



SOFTWARE RELEASE NOTES

MCS-MAGNUM Version 17.60I 05/16/2019

Updates from previous versions:

New Features:

Bug Fixes:

1. All Firmware Versions - Saturated Temp conversion was blocked at -40.0 when table goes down to -120. Change min to -120.
2. Add more entries into the saturate table for 507, add -50 down to -80F.
3. Turbocor firmware issues - When the Magnum isn't controlling the balancing valve or staging valve the logic will just instantly start a new compressor when needed. This is causing bearing trips on the starting compressors when one or more are already running. The current fix is to add a dummy balancing valve to force the logic into waiting for PSI Ratio before starting the needed compressor. We had this discussion with Brian but I think we should still look for PSI ratio regardless of having or not having control of these valves. I've observed a couple different Turbocor units in the field and they take a long time to back down. In some cases it took 1-2 minutes of the Magnum unloading before the Turbocor - or began to drop RPM.
4. HVAC 17.60-H Proc Pump Freeze Protect Issue - We're having an issue with the pump freeze protection logic in the latest HVAC firmware:

PROCESS PUMP, Setpoint #57 Active, states that when the ambient falls below setpoint = Run the pump. There are 2 issues present:

- 1: Process pump will ONLY turn on if the chiller pump has been enabled (by leaving water temp sensor falling below setpoint #102). If the leaving water temp sensor is above setpoint, keeping the chiller pump off, then the process pump will not run.

Any questions regarding this release, contact:
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2: When the run/stop = ON, process pump logic (normal staging) will NOT work at all. Process pumps will NOT run unless the ambient is below setpoint #57.

Logic needs to look at the chiller pump, and process pump, independently. If Run/Stop = OFF, and ambient falls below setpoint #57 --> Run Process Pump Logic. Ambient rises above setpoint #57 + setpoint #192 --> Disable Process Pump.

Chiller pump logic seems to be operating as it should, looking at the leaving water temp value.

5. JGW reported that his home unit was doing a big/unnecessary adjustment after CMP_EXV STARTUP.

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