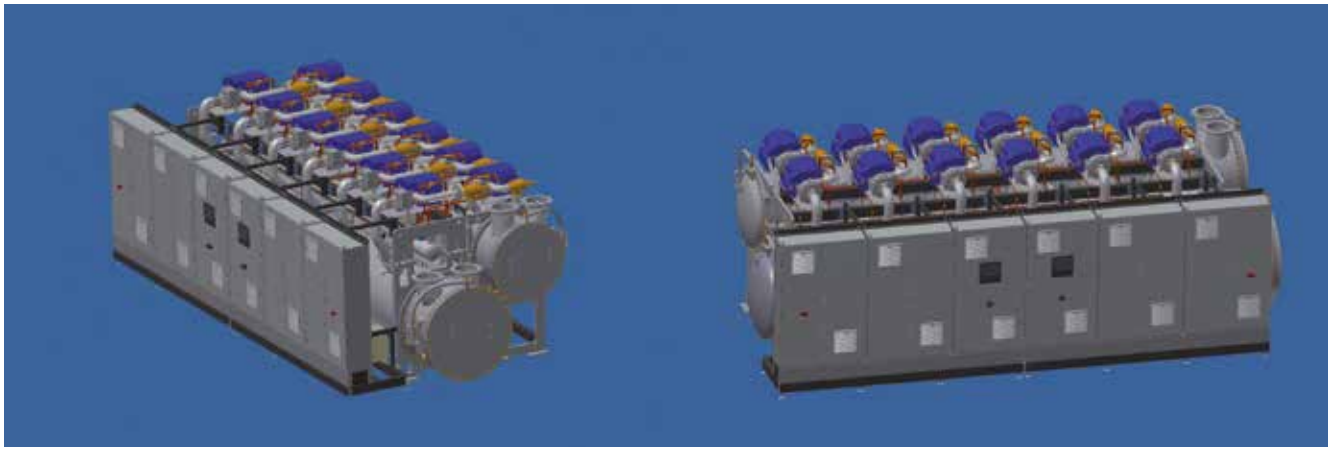
Maximum performance in a compact, modular design

The advantages of the QUANTUM P series

QUANTUM chillers are particularly efficient, low-maintenance and reliable. A QUANTUM is oil-free, which facilitates an unusually compact machine design. The QUANTUM power series includes machine configurations that can accommodate up to 16 turbo compressors, for a total output of up to around 6.5 MW. Every QUANTUM Power chiller has a compact, modular design and can thus be easily configured to nearly any customer request. QUANTUM Power chillers are available with refrigerants R-134a and R-1234ze.

QUANTUM P feature	Advantage for the customer	Reason
MODULAR DESIGN	• Effective, fast service options on the chiller • Can be flexibly adapted to a wide variety of customer requirements • Easy transport and installation	• Separable by means of flanges • Can be dismantled into five modules: 1. Switch cabinet 2. Condenser 3. Evaporator 4. ECO 5. Compressor frame • Standard suspension
COMPACT DESIGN	• Low space requirement • Clear chiller design • Easy installation	• Can be transported in a 40-foot-high cube container
UP TO 16 TURBO COMPRESSORS	Capacity range • Can be precisely adapted • Scalable as required • Low operating costs • Low noise emissions • Low vibration • High availability • Extremely low start-up currents	• Modular design • High efficiency = low energy loss = low noise emissions and vibration • Critical components are designed redundantly
CAPACITY RANGE 2,500 KW – APPROX. 6,500 KW	Applications for higher refrigeration demand: • District cooling networks • Centralised refrigeration (GTA or industry) • Efficient in district cooling networks, resulting in • considerably lower operating costs	• High energy efficiency, particularly in the megawatt range • Compressor design allows full- and partial-load EER • Turbo machine with minimal internal losses, high ESEER value • Oil-free compressor technology



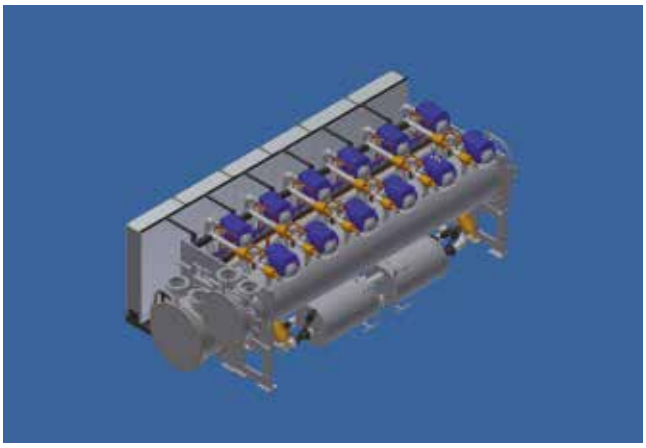
The QUANTUM P 660 – exemplary efficiency married to top performance

The QUANTUM P 660 chiller has a refrigeration capacity of up to approx. 6.5 MW at a 6–8 K temperature difference (inlet/outlet and spread) and impressive efficiency values: The EER is usually above 5.0.

The chiller is shipped in a 40-foot-high cube container, and all safety-relevant components are redundant. There are two infeeds; the line reactors are used as a service gangway. QUANTUM P 660 can be individually modified to customer requirements.

Example: QUANTUM P 660 with 12 compressors

OVERALL WIDTH	• 3,508 mm (including the switch cabinet and hinges)
TRANSPORT WIDTH	• 2,310 mm (without the switch cabinet and hinges)
OVERALL LENGTH	• 7,283 mm
TOTAL TRANSPORT WEIGHT	• 28,800 kg (without refrigerant)
TOTAL TRANSPORT WEIGHT	• 31,100 kg (with refrigerant)



ENGIE Refrigeration GmbH
Josephine-Hirner-Strasse 1&3 | D-88131 Lindau
T +49 8382 706-1 | F +49 8382 706-410

refrigeration@de.engie.com
engie-refrigeration.de