ENGINEERING
TOMORROW

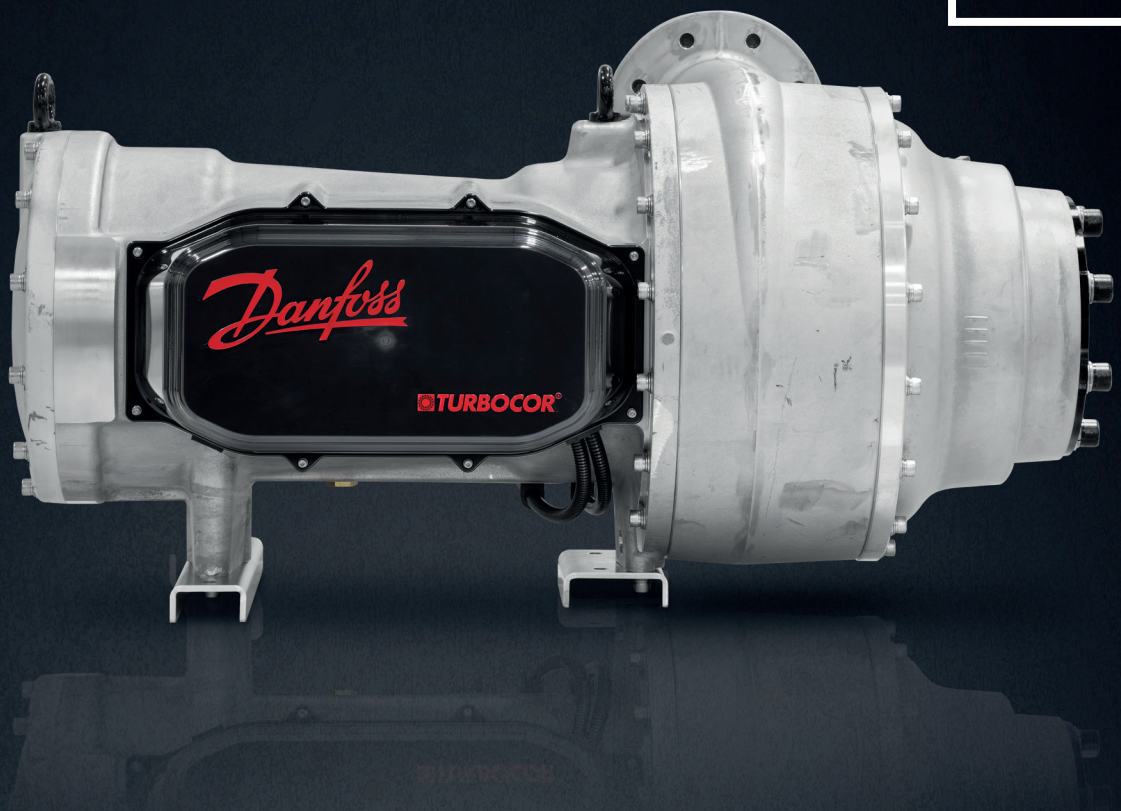
Danfoss Turbocor® VTX Compressor

Delivering industry leadingefficiency using **oil free technology** for **water-cooled** applications

The Danfoss Turbocor® VTX oil-free, magnetic bearing compressor, optimized for water-cooled applications.

Zero Performance Degradation

for the life of the compressor

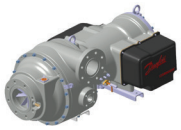


www.turbocor.danfoss.com | TURBOCOR®

The Danfoss Turbocor® Portfolio of Oil-Free Compressors

Model VTX1600

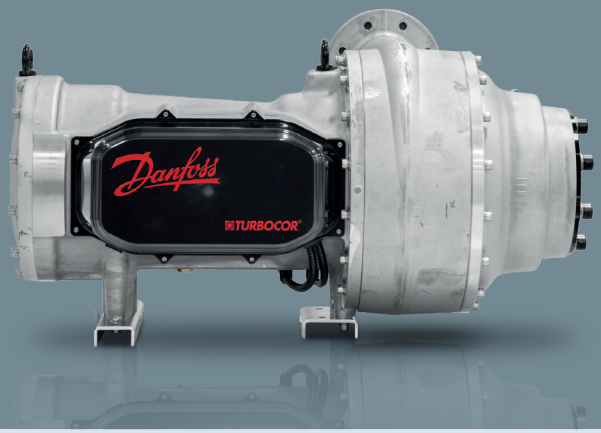
Design flexibility is standard on the **VTX1600** with 3 discharge connection options available.



Horizontal Discharge
Rotated 0˚ (Standard)

Angled Discharge
Rotated 45˚

Downward Discharge
Rotated 90˚

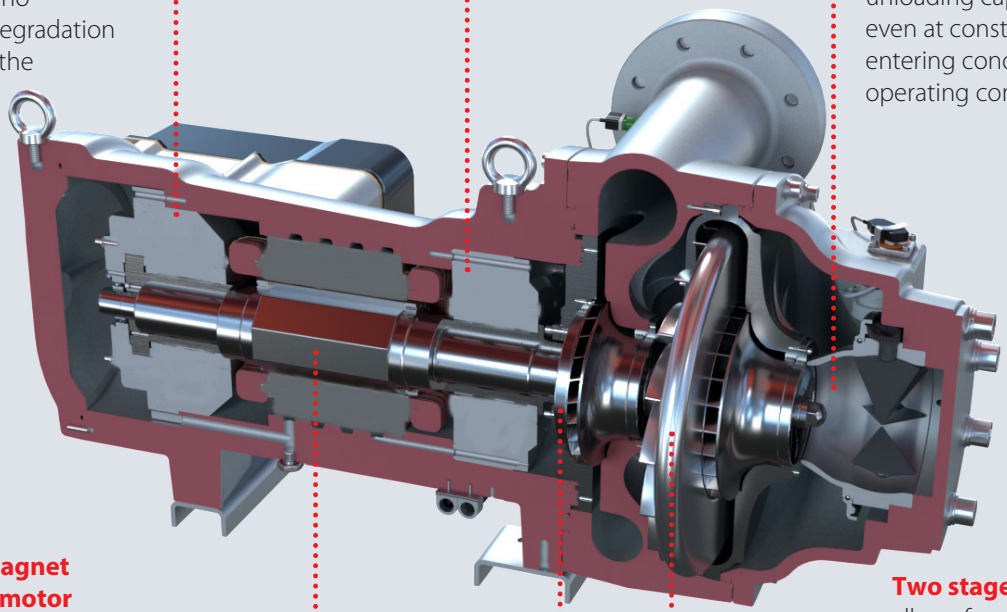


The Danfoss Turbocor® **VTX1600** compressor brings the benefits of oil-free, magnetic bearing technology to larger capacity chillers. The 450 ton / 1600 kW nominal capacity rating allows for a multiple compressor configuration up to 3600 tons / 12,660 kW or larger.

The VTX1600 compressor, optimized for water-cooled chiller applications, uses an advanced aero design that gives industry leading full-load efficiency with no performance degradation over the life of the compressor. Combined with the **advanced** IGV design, the VTX1600 provides outstanding unloading capability even at constant entering condenser operating conditions.

Oil-free, magnetic bearings and integrated variable speed drive delivers industry leading efficiency with no performance degradation over the life of the compressor.

Advanced aero design provides extended unloading capability even at constant entering condenser operating conditions.



Permanent magnet synchronous motor provides high efficiency and enables compact design.

Two stage compression allows for stable operation over a wide range of application conditions.

High Performance Alternative to Screw Compressors

The VTX compressor is more efficient, quieter and requires less maintenance then screw compressors. The VTX compressor is more efficient, quieter and requires less maintenance than screw compressors. All these features translate to a lower total cost of ownership and less customer complaints.

More efficient

Up to 40% better part-Load efficiency versus fixed speed screw compressors

Low noise

~8 dBA quieter

Less maintenance

Fewer maintenance tasks as a result of elimination of the oil management system

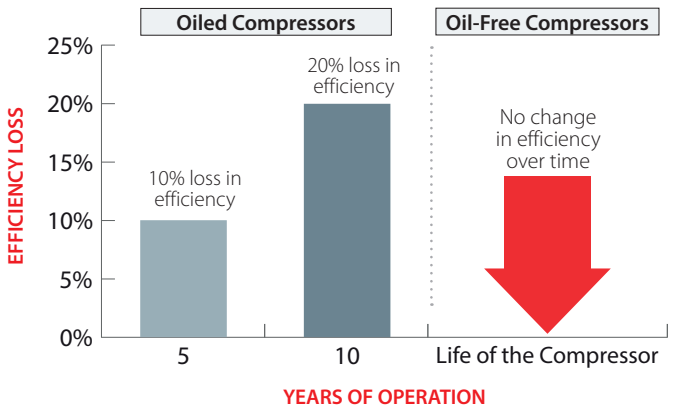
Oil free

Zero Performance degradation over the life of the compressor

Zero Performance Degradation

Oil free, magnetic bearing compressor technology eliminates complex oil and refrigerant lubrication management systems resulting in a simplified chiller design, increased reliability and reduced maintenance.

Performance Degradation Over Time*



Source: Tsinghua University Study 2014

Simplify the chiller decision making process with the **Danfoss ChillerROI** app

The Danfoss ChillerROI app simplifies the decision-making process by allowing you to estimate the return on investment ROI) using a few pieces of basic information. Simply enter the parameters into the app, and you'll get a side-by-side comparison that displays the expected long- and short-term costs Then, you can choose the best chiller for the situation. Visit turbocor.danfoss.com to download the ChillerROI app from Google Play and iTunes Stores.

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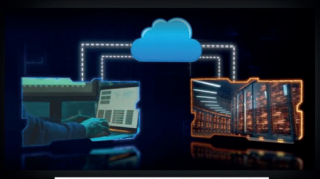
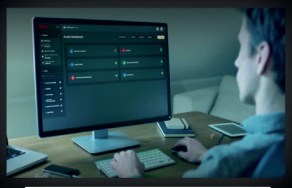
Over 150 unique parameters at the fingertips of Turbocor experts 24/7

The web-based dashboard collects compressor information to provide powerful insight into your compressor and chiller system performance.



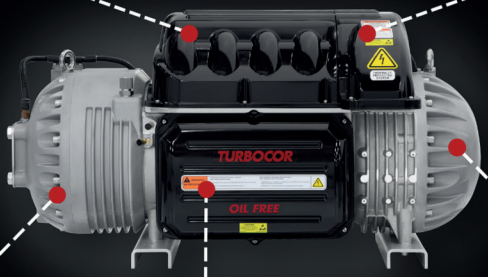
Remote Assist

Downloadable compressor fault & event logs and live data shared with anyone, anywhere



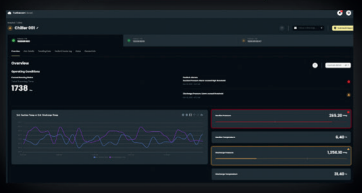
Notifications

Emailed notifications of compressor fault status allow technicians to be proactive



Provides live and historical data for all connected compressors in one location

Dashboard



Quick and easy analysis for user specified time periods

Trending Analysis

Health Reports

A compressor summary that features performance, energy usage, and trends in monthly or quarterly snapshots

Scan for more information

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