

Bulletin | Danfoss LLC

Customer Notification

B-CN-315-EN REV A

July 17, 2023

SUBJECT: TGS380 and TTS450 Compressor Product Release

Purpose

This is to inform our customers that the new **TGS380 and TTS450 Turbocor® compressors** have been released and are available for order. The new compressors deliver industry-leading performance for demanding air-cooled and water-cooled chiller applications.



The TGS380 has a nominal capacity of 110 tons / 388 kW at typical air-cooled conditions or 111 tons / 389 kW at typical water-cooled conditions. The TTS450 has a nominal capacity of 146 tons / 514 kW at typical air-cooled conditions or 154 tons / 541 kW at typical water-cooled conditions.

Both models offer an expanded operating map that enables operation for air-cooled chillers in high ambient temperatures up to 52C (125F) and water-water heat pumps / heat recovery generating up to 68C (154F) water temperature. Their expanded capability in high ambient temperatures also provides lower chiller costs by reducing the number of compressors in the chiller to achieve the desired capacity.

As with all Turbocor compressors, low GWP refrigerant options are available for use. The TGS380 is optimized for use with low-GWP refrigerants HFO1234ze and R515B, while the TTS450 model is optimized for use with R134a and low-GWP R513A.

Summary

The new TGS380 and TTS450 compressors are now available for ordering by Turbocor OEMs. The standard lead time for these new compressors is six (6) weeks initially.

Danfoss Turbocor Technical Publications have been updated to include the new compressors and can be found on our website (www.turbocoroem.com).

There are new spare part kits that are specific to the new models. These new kits are as follows:

100050-26	IGV DRIVE ASSY SILVER THROAT
100392	IGV THROAT, SILVER
100309-15	SCR COOLING MANIFOLD

TGS380 and TTS450 Compressor Configuration

The TGS380 and TTS450 Series compressors will be configured as a major revision "H" compressor and will come with 4.4.0 firmware. Both compressors are now available to order using our Variant Configuration system available on [North America Tallahassee Factory Sales | Homepage \(danfoss.com\)](https://danfoss.com/north-america-tallahassee-factory-sales).

TGS380HES2S010X0XX **S428**

4.4.0 General OEM Software

Action Required

Customers wishing to purchase the new TGS380 and TTS450 Series compressors can contact their Key Account Manager to determine pricing. Customers should visit [North America Tallahassee Factory Sales | Homepage \(danfoss.com\)](https://danfoss.com/north-america-tallahassee-factory-sales) to configure their compressor according to their specifications. With compressor pricing and Type Code defined, customers can place an order with Danfoss Customer Service at turbocor.cs.na@danfoss.com.

As a result of the product launch, many of the manuals and guides provided by Danfoss LLC have been modified. These include:

- M-AP-001-EN Applications and Installation Manual Rev T.1
- M-SV-001-EN TTS/TGS/TTH/TGH Service Manual Rev H
- M-SP-001-EN TT and TG Spare Parts Manual Rev H

Please reference these new manuals going forward for all TT Series compressors.

Need Assistance

For more information, please contact your Key Account Manager or our Product Support group at turbocor.ps.na@danfoss.com.