



SOFTWARE RELEASE NOTES

MCS-MAGNUM

Version 17.23J

08/12/2016

Updates from previous versions: 17.23I

New Features:

1. WIP MHRC New feature: Separate COOL & HEAT -> In/Out Sensors and control SI.
2. EXV code: Added Fast EXV code improvements done by JGW.
3. Moved `ok_to_bump_close_exv` & `ok_to_bump_open_exv` to a common file (EXV.c). Need to use in all SW types.
4. CENT only - add logic to allow the config to define min/max wanted % by comp stage and to define the value to set the wanted % to when it transition. Using lookup table to define these parameters.
5. CENT & MHRC New Feature: Continued working on Moving `ok_to_bump_close_exv` & `ok_to_bump_open_exv` to a common file (EXV.c). Need to use in all SW types.

Bug Fixes:

1. CPM NAPPS NYC: Pump Groups were staying Disable after a lockout condition like no In&Out temp sensors. Lockout reset did not work, only way to get it running is by cycling power.
2. CPM: Disable chillers when chiller water pump is disable due to a no flow condition.
3. CPM: When a pump comes ONN we need to bypass the no flow safety for number of seconds specify in `time_to_bypass_safety_test` of SP 57 . Problem reported by Brian Reed, Released 17.23I3 for testing.]
4. RTU.c -> JGW reported that we were displaying an incorrect reheat delay timer for circuit 4 at SNU OK AAON. 5 compressors 3 suction groups.

Any questions regarding this release, contact:
support@mcscontrols.com

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5. Modified comment for better understanding of where the field is saved in the cfg
6. pulse_loader() Function -> Corrected test that checks if is ok to bump open exv.
7. All SW: Tandem EXV's. During startup, both EXV states get set to "Pre Pump down" (Using the EXV's to pump down the unit). EXV 1 remains at 0% for the duration of the pump down. But EXV 2 gets set to the start%, ignoring the pump down...
8. RTU only: Moved changes that were done in commit f00e5b72b97c2e7203b94f9952186d8d6682dc07 to make sure that it is ok to bump the exv when the cmp is loading or unloading.
9. We are now using a common function to ensure that it is ok to BUMP the EXV. This functions test to see if SP_EXV_LOAD_UNLOAD_ADJUST is active. Removed test from general code
10. Logic Change: Increment the speed of the compressor to 100% during flush to prevent built up oil and refrigerant in the reheat coil due to 2% leakage rate with their stepper valves. This change was requested by Kevin Teakell - AAON

Released Version 17.23J

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