



## **Mitsubishi Electric MXZ-\*C\* Series Connection Rules**

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### **Introduction**

This application guide defines connection rules for MXZ-\*C\* series product to all indoor units styles including SVZ multi-position air handlers and PEAD products. Rules below refer to standard product install configurations with or without use of Separate Power Block Terminal (SPTB1).

This document is intended as supplementary to information provided in installation and service manuals specific to MXZ-\*C\* units. For additional information please consult these manuals. Product manuals are available online at [www.mitsubishitechinfo.ca](http://www.mitsubishitechinfo.ca).

*Please follow all Canadian, provincial and local installation and service code requirements during installation. All electrical work should be performed by licensed electricians.*

### **MXZ-2C20NA, 3C24NA, 3C30NA, 4C36NA, 5C42NA, 2C20NAHZ, 3C24NAHZ and 3C30NAHZ**

- 1) Minimum 2 indoor units must be connected. Minimum 12k Btu must be connected.
- 2) 14/3 600V rated wire from condenser to each indoor unit is required.
- 3) Systems may connect to indoor units up to 130% of rated nominal capacity. Systems using SVZ style indoor unit may only connect up to 100% rated nominal capacity.
- 4) Only 1 SVZ may be connected per outdoor unit.
- 5) When connecting SVZ, connection of only 1 other indoor unit is allowed per MXZ unit.
- 6) If system includes SVZ no P-Series (PEAD etc.) indoor units may be connected.
- 7) Maximum 2 PEAD units may be installed per MXZ outdoor unit. More than two is not permitted.
- 8) 1:1 SVZ connection to MXZ outdoor unit is not a supported combination.

### **MXZ-8C48NA, MXZ-4C36NAHZ, 5C42NAHZ, 8C48NAHZ**

- 1) Minimum 2 indoor units utilizing 12k Btu must be connected, branch box(s) required for these models. Maximum 2 branch boxes can be connected per outdoor unit.
- 2) 16/2 Shielded M-Net wire runs from Condenser to branch box for communication.
- 3) 14/3 Romex or equivalent minimum 300V copper wire must be used from branch box (if applicable) to each indoor unit.
- 4) SPTB1 separate power supply acceptable for indoor unit power connection.
- 5) More than 2 SVZ may be connected if SPTB1 power supply kit is used on each indoor unit. On each branch box 2 multi-position AHU are connectable with no other units. When 1 SVZ is connected a maximum of 1 SEZ / PEAD unit is allowed.
- 6) Branch box systems using SVZ style indoor unit may only connect up to 130% nominal outdoor unit capacity. Maximum 2 SVZ units may be connected per branch box.
- 7) Up to 3 SEZ or PEAD style units may be connected per branch box (when no SVZ included in system). When 3 SEZ/PEAD style units are connected to a single branch box no other indoor units may be connected to the branch box.

- 8) When system includes even 1 PLA-A\*EA7 4-way cassette unit on MXZ-8C48NA, 4C36NAHZ, 5C42NAHZ, 8C48NAHZ maximum connectable number of indoor units decreases as follows: 6 for MXZ-8C48NA, 3 for MXZ-4C36NAHZ, 4 for MXZ-5C42NAHZ and 6 for MXZ-8C48NAHZ

**SPTB1 – Separate Power Supply Terminal Block**

Optional kit for providing separate power supply to individual indoor units. 1 Kit required per indoor unit.

MXZ systems using branch boxes may connect any number of multi-position air handlers (following other rules stated above) with SPTB1 on each indoor unit. S2 and S3 communication wiring must be connected from branch box to indoor unit when using SPTB1.

For MXZ installations not including a branch box, S2 and S3 communication wiring must still be connected to outdoor unit. Refer to install manual for SPTB1 for further information.