

ANNOUNCEMENT

Changes to snowmelt (SM) and variable injection radiant heating pump (VSM, VSMX) modules

The iStat6 control program used in the snowmelt, VSM and VSMX pump modules has been upgraded. Old program version (2) was VIM4_2.## and new program version 3 will be VIM4_3.##.

Variable Speed Injection

Zero to ten vdc variable speed control is now available for injection pumps that support it, such as, Alpha1 UP26-99. The system will try to maintain supply temperature within 0.5 deg.C by varying the control voltage to the injection pump. For all other types of pumps, the injection pump will be cycled on and off as in previous control versions.

A maximum speed setting is available if additional injection pump throttling is required. This feature can also be used to test the injection pump through its full speed range.

Injection pump speed can be seen on the display as a percentage of full ON.

Fluid Differential Limits

The supply temperature can be temporarily reduced to control the rate the slab is heated. If the return slab temperature plus the maximum differential temperature setting (Return + MAX_DT) is less than the supply temperature setting (Supp_SP), the supply target will be reduced and the display will show "SuppLmt" (supply limit). The current target supply setting can be seen on the display as "Sup_Tst".

Freeze Protection

The primary relay for the boiler and primary pump (if connected) will now come on when a freeze condition is detected at the sensor on the heat exchanger. The injection pump will run (as before) and the slab pumps will be shut off (as before) until the freeze condition is fixed.

Boiler Control during Idle

For control version 2.22 and earlier, the primary relay (primary pump and boiler) were always on during idle mode. For control version 2.23, the primary relay only comes on with the injection pump (when heat is needed). On version 3.##, it is now field selectable. The default is AUTO – boiler only comes on with the injection pump. It can be changed to HOT_BLR (hot boiler) in ADMIN.

Control Version Compatibility

New controls version VIM4_3.## will function normally on old snowmelt and VSM/VSMX systems with all the features described above except variable speed injection. Old controls version VIM4_2.## will function normally on any new snowmelt and VSM/VSMX systems that use a standard on/off injection pump. Old controls can be reprogrammed by Vortex.