Bulletin | Danfoss Turbocor Compressors

ENGINEERING
TOMORROW

Customer Notification

B-CN-442-EN Rev A

March 24, 2026

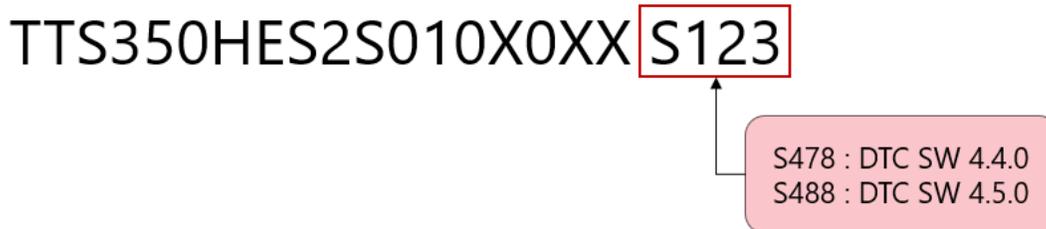**SUBJECT: TT/TG Series Compressor Software Configurations Update**

Purpose

This bulletin is to inform our customers that we are releasing new BMCC software configurations. These new releases, S478 and S488, are available for firmware versions 4.4.0 and 4.5.0, respectively. Effective March 24, 2026, these new configurations will become the newest software option when ordering a new TT/TG Series compressor. Previous configurations will continue to be available.

Please refer to bulletin B-CN-306 for more information regarding the changes and improvements that have been made in firmware versions 4.4.0.

➢ **B-CN-306 TT Series 4.4.0 Firmware Release Notice**

The compressor Type Code defines the software option via the last four characters as shown in the following example:

TTS350HES2S010X0XX S123

S478 : DTC SW 4.4.0
S488 : DTC SW 4.5.0

Figure 1 - Type Code

For more information regarding the overall Turbocor® Variant Configuration public online configurator tool located at store.danfoss.com and the ordering process, please refer to customer bulletin:

➢ **B-CN-164-EN Nomenclature Update & Variant Configuration**

Summary

This bulletin is intended to inform customers of updates to the configurations for 4.4.0 and newly released 4.5.0 FW.

The maximum speed limit has been adjusted in firmware versions 4.4.0 and 4.5.0 for the following models to ensure that the actual motor speed does not surpass our published limits: TTS350, TGS310, TTS450, TGS380. These adjustments will not affect compressor performance or surge and choke boundaries, as this limit is a safeguard to prevent abnormal compressor operation.

4.5.0 Firmware Improvements
The 4.5.0 firmware includes additional improvements to the control system. These updates improve operational stability, reduce nuisance faults, and ensure reliable operation across varying ambient conditions.

A 20-second timer delay has been added to the SCR Ripple Voltage fault to allow the compressor to tolerate momentary input power phase imbalance or ripple disturbances without triggering an SCR Ripple Voltage Fault and Generator Mode. This improvement helps prevent unnecessary trips while maintaining appropriate system protection.

Additionally, the Discharge Pressure Sensor Fault has been disabled during Idle and Startup to prevent false fault conditions caused by very low discharge pressure, which can occur in extremely low ambient environments. When the compressor returns to normal operation, the Discharge Pressure Sensor Fault remains fully enabled to ensure proper sensor functionality and continued system protection.

Action Required

Customers are requested to reference the Excel file named "**Software Configurations with BMCC PNs**", which has now been added to turbocoroem.com. Authorized users can navigate to www.turbocoroem.com and select "OEM Login." Select "Compressor Software" and then select "Configurations". From there, you can download the excel file. This file will allow customers to quickly determine the corresponding BMCC part numbers applicable to the new firmware versions to ensure proper identification and implementation.

Need Assistance

For further questions, please contact your Key Account Manager or email us at dtcapplications@danfoss.com.