

ENGINEERING  
TOMORROW

*Danfoss*

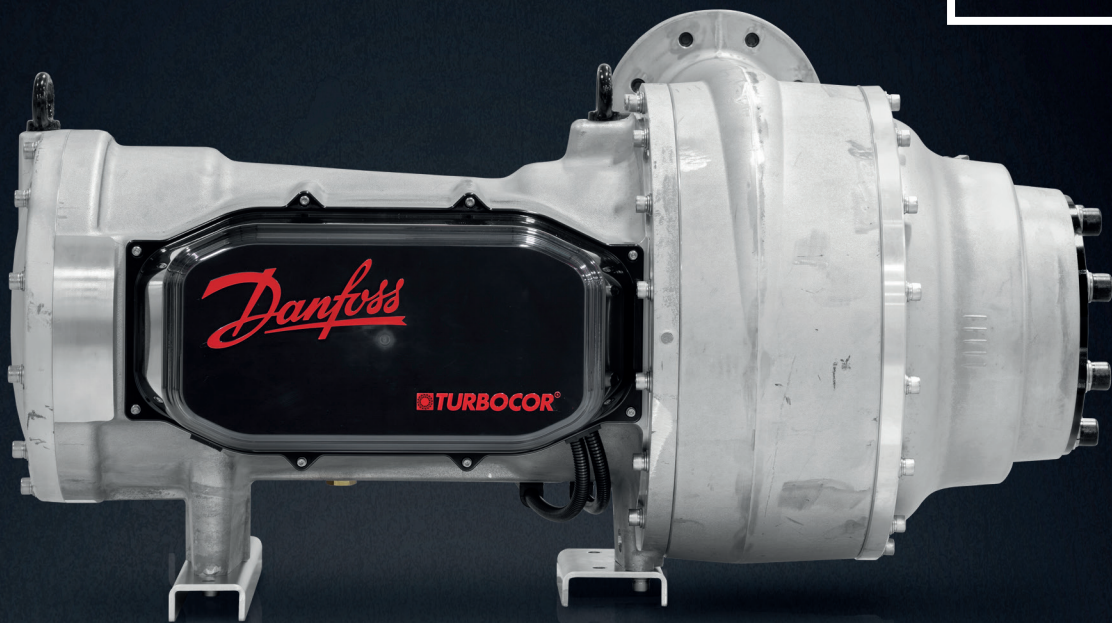
Danfoss Turbocor® VTX Compressor

# **Delivering** industry leading efficiency 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](http://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.



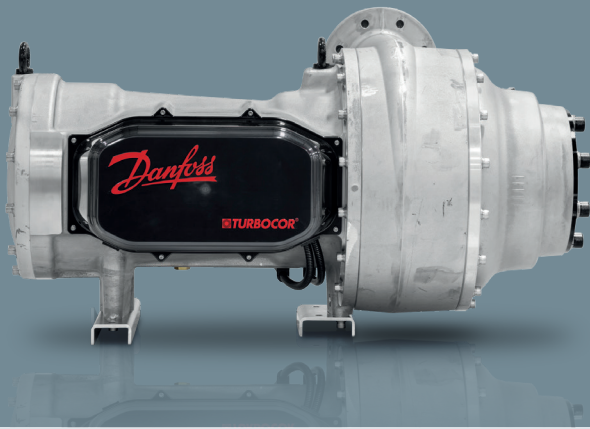
Horizontal Discharge  
Rotated 0° (Standard)



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.

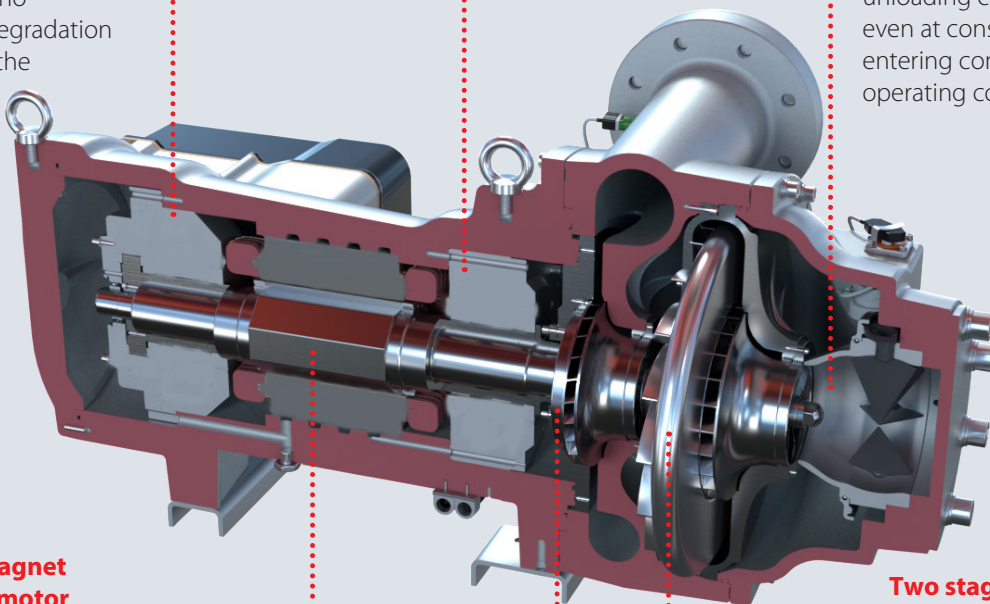
The VTX1600 compressor, optimized for water-cooled chiller applications, uses an advanced aero design that gives industry leading full-load efficiency with no performance degradation over the life of the compressor. Combined with the **advanced** IGV design, the VTX1600 provides outstanding unloading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

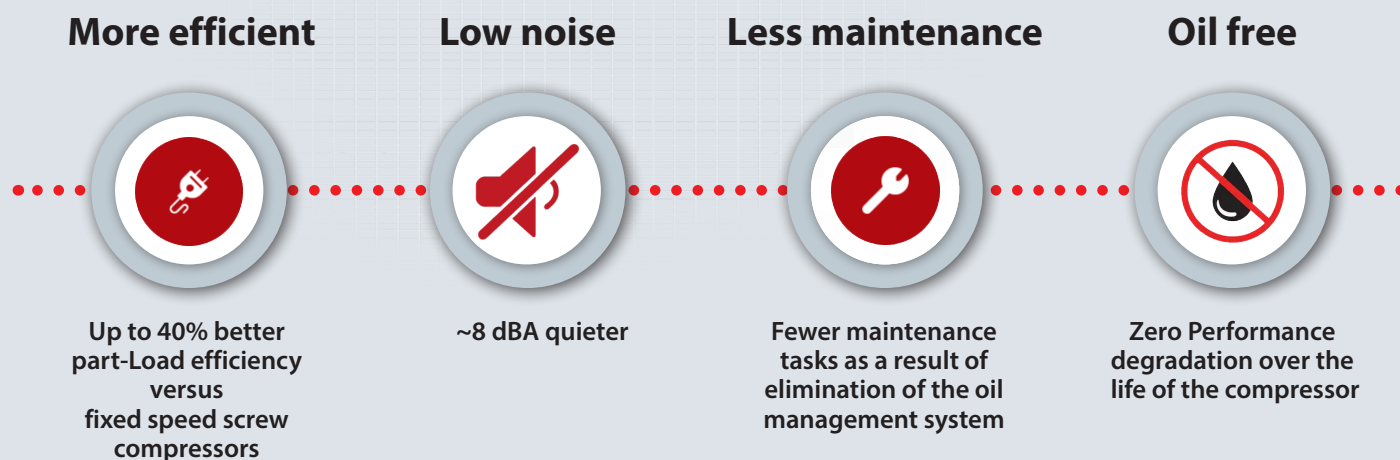
**Two stage** compression allows for stable operation over a wide range of application conditions.





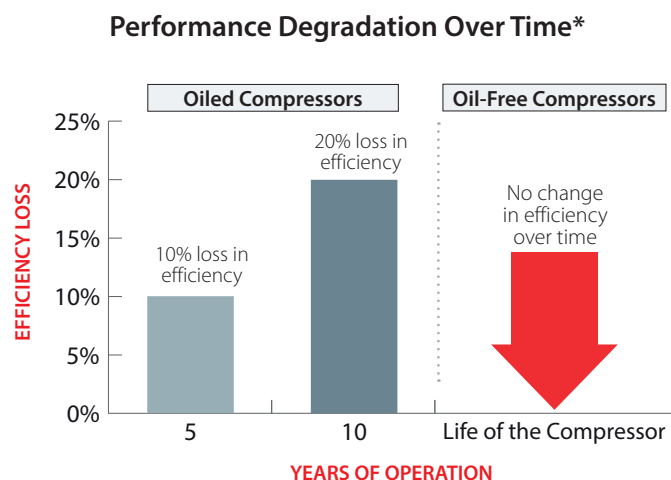
# High Performance Alternative to Screw Compressors

The VTX compressor is more efficient, quieter and requires less maintenance than 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.



## 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

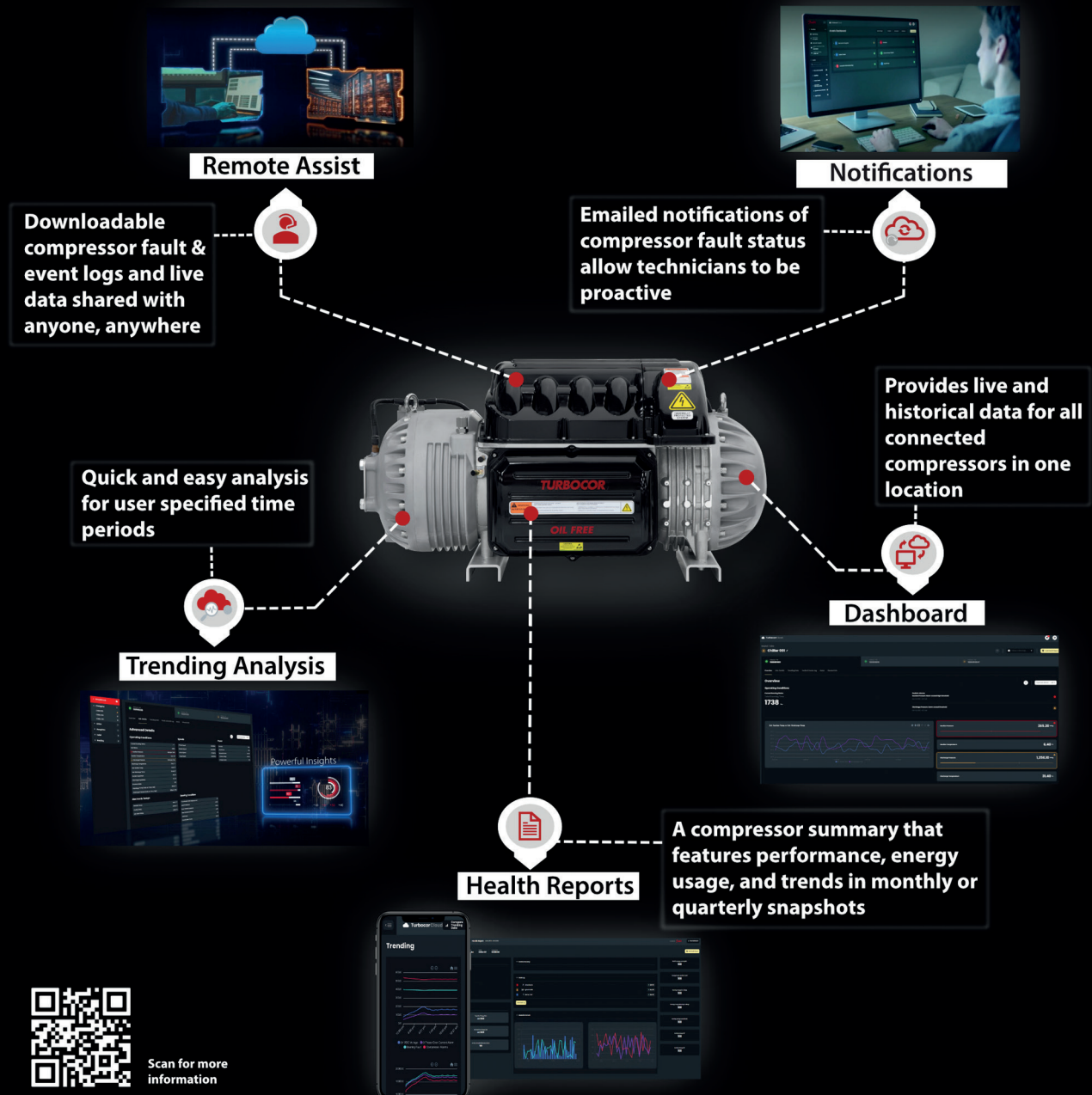
## Simplify the chiller decision making process with the **Danfoss ChillerROI** app

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](http://turbocor.danfoss.com) to download the ChillerROI app from Google Play and iTunes Stores.



# 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.



Scan for more  
information

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.