



## NEW: TurboChill FreeCool

Typical applications

- > Precision air conditioning
- > Comfort cooling
- > Process cooling

### TurboChill FreeCool - superior efficiency

For the ultimate in energy efficient chiller solutions, the new TurboChill FreeCool combines the unparalleled efficiency of centrifugal Turbocor compressor technology with the energy-saving benefits of free-cooling. The oil-free operation of the revolutionary Turbocor compressor allows infinitely variable speed operation, giving exact capacity match and using substantially less power at part load.

### Savings in energy costs – ESEER up to 4.33

The TurboChill FreeCool achieves 1-100% free-cooling, year round. During any mechanical cooling, the excellent part load efficiencies of the TurboChill FreeCool ensure an ESEER\* of up to 4.33.

The chiller's flooded evaporator offers significant energy savings in compressor operation particularly at part load and a dual circuit configuration provides flexibility, reduced power draw and greater confidence.

EC fan technology achieves significant efficiency savings compared with an AC fan, particularly at part load. The combination of free-cooling; EC fan technology; oil-free variable speed compressor and interactive head pressure setpoint management gives the best energy balance for all operating conditions.

\* ESEER (European Seasonal Energy Efficiency Ratio)

### Key energy saving benefits

- > Oil-free Turbocor compressor technology
- > Simultaneous mechanical and free-cooling operation for maximum energy saving
- > EC fans offer superior efficiency and low noise
- > Flooded evaporator for improved full and part load efficiencies
- > Interactive head pressure setpoint management
- > Optimised coil surface area enhances free cooling capability at low ambient temperatures
- > Variable speed control provides exact capacity match
- > In-built compressor low current start (2A)
- > Advanced AireTronix controls management
- > Chiller Sequence Manager for optimisation of multiple chillers (optional)

### More technical data

- > Designed and optimised for R134a and 20% ethylene glycol water solution
- > 540kW nominal cooling capacity
- > Two sound variants: Quiet and Super Quiet
- > Friction-free compressor operation
- > Dual independent refrigeration circuits
- > Leak detection system to ensure F Gas compliance (optional)

