

Danfoss extends TTH/TGH compressor range for heat pump applications

Danfoss, the world's leading manufacturer of oil-free compressor technology, has extended the operating range of Turbocor® TTH/TGH compressors with a medium temperature version that can operate in heat pump applications such as **air-water heat pump and water-water heat pump systems**. The expanded operating map of the TTH/TGH medium temperature version can generate hot water temperatures up to 68°C for water-water heat pump chiller and 50°C for air-water heat pump applications. In addition, this new model offering can support higher lift applications such as air-cooled chiller operation at high ambient temperatures, low temperature process, and thermal storage applications.



Two versions are available: the nominal 107-ton model TTH375 and the nominal 82-ton model TGH285. Consistent with Danfoss' view on sustainability, environmentally friendly refrigerant options are available for TTH models using either R134a or low-GWP, non-flammable R513A and for TGH models using ultra low-GWP HFO1234ze and R515B.

With these new models, end users can take full advantage of the benefits of oil-free, magnetic bearing, centrifugal compressor technology including higher efficiency, **lower sound levels, compact footprint**, and lighter weight versus comparable screw compressors. As with all Danfoss Turbocor® compressors, the oil-free technology maintains consistent performance with **no degradation over the life of the**

compressor.

“The new Danfoss Turbocor® TTH and TGH compressors give chiller manufacturers a new high-efficiency, oil-free compressor option for use in heat recovery, and heat pump applications,” said Ricardo Schneider, president and CEO, Danfoss Turbocor® Compressors. “Up until now, positive displacement compressors have been the commonly-used compressors in these applications. But now, for the first time, chiller manufacturers have an oil-free option that can significantly boost part-load efficiency by as much as 40 percent and reduce noise by as much as 8 dBA in an oil-free platform with no performance degradation over the life of the product. Plus, the available low-GWP R-513A and ultra-low GWP HFO-1234ze and R515B refrigerant options on the Turbocor® TTH and TGH models provide a future-proof, environmentally friendly solution today that complies with evolving refrigerant regulations and standards around the world.”

The Danfoss Turbocor® oil-free compressor range includes a wide portfolio of components approved for oil-free systems and the widest application expertise for higher system reliability.

For more information about Danfoss Turbocor® Compressors, please visit www.turbocor.danfoss.com.

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www.airconditioning.danfoss.com

Photo caption:

Danfoss Turbocor® TTH (R134a and R513A) and TGH (R1234ze and R515B) compressors

Danfoss engineers technologies that enable the world of tomorrow to do more with less. We meet the growing need for infrastructure, food supply, energy efficiency and climate-friendly solutions. Our products and services are used in areas such as refrigeration, air conditioning, heating, motor control and mobile machinery. We are also active in the field of renewable energy as well as district heating infrastructure for cities and urban communities. Our innovative engineering dates back to 1933 and today Danfoss is a world-leader, employing 24,000 employees and serving customers in more than 100 countries. We are still privately held by the founding family. Read more about us at www.danfoss.com

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