

Custom 5 Zone Variable Speed Injection Module (VSM)

This bulletin covers the changes to the VSM controls to accommodate a 5 fifth zone. The program is designated VSM5 version 5.00.

Refer to the regular program manual for the VSM. Very little has changed other than what is described below.

The heat exchanger thermistor for freeze protection is not available. From a program standpoint, the program looks at the return thermistor and creates an error if the return temperature is below the freeze setting. During freeze conditions, zone pumps are turned off but injection pump and boiler TT remain on.

Zone 5 pump relay is a 12vdc relay (same as Zone 4). If either one ever needs replacing, contact Vortex for a replacement. Relay coil current draw and minimum pull-in voltage are critical for proper operation of the VSM and protection of the iStat6 main control.

An 8-gang relay board (green) is used to isolate the thermostat inputs from the iStat6 control. One to five are used for the thermostats and eight is used for boiler TT. Six and seven are spares and can be used if any of the other relays fail.