**Release Notes**

Build 62000663-1-20-0013

**Issues Addressed**

**New Equipment Configurations Supported**

* 20 Ton Standard Efficiency unit configuration
* SCR Electric Heat
* 1.2M MBH Gas Heat
* External Heat
* Rapid Restart
* External Fan Control (Supply & Relief)
* LON Communication
* BAYSENS 800 Programmable Sensor

**New Features & Enhancements**

* Enhancements to improve Memory Management
* Added Max Heat via Heat Cool Mode Request. A commanded Max Heat mode will drive the unit to full supply fan speed.
* Added Variable speed compressor Current limit
	+ Applies to multiple compressor circuits with a variable speed compressor
	+ The VSPD compressor will be limited to a lower operating speed to limit the VFD current. If there is a need to lower the current still, Limit control action stages off a fixed speed compressor to decrease variable speed current limit.
	+ The objective is to reduce circuit capacity, which reduces discharge pressure and variable speed compressor motor current to prevent VFD current limit control.
* Modulating Airflow – Modulating Airflow is now supported for all Modulating Heat Types (VVDA, CVDA units)
* PSIG –Now supported as a unit of pressure
* Single EXV Enhancements
* Dual EXV Enhancements
* Local Zone Panel Enhancements
	+ Customers that do not have a local: Heating Setpoint, Cooling Setpoint, Mode Input, Temperature Input; will no longer see warning diagnostics in the alarms.
* Space Temperature Control – added Discharge Air Temperature Limits
	+ To create flexibility in SZVAV Space Temperature Control, a user settable, Discharge Air Temperature Minimum Cool/Heat Limits & Discharge Air Temperature Maximum Cool/Heat Limits are provided. These points allow the user to limit the control calculated the Discharge Air Temperature setpoint within the specified ranges. These limits can be set through BACnet or the TD7.
	+ New points/settings:
* Discharge Air Temperature Maximum Heat Limit
* Discharge Air Temperature Minimum Heat Limit (new)
* Discharge Air Temperature Maximum Cool Limit (new)
* Discharge Air Temperature Minimum Cool Limit
* Superheat High Limit Lockout
	+ This function detects excessive refrigerant loss by comparing suction superheat to a high limit threshold.
	+ The detection method reduces the potential for nuisance trips by providing a startup ignore time that is a function of the outdoor air temperature. This approach helps to mitigate false detection trips because low suction saturated temperature and high superheat is normal following startup at low outdoor air temperature conditions.
	+ This feature can be enabled/disabled, in the TD7 & TU , for extreme operating condition applications (such as data centers) that are susceptible to false trips.
	+ There is a settable threshold that can be set in the TD7 & TU which allows adjustment between 50F – 65F. This threshold allows the user to make changes to help prevent nuisance trips.
* Improved part-load unit efficiency, please change the following *Service Setting* changes for existing units.
* Cond Fan Control Cool Diff Press Setpt- New value = 90 psid   (620.53 kPa)
* Cond Fan Control Reheat Diff Press Setpt- New value = 250 psid   (1723.69 kPa)
* Cond Fan Control Cool Press Ratio Setpt- New value = 1.55
* Updated Diagnostic Handling
* Support for Outdoor Airflow Calibration Gain and Offset parameters