

Technical Note

August 27, 2018

To: Diamond Service Group Members

From: Technical Services Department

Subject: Blue Diamond Pumps

Diamond Service Group Member,

The Technical Services team is committed to supporting our valued DSG partners. This technical note is to address the appropriate wiring of Blue Diamond pumps when connected to a Mitsubishi MXZ branch box style system.

Applicable Models: All MXZ systems using a branch box

Symptom:

Communication errors or 71** error codes reported at outdoor equipment or controller.

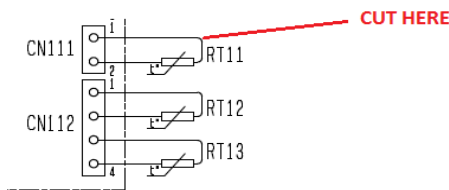
Cause:

Blue Diamond pumps use a heated thermistor to monitor for high water level. In order for the NC (normally closed) safety contacts to close the thermistor needs to heat up. It can take up to 2 minutes to heat to the proper temperature and then close the contacts.

Solution:

Wire the NC safety circuit from the pump in series with one of the indoor thermistors. Best practice is to solder the connection, or use butt splice connector.

****DO NOT BREAK THE S1, S2 or S3 WIRES TO THE INDOOR UNIT OR ERROR WILL OCCUR****



If you should have any additional questions or concerns, please contact your local METUS Area Service Manager.

Very Best Regards,

Technical Services Department
MITSUBISHI ELECTRIC TRANE US LLC, INC.
Cooling & Heating Division