

QUANTUM

Turbocor Compressor

The compressor design enables a high full load and part load EER. The turbo machine operates with minimum internal losses. This results in excellent energy efficiency.

Durable, high-quality fittings and sensors

Built to last: the excellent quality of all components Guarantees a low susceptibility to errors or failures. It is also easy and efficient to replace a component.

Start-up current of compressors < 5 A

When a compressor Starts up, there are none of the dreaded current peaks. In addition, a staggered start-up is possible.

Protection class IP54

For secure refrigeration: QUANTUM machines have protection against physical contact and protection against spray water.

Multiple compressor design

Better to be safe: other compressors take over in case of failure. The redundant design also makes it possible to replace a compressor during live operation.

Oil Free Design

There is no need for oil changes. The EER is increased because the heat transfer in the refrigeration circuit is not impaired by oil. design enables a high full load and part load EER. The turbo machine operates with minimum internal losses. This results in excellent energy efficiency.

EMC class B

Complies with EMC guidelines on electromagnetic compatibility DIN EN 61000-6-2 and DIN EN 61000-6-4.

Frequency converter on every compressor

Particularly efficient during part load thanks to continuous power control. In general: the QUANTUM controller has an impressively high quality of control

Flooded tube bundle evaporator

Low temperatures difference between the chilled medium and refrigerant improve efficiency. High performance ribbed tubes for optimum heat transfer during evaporation result in low temperature differences between the refrigerant and the chilled medium.

Open-Flash-Economizer

Built-in Open-Flash-Economizers ensure high EER values. They optimize the entire refrigeration process without increasing the machine's space requirements

Large range of Electrical options

Each QUANTUM can be equipped with a variety of options to customize it: surge protection, integration of pump performance parts, a universal measuring device, a remote access, BUS connections.

Control with PLC

It all depends on the setting: PLC offers more control and regulation possibilities than standard solutions and sets a high level industry standard.

QUANTUM W



Water Cooled chillers from 250 KW to 3500 KW, IPLV > 10

Best combination of compact design and efficiency, perfect design for RETROFIT projects in existing buildings

Option for refrigerant R-134A, R-513A and R-1234ze

QUANTUM A



Air Cooled chillers from 250 KW to 1500 KW with IPLV > 5,5

Equipped with High Lift compressors to handle typical Middle East ambient temperatures

Option for Refrigerant R-134A, R-513A and R-1234ze

QUANTUM P



Water Cooled chillers from 3800 KW up to 7000 KW with IPLV > 10

The best combination of maintainability and energy efficiency, perfect application for district cooling central plants with high cooling demand variation

QUANTUM G



Water Cooled Chillers up to 3800 KW with IPLV > 10,5

Low GWP refrigerant (R-1234, < 7) for customer looking for Green Building Certification

QUANTUM DK



Water cooled chillers up to 2500 KW with double condenser for Heat Recovery and Energy Recycling applications

Perfect solution for those applications in HVAC and Industry where simultaneous cooling and heating services are necessary.