

Mitsubishi Electric Zoned Comfort Solution

Ductless Tab

Design Criteria

Enter the values for your region. These values are used in determining the correction factors for selected equipment. Default values can be changed in Settings.

Outdoor Unit

1) Select the outdoor unit.

Type: Select Air Conditioner or Heat Pump

Manufacturer: Mitsubishi Electric

Model – Spinner displays the Model Display Name. Model Display Name appears on the Customer quote

- BTUs, SEER, EER and HSPF Efficiency specs are nominal values.
- Registered OEM equipment parts and compressor warranty autofill. Contractor levels vary, please advise CSS of company level.
- Labor warranty is specified by the contractor.
- Efficiency specs and warranties can be edited while building a quote. Tap in the field to customize.
- Indoor Units – auto fills Minimum and Maximum allowable units

MXZ-4C36NAHZ-U1 (2899)

MXZ-5C42NA2-U1 (2703)

MXZ-5C42NA2-U1 for Air Handler

MXZ-5C42NAHZ for 2+ Air Handlers + IDUs (3501)

MXZ-5C42NAHZ-U1 (3501)

Option 2

System Components Ductless Clear

Design Criteria

	Cooling	Heating
Indoor Temp	68 °F WB	74 °F DB
Outdoor Temp	100 °F DB	-10 °F WB
Altitude	600	ft

Outdoor Unit

Type Heat Pump

Manufacturer Mitsubishi Electric

Model MXZ-5C42NAHZ-U1 (3501)

BTU Rated Cooling 42,000 Heating 48,000

SEER | EER | HSPF 19 13.42 11

Indoor Units Min 2 Max 5

Warranty

Parts	12 Year
Labor	1 Year
Compressor	12 Year

Indoor Unit Selections

Layout

Customer Company Option 1 Option 2 Option 3

Indoor Unit Selections

2) Layout the System before selecting the indoor heads.

- Tap [Layout](#)

Option 2

System Components **Ductless** Clear

Design Criteria

Cooling Heating

Indoor Temp 68 °F WB 74 °F DB

Outdoor Temp 100 °F DB -10 °F WB

Altitude 600 ft

Outdoor Unit

Type Heat Pump

Manufacturer Mitsubishi Electric

Model MXZ-5C42NAHZ-U1 (3501)

BTU Rated Cooling 42,000 Heating 48,000

SEER | EER | HSPF 19 13.42 11

Indoor Units Min 2 Max 5

Warranty Parts 12 Year Labor 1 Year Compressor 12 Year

Indoor Unit Selections

[Layout](#)

Layout

Number of Branch Boxes: 1 2 Warning: Changing branch boxes may require re-calculation

Branch Box #1: 5 Ports PAC-MKA51BC (586)

Distance to Outdoor Unit: 25 ft

Number of Bends: 5

Branch Box # 1

1 2 3 4 5

Indoor Unit Selections

1 Location: []

Distance to Branch Box: [] ft

Height Above Outdoor Unit: [] ft

Height Below Outdoor Unit: [] ft

- Number of Branch Boxes: Select one or two branch boxes if needed. If a branch box is required the app will not allow you to proceed.
- Outdoor Unit image displays
- Enter Distance to Outdoor Unit and Number of bends
- Numbered box represents the indoor unit (Tap) to display the Indoor Unit distance, height and bend input fields

3) Enter the distance, height and bend values for each Indoor Unit Selection.

- Location: Select room from spinner or add your own
- Distance to Outdoor Unit:
- Height Above or Below Outdoor Unit:
- Number of bends:
- Repeat for each Indoor Unit Selection.
- [Save](#)

Values are used for correction factors.

Software alerts will appear when values fall outside of allowable range.

Cancel Layout Save

Number of Branch Boxes: **1** **2** Warning: Changing branch boxes may clear indoor unit selections as needed.

Branch Box #1: 5 Ports PAC-MKA51BC (586)

Distance to Outdoor Unit: 25 ft
Number of Bends: 5

Branch Box #1

Indoor Unit Selections

1 Location: Bedroom #1
Distance to Branch Box: 15 ft
Height Above Outdoor Unit: 12 ft
Height Below Outdoor Unit: ft

Bedroom #1
Bedroom #2
Bedroom #3
Bedroom #4
Bedroom #5
Bath Room
Den
Dining Room

Indoor Unit Selections

4) Select Indoor Units

- Tap "#1 Box" to open *Select Indoor Unit*
- Tap the Indoor Unit style to open the Model Number spinner
- Select indoor unit
- **Save**
- Repeat for each indoor unit selection

Back Option 2

System Components Ductless Clear

Layout

Cooling BTUs 0 / 41,147
Heating BTUs 0 / 32,968

1 Bedroom #1
Cooling Heating
BTU Rated
BTU Designed

2 Bedroom #2
Cooling Heating
BTU Rated
BTU Designed

Cancel Select Indoor Unit Save

Bedroom #1

Wall-mount Wall-mount Deluxe Floor-mount
Ceiling-recessed Horizontal Ducted Multi Position Ducted

Cancel Model Number

MSZ-EF09NAB-U1 Black (461)
MSZ-EF09NAS-U1 Silver (461)
MSZ-EF09NAW-U1 White (461)
MSZ-EF12NAB-U1 Black (547)
MSZ-EF12NAS-U1 Silver (547)
MSZ-EF12NAW-U1 White (547)
MSZ-EF15NAB-U1 Black (632)
MSZ-EF15NAS-U1 Silver (632)
MSZ-EF15NAW-U1 White (632)
MSZ-EF18NAB-U1 Black (694)
MSZ-EF18NAS-U1 Silver (694)
MSZ-EF18NAW-U1 White (694)

- Progress Bar displays distribution of BTU's in the system
- BTU Rated nominal values display for each selected indoor unit
- BTU Designed values display for each selected unit

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System	Components	Ductless	
Cooling	1	2	BTUs 41,145 / 41,147
Heating	1	2	BTUs 32,966 / 32,968

1

Bedroom #1
MSZ-EF15NAB-U1 Black (632)
Cooling Heating
BTU Rated 14,000 18,000
BTU Designed 12,415 10,540

Wall-mount

2

Bedroom #2
MSZ-EF12NAS-U1 Silver (547)
Cooling Heating
BTU Rated 12,000 14,400
BTU Designed 10,641 8,432

Wall-mount

3

Bedroom #3
MFZ-KJ12NA-U1 (921)
Cooling Heating
BTU Rated 12,000 13,000
BTU Designed 10,641 7,612

Floor-mount

4

Bedroom #4
SLZ-KA09NAR1.TH (500)
Cooling Heating
BTU Rated 8,400 10,900
BTU Designed 7,448 6,382

Ceiling-recessed

Customer Company Option 1 **Option 2** Option 3

5) **Review** – tap to display the Design Considerations used to calculate corrections

More

Notes – enter system notes for the customer

AHRI – enter AHRI number if known

[Back](#) Option 2

System	Components	Ductless	
BTU Designed	12,415	10,540	

2

Bedroom #2
MSZ-EF12NAS-U1 Silver (547)
Cooling Heating
BTU Rated 12,000 14,400
BTU Designed 10,641 8,432

Wall-mount

3

Bedroom #3
MFZ-KJ12NA-U1 (921)
Cooling Heating
BTU Rated 12,000 13,000
BTU Designed 10,641 7,612

Floor-mount

4

Bedroom #4
SLZ-KA09NAR1.TH (500)
Cooling Heating
BTU Rated 8,400 10,900
BTU Designed 7,448 6,382

Ceiling-recessed

Review

More

Notes Enter customer notes for the system

AHRI

Customer Company Option 1 **Option 2** Option 3

Design Considerations					Done
Indoor Units					
Model	IDU BTU Rated	Adjustments			
		IDU Combination	Equiv. Pipe Length	Altitude	
MSZ-EF15NAB-U1 Black (632)	14,000	*	-2.0%	-2.1%	
	18,000	*	-0.6%	-2.1%	
MSZ-EF12NAS-U1 Silver (547)	12,000	*	-2.0%	-2.1%	
	14,400	*	-0.6%	-2.1%	
MFZ-KJ12NA-U1 (921)	12,000	*	-2.0%	-2.1%	
	13,000	*	-0.6%	-2.1%	
SLZ-KA09NAR1.TH (500)	8,400	*	-2.0%	-2.1%	
	10,900	*	-0.6%	-2.1%	

Model	IDU BTU Adjusted	ODU BTU Designed	ODU BTU Available	IDU BTU Designed
MSZ-EF15NAB-U1 Black (632)	13,423	41,147	13,423 / 44,486 = 30.2%	12,415
	17,502	32,968	17,502 / 54,741 = 32.0%	10,540
MSZ-EF12NAS-U1 Silver (547)	11,505	41,147	11,505 / 44,486 = 25.9%	10,641
	14,001	32,968	14,001 / 54,741 = 25.6%	8,432
MFZ-KJ12NA-U1 (921)	11,505	41,147	11,505 / 44,486 = 25.9%	10,641
	12,640	32,968	12,640 / 54,741 = 23.1%	7,612
SLZ-KA09NAR1.TH (500)	8,053	41,147	8,053 / 44,486 = 18.1%	7,448
	10,598	32,968	10,598 / 54,741 = 19.4%	6,382

* No Adjustment Applied