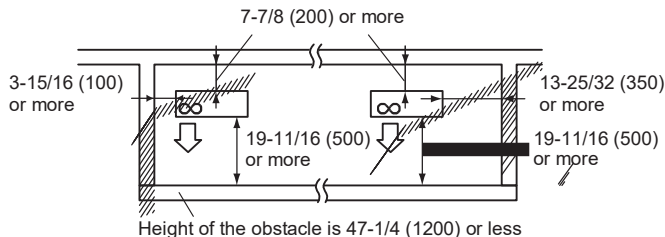
4. Obstacles in front and behind

The unit can be used by attaching an optional outdoor blowing guide (PAC-SH96SG-E) (but both sides and top are open).



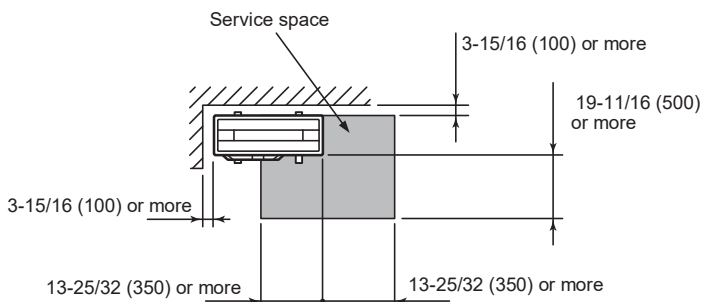
5. Obstacles in front, behind and on side(s)

- When installing the unit in an area that is enclosed with walls such as a verandah, be sure to have enough space as shown below. In this case, the air conditioning capacity and power consumption might deteriorate.
- When installing two or more units, do not install the units in front or behind each other.



6. Service space

Provide space for service and maintenance as shown in the figure.



Test Run Error List

Countermeasures for Error During Test Run

● If a problem occurs during test run, a code number will appear on the remote controller (or LED on the outdoor unit), and the air conditioning system will automatically cease operating.

Determine the nature of the abnormality and apply corrective measures.

Check code	Trouble	Detected Unit			Remarks
		Indoor	Outdoor	Remote Controller	
0403	Serial communication error		○		Outdoor unit Multi controller board ~ Power board communication trouble
1102	Compressor temperature		○		Check delay code 1202
1302	High pressure		○		Check delay code 1402
1500	Superheat due to low discharge temperature		○		Check delay code 1600
1501	Refrigerant shortage		○		Check delay code 1601
	Blocked valve in cooling mode		○		Check delay code 1501
1503	Indoor HEX freezing protection		○		
1508	4-way valve trouble in heating mode		○		Check delay code 1608
2500	Water leakage	○			
2502	Drain over flow protection	○			
2503	Drain sensor abnormality	○			
4100	Compressor current interruption (locked compressor)		○		Check delay code 4350
4210	Compressor overcurrent interruption		○		
4220	Voltage shortage/overvoltage/PAM error/L1open phase/power synchronization signal error		○		Check delay code 4320
4230	Heat sink temperature		○		Check delay code 4330
4250	Power module		○		Check delay code 4350
4400	Rotational frequency of outdoor fan motor		○		Check delay code 4500
5101	Air inlet thermistor trouble (TH21) or Compressor temperature thermistor (TH4) open/short	○	○		Check delay code 1202
5102	Liquid pipe temperature thermistor trouble (TH22)	○			
5102	Suction pipe temperature thermistor (TH6) open/short		○		Check delay code 1211
5103	Gas pipe temperature thermistor trouble (TH23)	○			
5105	Outdoor liquid pipe temperature thermistor (TH3) open/short		○		Check delay code 1205
5106	Ambient thermistor (TH7) open/short		○		Check delay code 1221
5109	H/C pipe temperature thermistor (TH2) open/short		○		Check delay code 1222
5110	Heat sink temperature thermistor (TH8) open/short		○		Check delay code 1214
5201	High pressure sensor (63HS)		○		Check delay code 1402
5202	Low pressure sensor (63LS)		○		Check delay code 1400
5300	Primary current		○		Check delay code 4310
5701	Contact failure of drain float switch	○			
6600	Duplex address error	○	○	○	Only M-NET Remote controller is detected
6602	Transmission processor hardware error	○	○	○	Only M-NET Remote controller is detected
6603	Transmission bus BUSY error	○	○	○	Only M-NET Remote controller is detected
6606	Signal communication error with transmission processor	○	○	○	Only M-NET Remote controller is detected
6607	No ACK error	○	○	○	Only M-NET Remote controller is detected
6608	No response frame error	○	○	○	Only M-NET Remote controller is detected
6831	MA communication receive error (no receive signal)	○	○	○	Only MA Remote controller is detected
6832	MA communication send error	○	○	○	Only MA Remote controller is detected
6833	MA communication send error	○	○	○	Only MA Remote controller is detected
6834	MA communication receive error	○	○	○	Only MA Remote controller is detected
7100	Total capacity error		○		
7101	Capacity code error	○	○		
7102	Connecting excessive number of units and branch boxes		○		
7105	Address setting error		○		
7130	Incompatible unit combination		○		

Note:

When the outdoor unit detects No ACK error/No response error, an object indoor unit is treated as a stop, and not assumed to be abnormal.

● Self-diagnosis function

The indoor and outdoor units can be diagnosed automatically using the self-diagnosis switch (SW1) and LED1, LED2 (LED indication) found on the multi-controller of the outdoor unit. LED indication : Set all contacts of SW1 to OFF.

● During normal operation

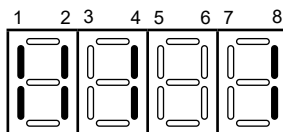
The LED indicates the drive state of the controller in the outdoor unit.

Bit	1	2	3	4	5	6	7	8
Indication	Compressor operated	52C	21S4	SV1	SV2*	—	—	Always lit

*SV2 is not equipped to MXZ-8C48NA.

[Example]

When the compressor and SV1 are turned during cooling operation.



MXZ Multi-Zone Units with Branch Box

Line In Service Manual	MXZ MULTI-ZONE UNITS WITH BRANCH BOX															
	SW1 Setting								DIGITAL DISPLAY							
	1 = ON 0 = OFF								Status Flags on Normal Display							
	1	2	3	4	5	6	7	8	1	1	1	1	1			1
0	0	0	0	0	0	0	0	0	Comp	52C	21S4	SV1	SV2			VAC
11	1	1	0	1	0	0	0	0	Abnormality code history 1 [latest]							
12	0	0	1	1	0	0	0	0	Abnormality code history 2							
26	0	1	0	1	1	0	0	0	Capacity Code of IC-1 Qj				Qj	BTU	Qj	BTU
27	1	1	0	1	1	0	0	0	Capacity Code of IC-2 Qj				4	6K	9	18K
28	0	0	1	1	1	0	0	0	Capacity Code of IC-3 Qj				5	9K	13	24K
29	1	0	1	1	1	0	0	0	Capacity Code of IC-4 Qj				6	12K	16	30K
30	0	1	1	1	1	0	0	0	Capacity Code of IC-5 Qj				8	15K	20	36K
43	1	1	0	1	0	1	0	0	Total Capacity of Thermal ON							
44	0	0	1	1	0	1	0	0	Number of Indoor Units							
45	1	0	1	1	0	1	0	0	DC bus voltage: VAC x 1.41 approximate							
52	0	0	1	0	1	1	0	0	Outdoor LEVA opening pulse: [480 in cooling Mode]							
58	0	1	0	1	1	1	0	0	63LS Low pressure sensor							
61	1	0	1	1	1	1	0	0	TH2 HIC temp sensor [liquid line near service valve]							
64	0	0	0	0	0	0	1	0	Hz Compressor operating frequency							
65	1	0	0	0	0	0	1	0	Hz Tar Compressor target frequency							
74	0	1	0	1	0	0	1	0	63HS High pressure sensor							
75	1	1	0	1	0	0	1	0	TH4 Compressor discharge temp							
76	0	0	1	1	0	0	1	0	TH6 Suction temp							
77	1	0	1	1	0	0	1	0	TH7 Ambient temp							
78	0	1	1	1	0	0	1	0	TH3 Outdoor liquid pipe [On coil distributor]							
79	0	0	0	0	1	0	1	0	TH8 Inverter heat sink temp							
	1	2	3	4	5	6	7	8								

LINE	SW1 Setting								INDOOR UNIT OPERATING INFORMATION		
	1	2	3	4	5	6	7	8			
69	1	0	1	0	0	0	1	0	IC-1	LEV	position
70	0	1	1	0	0	0	1	0	IC-2	LEV	position
71	1	1	1	0	0	0	1	0	IC-3	LEV	position
72	0	0	0	1	0	0	1	0	IC-4	LEV	position
73	1	0	0	1	0	0	1	0	IC-5	LEV	position
217	1	0	0	1	1	0	1	1	IC-6	LEV	position
218	0	1	0	1	1	0	0	1	IC-7	LEV	position
81	1	0	0	0	1	0	1	0	IC-1	TH23	Gas Pipe Temp
82	0	1	0	0	1	0	1	0	IC-2	TH23	Gas Pipe Temp
83	1	1	0	0	1	0	1	0	IC-3	TH23	Gas Pipe Temp
84	0	0	1	0	1	0	1	0	IC-4	TH23	Gas Pipe Temp
85	1	0	1	0	1	0	1	0	IC-5	TH23	Gas Pipe Temp
220	0	0	1	1	1	0	1	1	IC-6	TH23	Gas Pipe Temp
221	1	0	1	1	1	0	1	1	IC-7	TH23	Gas Pipe Temp
86	0	1	1	0	1	0	1	0	IC-1	TH22	Liquid Pipe Temp
87	1	1	1	0	1	0	1	0	IC-2	TH22	Liquid Pipe Temp
88	0	0	0	1	1	0	1	0	IC-3	TH22	Liquid Pipe Temp
89	1	0	0	1	1	0	1	0	IC-4	TH22	Liquid Pipe Temp
90	0	1	0	1	1	0	1	0	IC-5	TH22	Liquid Pipe Temp
223	1	1	1	1	1	0	1	1	IC-6	TH22	Liquid Pipe Temp
224	0	0	0	0	0	1	1	1	IC-7	TH22	Liquid Pipe Temp
91	1	2	0	1	1	0	1	0	IC-1	TH21	Return Air Temp
92	0	0	1	1	1	0	1	0	IC-2	TH21	Return Air Temp
93	1	0	1	1	1	0	1	0	IC-3	TH21	Return Air Temp
94	0	1	1	1	1	0	1	0	IC-4	TH21	Return Air Temp
95	1	1	1	1	1	0	1	0	IC-5	TH21	Return Air Temp
226	0	1	0	0	0	1	1	1	IC-6	TH21	Return Air Temp
227	1	1	0	0	0	1	1	1	IC-7	TH21	Return Air Temp
	1	2	3	4	5	6	7	8			

Connecting the MHK2



1. Connect cable from receiver to CN105 plug on indoor unit while power is off to system.
2. Apply power to system and install controller batteries.
3. Verify power light on receiver is solid green and press **CONNECT** button on receiver. Connect light will begin to flash green.
4. With connect light flashing on receiver, press **SELECT** on controller. When connection is complete **"SUCCESS"** will be displayed on controller. Press **DONE** to display the home screen.
5. Press and release the **CONNECT** button at the wireless receiver to exit wireless setup (light should stop flashing and remain solid).

****If you're using the MHK2 with the Kumo receiver, the receiver MUST be completely setup before plugging in the MHK2 to the CN105 port on the Kumo receiver****

IMPORTANT: When connecting multiple MHK2 controllers at the same location you must press the connect button on the receiver a second time to stop the connect light's flashing before moving on to the next controller.

kumo cloud™ Quick Setup



1. Install outdoor and indoor units. Connect a PAC-WHS002WF-2 Wireless Interface to the CN105 connector for each indoor unit with power off.
2. The home wireless network should already be set up. Take note of the network name and password. The Wireless Interface can only connect to a secured (password protected) 2.4ghz wi-fi network signal.
3. Download the kumo cloud app. Ensure that both wi-fi and bluetooth settings on your smart device are switched on.
4. Use the kumo cloud app to Connect a New Site.
5. Add each indoor unit and adjust settings if needed within the app.
6. When setup is complete, use the app to send an email to **Transfer Ownership** to the owner.

For more detailed installation instructions, refer to the **Technician Operation Manual** that can be found on MyLinkDrive.com

For more detailed operation instructions for the end user, refer to the **Owner Operation Manual** that can also be found on MyLinkDrive.com

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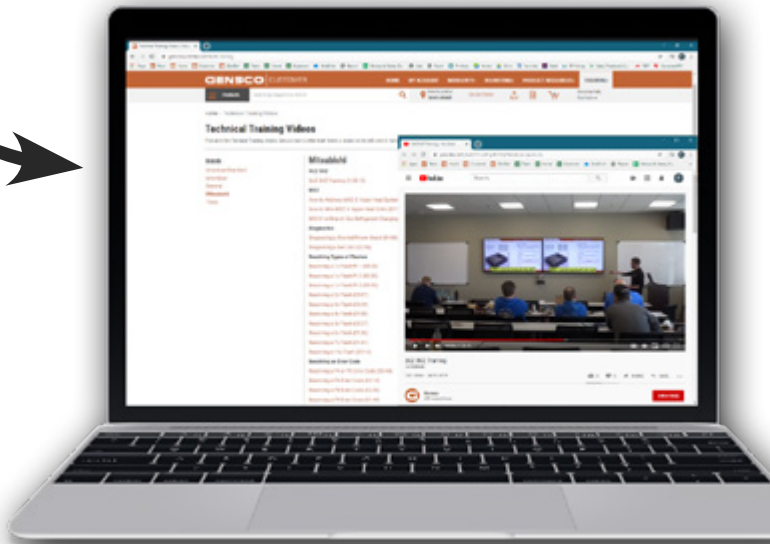
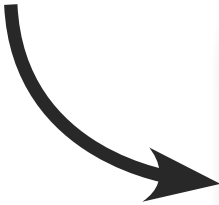


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