



CASE STUDY



Carrier AQUAEDGE 19XRV

CARRIER CENTRIFUGAL WATER CHILLERS IN VARSO TOWER

VARSO TOWER IN WARSAW

The Varso Tower building is the tallest building in the European Union (at 310 m with its spire) and is one of the most environmentally sound buildings in Poland. It has numerous solutions which save energy and look after the comfort and safety of future users, and these have been confirmed by BREEAM and WELL certification at the highest level.

Project description

HB REAVIS is an international company specialising in the creation of workspaces. The company's mission is to provide people who make use of these spaces with an exceptional experience. The solutions used in real estate that is designed and managed by HB Reavis have a positive impact on the efficiency and personal wellbeing of their users and communities in the vicinity.

The Varso Tower building, which is part of the VARSO PLACE suite of office buildings, has been fitted with four Carrier AQUAEDGE 19XRV water chiller units with centrifugal compressors with VFD drive with a combined power output of 8400 kW.



TECHNOLOGY

Equipment type:

Chilled water units with centrifugal compressor

Carrier Aquaedge 19XRV

Total power:

8400 kW

Challenges and solutions

Varso Tower's engine room is on the 51st floor, at a height of 214 m.

The Client's requirements primarily concerned solutions that meet the following criteria:

- economy of operation
- high level of reliability
- modularity
- exceptional energy efficiency

The company Carrier suggested the use of Carrier AQUAEDGE 19XRV centrifugal water-cooled chillers which provide exceptional efficiency and output through the use of verified technologies:

- a unique hermetic compressor concept
- use of high-output evaporator and condenser pipes
- an additional sub-cooler integrated with the condenser
- compressor control via a variable-frequency drive to maximise the machine's energy output



COMMERCIAL