



Job Name:

System Reference:

Date:



Outdoor Unit: MXZ-5C42NA2

### ACCESSORIES

- ☐ 3/8" x 1/2" Port Adapter (MAC-A454JP-E)
- ☐ 1/2" x 3/8" Port Adapter (MAC-A455JP-E)
- ☐ 1/2" x 5/8" Port Adapter (MAC-A456JP-E)
- ☐ 1/4" x 3/8" Port Adapter (PAC-493PI)
- ☐ 3/8" x 5/8" Port Adapter (PAC-SG76RJ-E)
- ☐ M-NET Adapter (PAC-IF01MNT-E)
- ☐ Base Heater (PAC-645BH-E)

(For data on specific indoor units, see the MXZ-C Technical and Service Manual.)

| Specifications                            |                               |                       | Model Name                                    |
|---|-------------------------------|-----------------------|---|
| Unit Type                                 |                               |                       | MXZ-5C42NA2                                   |
| Cooling*<br>(Non-ducted / Ducted)         | Rated Capacity                | Btu/h                 | 40,500 / 37,400                               |
|   | Capacity Range                | Btu/h                 | 12,600 - 43,000                               |
|   | Rated Total Input             | W                     | 4,403 / 4,112                                 |
| Heating at 47°F*<br>(Non-ducted / Ducted) | Rated Capacity                | Btu/h                 | 45,000 / 41,000                               |
|   | Capacity Range                | Btu/h                 | 11,400 - 53,600                               |
|   | Rated Total Input             | W                     | 3,575 / 3,463                                 |
| Heating at 17°F*<br>(Non-ducted/Ducted)   | Rated Capacity                | Btu/h                 | 24,400 / 23,000                               |
|   | Rated Total Input             | W                     | 2,943 / 2,869                                 |
| Connectable Capacity                      |                               | Btu/h                 | 12,000 - 51,000                               |
| Electrical Requirements                   | Power Supply                  | Voltage, Phase, Hertz | 208 / 230V, 1-Phase, 60 Hz                    |
|   | Recommended Fuse/Breaker Size | A                     | 40  |
|   | MCA                           | A                     | 32.5  |
| Voltage                                   | Indoor - Outdoor S1-S2        | V                     | AC 208 / 230                                  |
|   | Indoor - Outdoor S2-S3        | V                     | DC ±24  |
| Compressor                                |                               |                       | INVERTER-driven Scroll Hermetic               |
| Fan Motor (ECM)                           |                               | F.L.A.                | 2.43  |
| Sound Pressure Level                      | Cooling                       | dB(A)                 | 56  |
|   | Heating                       | dB(A)                 | 58  |
| External Dimensions (H x W x D)           |                               | In<br>mm              | 41-9/32 x 37-13/32 x 13<br>(1048 x 950 x 330) |
| Net Weight                                |                               | Lbs / kg              | 189 (86)                                      |
| External Finish                           |                               |                       | Munsell No. 3Y 7.8/11                         |
| Refrigerant Pipe Size O.D.                | Liquid (High Pressure)        | In / mm               | 1/4 (6.35)                                    |
|   | Gas (Low Pressure)            | In / mm               | A: 1/2 (12.7) ; B,C,D,E: 3/8 (9.52)           |
| Max. Refrigerant Line Length              |                               | Ft / m                | 262 (80)                                      |
| Max. Piping Length for Each Indoor Unit   |                               | Ft / m                | 82 (25)                                       |
| Max. Refrigerant Pipe Height Difference   | If IDU is Above ODU           | Ft / m                | 49 (15)                                       |
|   | If IDU is Below ODU           | Ft / m                | 49 (15)                                       |
| Connection Method                         |                               |                       | Flared/Flared                                 |
| Refrigerant                               |                               |                       | R410A   |

\* Rating Conditions per AHRI Standard:

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB  
Cooling | Outdoor: 95° F (35° C) DB / 23.9° C (75° F) WB

Heating at 47°F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB  
Heating at 47°F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

Heating at 17° F | Indoor: 70° F (21° C) DB  
Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB



Size  
Approximate location  
of Condenser

















Location  
of  
GAS  
meters

30"





## Variance Criteria Justification

10.233.21 The variance will not be contrary to the public interest;

The purpose of the mini-split system is to air condition and heat my house in the most efficient manner available to us. Rather than multiple, inefficient air conditioners hanging out a variety of windows (and eventually ending up at the dump), the mini-split would seem to have the least impact on the public interest and more directly, my immediate neighbors. The proposed location is in an area so small as to be rendered inconsequential for landscaping or any use other than access to the property,

10.233.22 The spirit of the Ordinance will be observed;

The area described is well under the standard setbacks. It is an older property that does not conform to other zoning regulations as currently exist. The addition of the split system does not make an area that has no real use any less useful. Several years ago the gas company moved the gas meters to this side of the house rendering this access even more restricted than its original configuration. A further impediment should not be a greater problem.

10.233.23 Substantial justice will be done;

Until 2 years ago my wife and I rarely used air conditioning. Recently, whether due to age or climate change, summers seem to have become hotter and more humid. A mini-split allows for separate spaces to be cooled as opposed to central air which would be extremely costly to retrofit in an old house. It can also be used as a supplemental and more efficient heating system. We have always worked on renovations to the house that make it more efficient to heat and cool. It is our belief that this will lower our impact on the environment and use of fossil fuels.

10.233.24 The values of surrounding properties will not be diminished;

While I would not call a condenser unit pleasing to the eye, it is less of an eyesore than 4 or 5 window units hanging out the side of my unit. The condenser is as quiet as 1 unit so it will have a lower impact on the noise level



near my adjacent neighbor. Because we will be able to run the refrigeration lines in through a basement window, no visual impact will be on the outside of the building other than the condenser unit. The visual impact will be entirely on the side next to us and not from any other area of the street or other neighbors. I cannot imagine how this could negatively affect anyone else's property values but rather serve as an example of what can be done in an older home to improve efficiency and comfort.

10.233.25 Literal enforcement of the provisions of the Ordinance would result in an unnecessary hardship.

I have had 3 separate installers come to the property and make estimates. All agreed that this is the only spot that makes sense from a practical and aesthetic standpoint, Because I live in a condo it cannot go on any common area property. There is a porch in the front of the house but it cannot go under that. The proposed location offers the easiest and most direct route into the house while impacting my neighbors the very least. Without this variance, there is no way to install the mini-split system. While not having efficient and less noisy air conditioning system may not seem like a hardship, I feel that the need for this system will only grow every year.