



SOFTWARE RELEASE NOTES

MCS-MAGNUM

Version 17.40

02/06/2018

Updates from previous versions:

New Features:

1. New Feature: added test to low discharge superheat unloading logic for new option in cfg that lets the user choose whether or not to unload comp on lo dsh. New option is in MCS-Config_18.01I release.
2. All Firmware - EXV Fast and FAST 2 logic were not call the low discharge superheat EXV target modification logic. Add call to low discharge superheat target modification into fast and Fast 2. The other exv logic, old superheat, evap level and cnd level where already calling the low disch target modification function.
3. New feature - HVAC firmware only - allow the config to control the safety unloading pulse on and delay between pulses for stepless slide control. if setpoint #56 is setup as "TARGET" type, then the hi zone field defines on the ON time to pulse the unloader relay during a safety unloading condition. And setpoint #56 low zone defines the delay between pulses.

Bug Fixes:

1. LookUp Table & SI Modbus are not converting correctly - value been read from the MBC is not working. SI 1-4 and 1-12 "MBC?Elong" are the modbus value being reading from MBC. They will range from -32767 to +32767. Reading this a 16 bit register no decimal place. The value being read from modbus were read and displayed correct.
2. Reported receiving "Unknown" Alarms on units with Touchscreens and Modbus I/O communications. After analyzing the Diagnostics/Alarm files we think that the alarm pointer is getting corrupted by two threads trying to generate an alarm at the same time.
3. EXV startup routine: Reported by JGW Acumtica case #262 "We come out of startup at 22 seconds. Set Point 20 is 180 seconds. System should not look at current values

Any questions regarding this release, contact:

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until 90 seconds" Changes: After reviewing the current logic with BWW and JGW we agreed to change the logic to get out of startup if exv state timer is greater than the time delay in which the EXV valve is allowed to open before the compressor starts + 20sec and the SH is above the target for Evap level control or below the target for all the other control types.

Version Updated to 17.40

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