

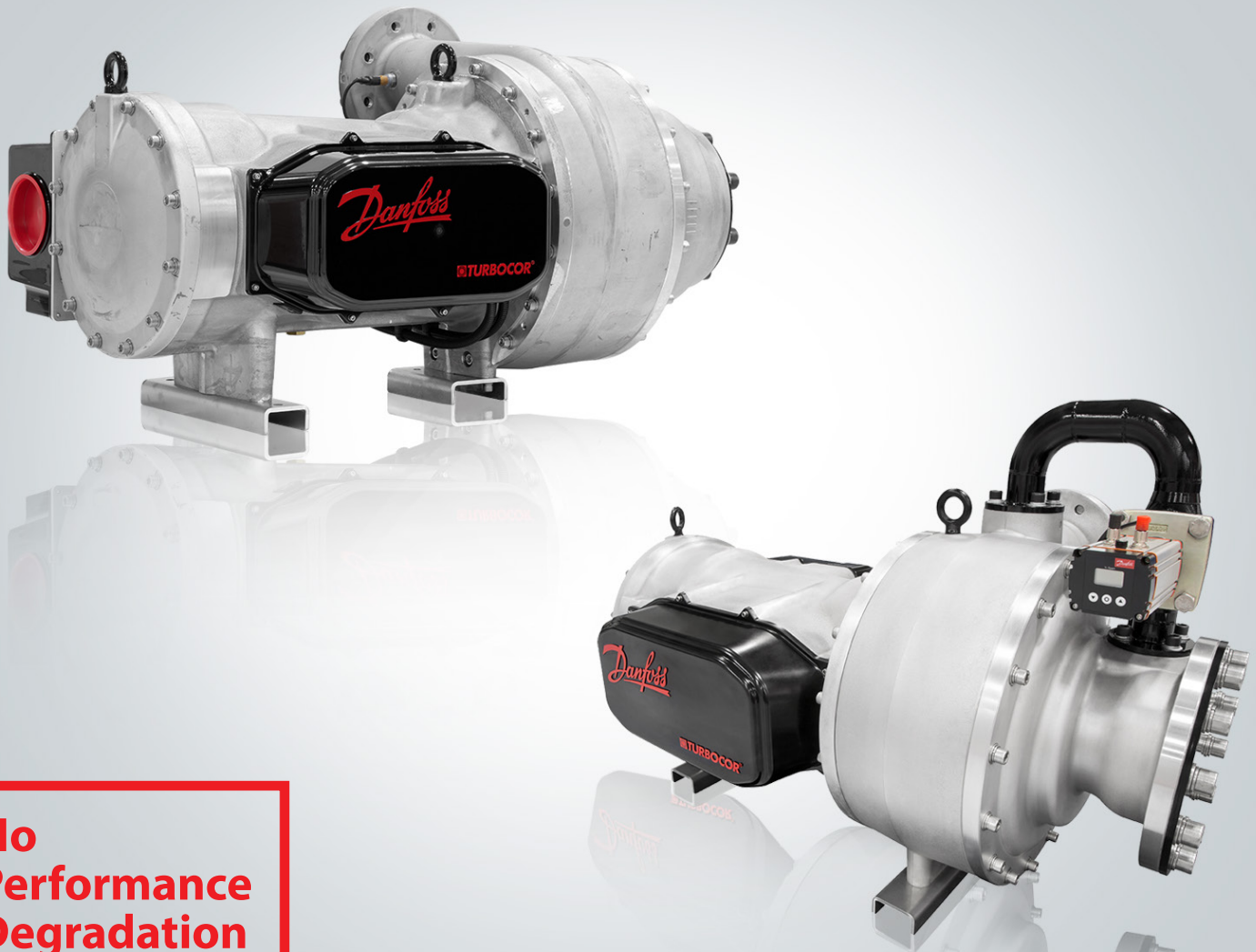
ENGINEERING
TOMORROW

Danfoss

Danfoss Turbocor® VTT and VTX Compressor

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

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



**No
Performance
Degradation**

for the life of the
compressor

The Danfoss Turbocor® Portfolio of Oil-Free Compressors

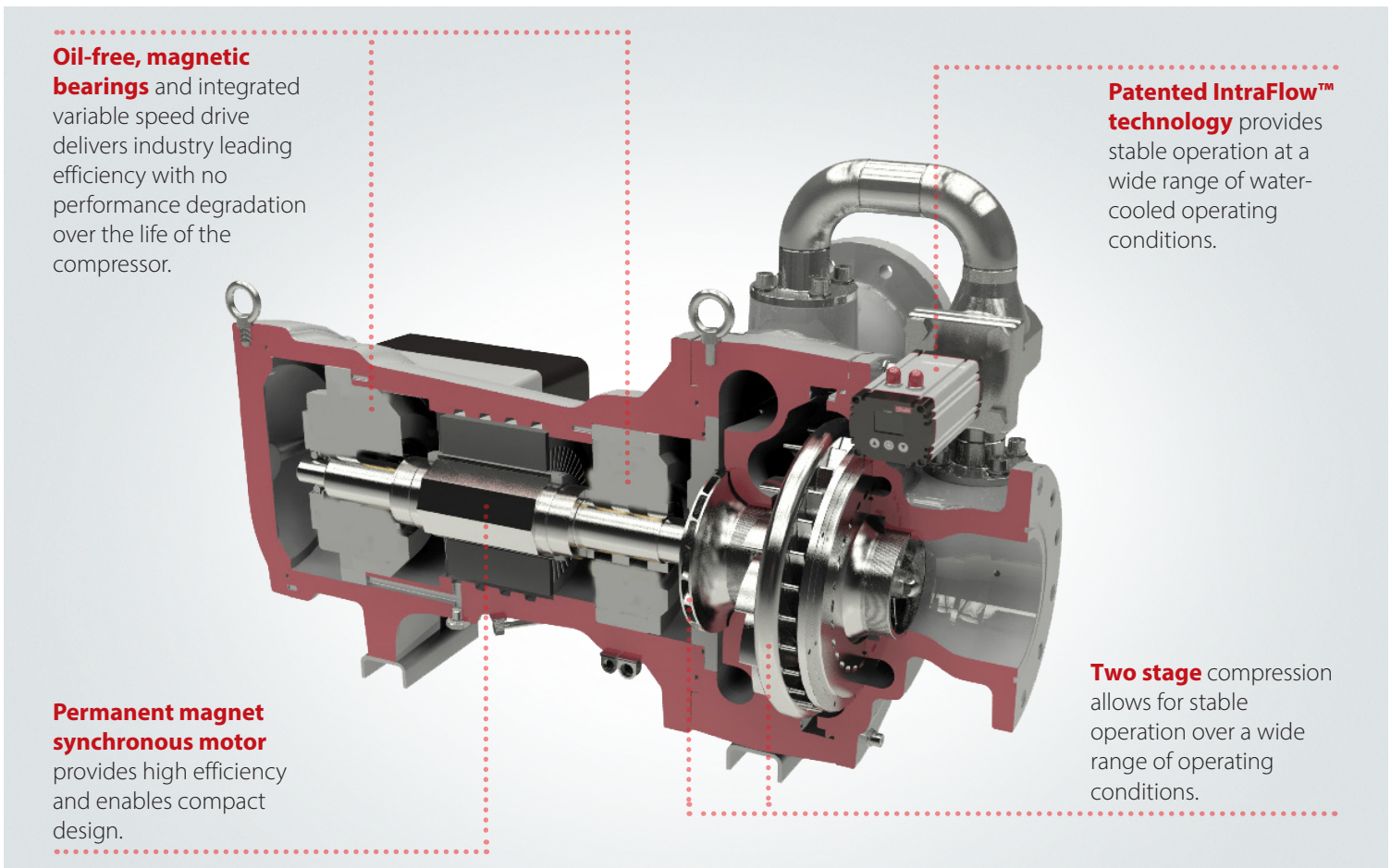
Model VTT1200



The Danfoss Turbocor® **VTT1200** (Variable Twin Turbo) compressor brings the benefits of oil-free, magnetic bearing technology up to 400 tons / 1430 kW. The large capacity design results in an oil-free chiller system up to 3200 tons / 11,250 kW or larger in a multiple compressor configuration.

The VTT1200 compressor, optimized for water-cooled chiller applications, uses the patented IntraFlow™ technology which extends the stable operating range and increases the turn down capability of the chiller.

The result is a compressor that minimizes the risk of surge while maintaining peak full- and part-load efficiency.



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

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

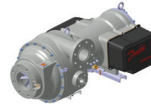
Patented IntraFlow™ technology provides stable operation at a wide range of water-cooled operating conditions.

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

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°



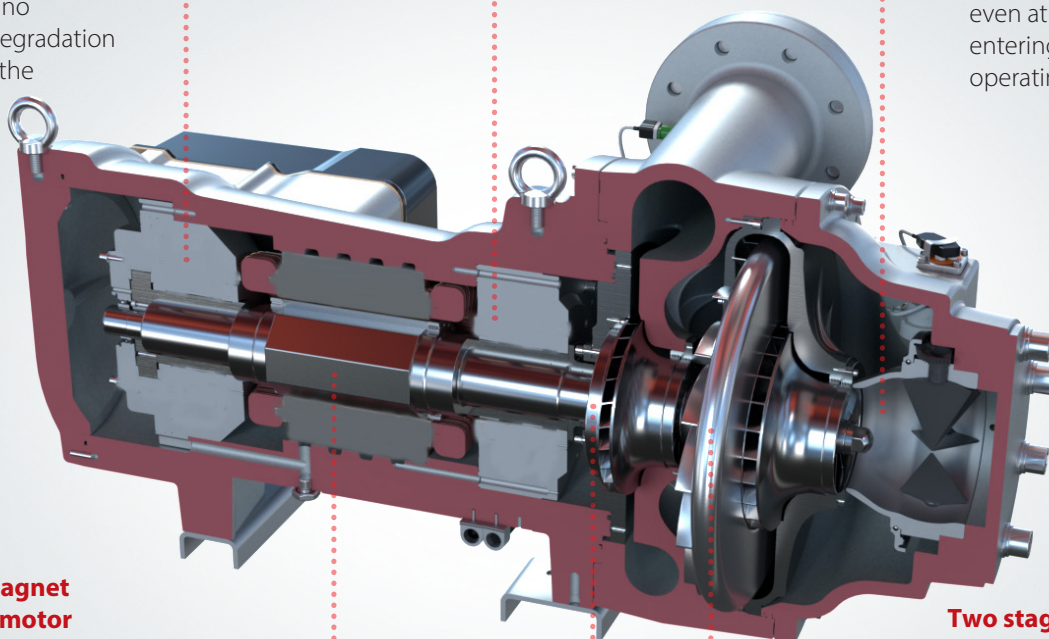
Downward Discharge
Rotated 90°

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.

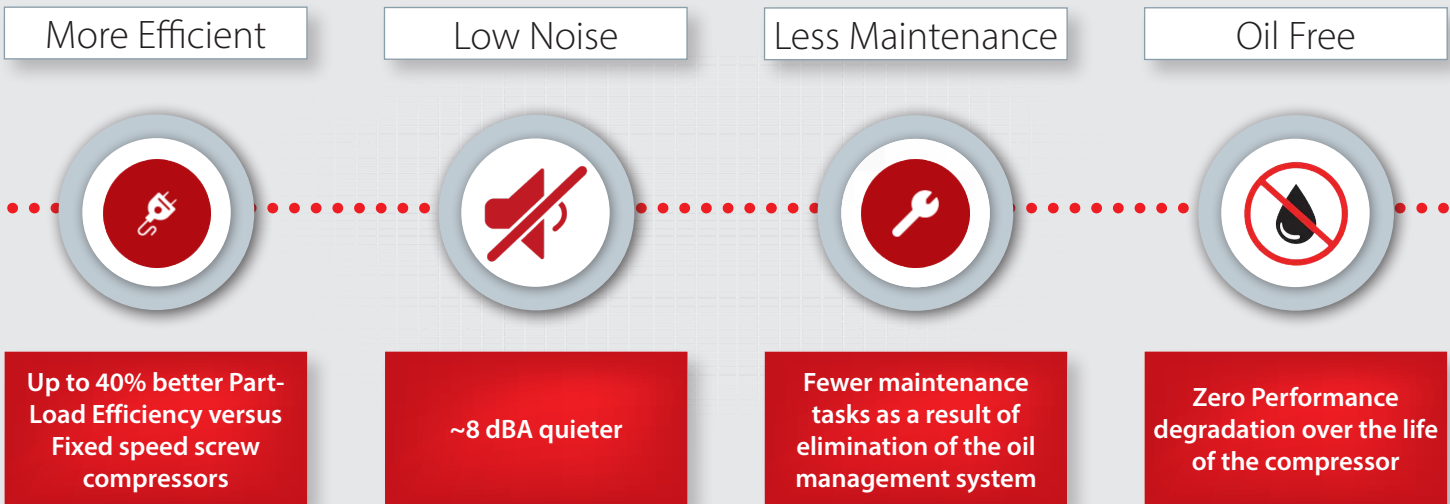


Permanent magnet synchronous motor provides high efficiency and enables compact design.

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

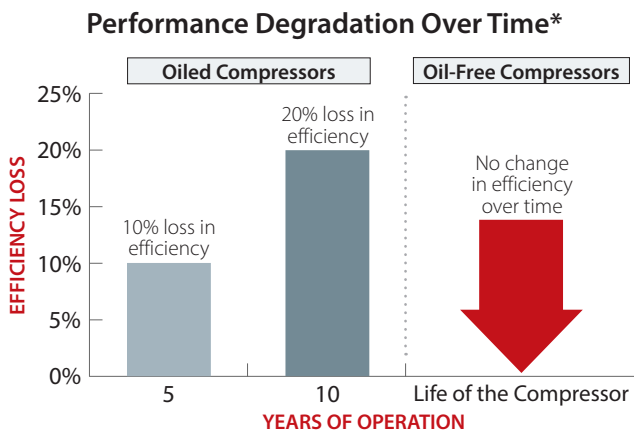
High Performance Alternative to Screw Compressors

The VTT / VTX compressor is more efficient, quieter and requires less maintenance than screw compressors. The VTT / 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.



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.



*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.

