



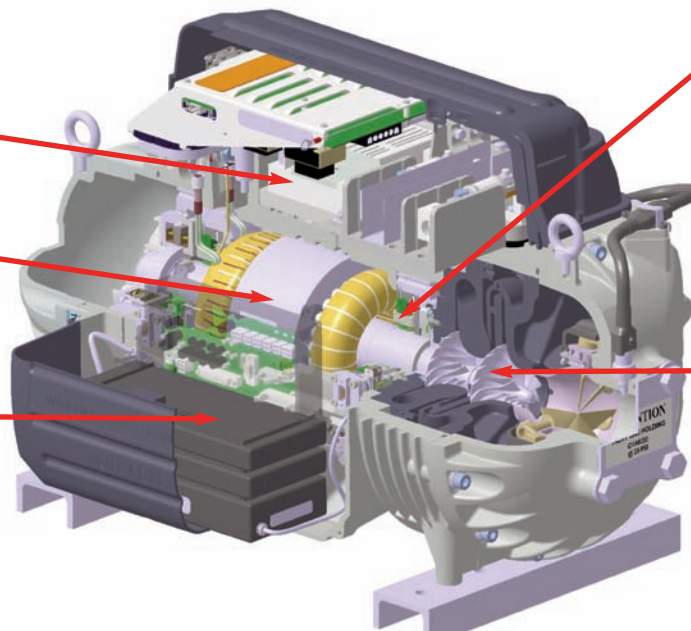
# The Turbocor Family of Compressors

## Model TT300

A VFD (Variable Frequency Drive) built in as a standard providing unmatched part-load efficiency.

A permanent magnet motor which cuts size and weight while increasing efficiency.

A fully functional computer to provide control plus high level monitoring and diagnostics.



Oil-free magnetic bearings provide quiet and reliable operation. No need for oil, reduces maintenance and eliminates the complexity, cost and reliability issues of oil-based designs.

Two Stage, Direct Drive, Hermetic Centrifugal compressor with unshrouded impellers resulting in high efficiency at full load and extraordinarily high efficiency at part load conditions.

### A 250 to 320 kW nominal capacity compressor that is:

**60%+ More Efficient:** A compressor 60%+ more efficient than other compressors in its size range. And this exceptional performance can be monitored, either on site or remotely via a state-of-the-art monitoring diagnostics system.

**Totally Oil-Free:** Oil-free operation is something the industry has worked decades to achieve. This *oil-free* design eliminates not only the potential for efficiency robbing oil contamination, but also all of the oil management accessories: oil heaters, oil pumps, oil separators, oil filters, etc., plus oil disposal.

**Extremely Lightweight:** TT300 compressor weighs only 120 kg, approximately 1/5th the weight of conventional compressors. Further, this compressor only requires about half the space of a traditional compressor.

**Extraordinarily Quiet:** At an operating sound level; the compressor is so quiet that, given typical equipment background noise, one literally cannot hear it run.

**Redefines Soft-Start:** The TT300 compressor redefines soft-start, drawing less than 2 amps, compared to 500-600 amps required by conventional compressors using across-the-line starters.

*Making a world of difference*

Visit our website at [www.turbocor.com](http://www.turbocor.com)  
to learn more about this and other Danfoss Turbocor products.

# Unprecedented Energy Efficiency

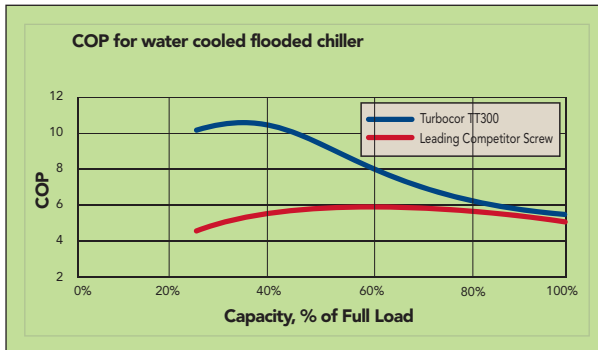


Chart 1

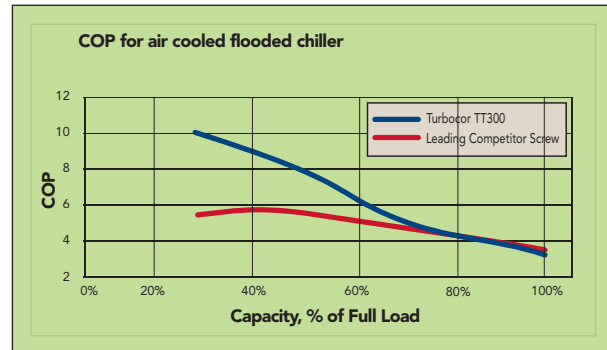
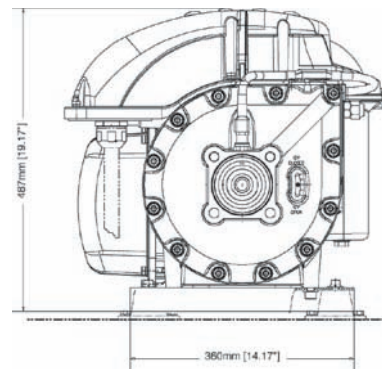
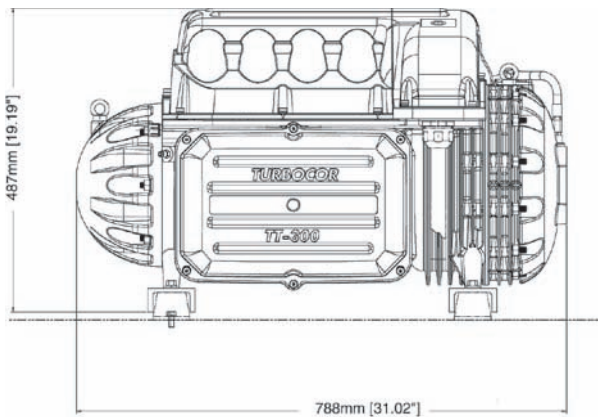


Chart 2

Outstanding energy savings from digitally controlled, frictionless two-stage centrifugal compression means significant reductions in operating cost and environmental emissions associated with energy production.

Chart 1 shows the full and part load performance curve of the Turbocor compressor compared with a typical screw compressor on a 265kWR (75-tonR) water cooled chiller. The integrated part load values (IPLV) yield a 60%+ improvement in many applications.

Chart 2 shows the full and part load performance curve of the Turbocor compressor compared with a typical screw compressor on a 265kWR (75-tonR) air cooled chiller. The integrated part load values (IPLV) yield a 30%+ improvement in many applications.



Length .....	788 mm (31.02")
Width .....	518 mm (20.40")
Height .....	487 mm (19.19")
Compressor weight ..	120 kg (265 lbs)
Refrigerant .....	R-134a
Sound .....	70dBA at 1.5m (5')



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