



SOFTWARE RELEASE NOTES

MCS-MAGNUM

Version 17.23Y

01/19/2017

Updates from previous versions: 17.23X

New Features:

1. All Firmware Version - Add refrigeration R448a into the pressure to saturated temperature charts.
2. REF Firmware only - Add support for VFD control compressor when setup for temperature comp staging instead of the voltage staging.
3. MHRC firmware only - Use setpoint #165 to set the comp speed when in defrost. If setpoint #165 is not active then force the comp speed to 75%.
4. MHRC firmware only - change the pump failure alarms to use the relay names so we get "CLDWtrPmp" or "HotWtrPmp" failure alarm. This way we know which pump failed. Before it would just generate a "Pump Failure" alarm (used the setpoint name).

Bug Fixes:

1. REF Firmware only - Correct issue with EXV bump logic in recip_circuit_hgs_loaded function. The test to skip the exv bump was in the wrong spot, it was skipping incrementing the state timer not the bump. Therefore the exv bump would always occur.
2. REF firmware only - Correct issue with cond fan control on reverse cycle defrost unit. The cond fan were shifting to reverse control when the state was set to "Defrost Starting Comp". Cond fan need to stay in normal control and wait for the "Defrost Starting Comp" state to finish before going into reverse cycle backward control mode.
3. REF firmware only - correct issue with comp non-rotation logic not working - when lead comp set to 1 (non rotating) the comp would still rotate.
4. MHRC firmware only - Correct issue with chilled water pump not turn on when in heating only mode and we go to defrost.

Any questions regarding this release, contact:

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5. CPM: As per BWW changed CHL_PUMP_DOWN state text and all its definitions because the chillers are staging OFF, and not pumping down. New #defined is CHL_STAGING_OFF
6. CPM.c: Ting reported that all the CW and CND pumps went OFF after the CPM's R/S was set to stop even through there were 2 chillers running and needed to be in CHL_STAGING_OFF.

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