

Turbomiser from Geoclima is the most energy efficient chiller of its type on the market, reducing energy costs by up to 50% compared with traditional chillers. Thanks to its oil-less magnetic bearings, service and maintenance costs are dramatically reduced.



Turbomiser chillers have been designed and developed to optimise the **centrifugal magnetic levitation compressor Turbocor**, with both

R134a and HFO1234ze. These compressors have proven to have unprecedented quality, performance and durability. For 20 years, Geoclima has been actively cooperating in the development of these compressors and has been awarded as **Danfoss Turbocor Platinum Partner**.

Designed to reduce energy consumption, minimise or avoid leaks, reduce refrigerant charge, ensure reliable operation and deliver quiet running, Turbomiser has continuously evolved while maintaining its efficiency, using **the best components** available today on the market

- **Inverter-controlled magnetic bearing compressors** whose output can be precisely matched to load;

- **Micro-channel aluminium condensers**, that reduce refrigerant charge while increasing the effectiveness of heat exchange;
- **Flooded evaporators** that ensure optimum heat transfer between refrigerant and water;
- **Inverter driven condenser fans** to match performance to demand and reduce energy consumption;
- **A sophisticated chiller control system** that integrates with that of the onboard integral compressor control to optimise performance of the system as a whole.

New concept of Soft Start

It requires less than 5 A to start, compared to 500-600 A required by conventional chillers.

Compact and lightweight

The Turbocor compressor weighs ca. 120 kg and needs less than half the space of a compressor of the same capacity.

Extremely quiet

At full load operation, Turbocor compressor produces only 67 dBA.

Multiple Compressors

Chillers with more than one Turbocor compressor can benefit from great energy savings, as the Turbocor compressor provides incomparable energy efficiency at partial load conditions. An installation where the refrigeration load is split among different machines not only saves money, but also ensures the necessary redundancy.

TMA

Air cooled



Up to 2400 kW

Up to 25530 mm

TMA ES

Air cooled with Evaporative System



Up to 2500 kW

Up to 24020 mm

TMA FC

Air cooled with Free Cooling



Up to 1200 kW

Up to 12910 mm

TMA CM

Air cooled with cylindrical condensers



Up to 2400 kW

Up to 21800 mm

TSA

Condensing unit



Up to 2400 kW

Up to 25530 mm

TMH

Water cooled



Up to 2500 kW

Up to 6000 mm

TSE

Condenserless water chiller



Up to 2400 kW

Up to 6000 mm

RCE

Remote condenser



Up to 1660 kW

Up to 10500 mm