

YCSE/YCRE Style C

Water-cooled screw compressor chiller

Cooling capacities from 140 kW to 249 kW

Heating capacities from 170 kW to 300 kW



YORK YCSE Style C chiller is designed for water or water-glycol cooling. It is designed for indoor installation in a plant room. The unit is completely factory assembled with all interconnecting refrigerant piping and wiring ready for field installation. **YCSE** unit is pressure tested, evacuated, and fully factory charged with refrigerant R134a and oil. After assembly, an operational test is performed with water flowing through the evaporator and condenser to ensure that each refrigerant circuit operates correctly. The units are also capable to be remodeled as a remote air-cooled screw compressor chiller condenser-less (**YCRE**).



Features

Model sizes

4 cooling only and 4 heat pumps.

Efficient screw compressors

YORK YCSE Style C offers the highest standard of reliability and economical operation utilizing twin-screw rotor technology and fully modulating compressor slide valve for increased part-load efficiency, together with low inrush current star-delta starters.

Quiet operation

The compressor has been designed so that there are minimal external gas pulsations. Thanks to the above and the adoption of integral oil separators **YCSE** units can achieve very low vibration and sound levels.

Small footprint

The compact design is ideally suited for reduced base area locations. The unit frame is manufactured from heavy-gauge galvanized steel coated with baked-on powder paint.

Extended Heating range

The operating range in heat pump mode has been extended, **YCSE Style C** units are now able to provide **heated water outlet up to 60°C**.

Modular concept

Provide flexibility

Up to 8 modules in one water system brings important benefits, such as:

- flexibility to fit in the existing space
- possible capacity increase in the future.

Achieve reliability

Full redundancy – safety first. Should a module fail, the remaining modules maintain operational continuity.

Options/Accessories

- Heat pump sensor kit, up to 60°C hot water production
- High chilled water setpoint available
- Brine down to -10°C setpoint
- Sound kit option, up to 15 dBA reduction

Nominal capacity and technical data

Model	YCSE				YCRE		
	0141	0181	0221	0241	0141	0181	0221
Cooling Capacity (kW) *	140	180	220	249	135	175	215
EER	4.85	4.81	4.71	4.73	4.22	4.19	4.10
SEER	5.27	5.46	5.51	5.52	Not Applicable		
η _{s,c}	208	215	217	218	Not Applicable		
Sound power level (dBA)	87	88	89	90	88	89	90
Length / Width / Height (mm)	Base 1378 max / 806 / 1681						
Operating weight (kg)	860	950	1040	1075	765	835	900

* YCSE: At 35°C leaving condenser liquid temperature and 7°C leaving chilled liquid temperature according to EUROVENT calculation EN14511:2011

* YCRE: At 45°C condensing temperature and 7°C leaving chilled liquid temperature

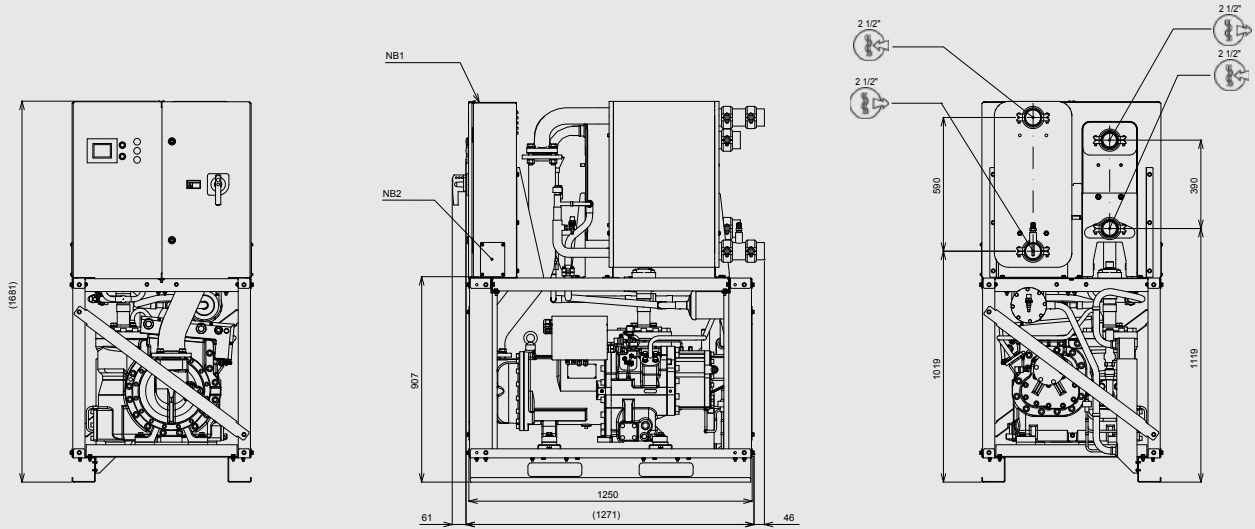
Ecodesign figures are calculated following fixed water and fixed outlet approach (FW/FO). For other Ecodesign calculations, please contact your JCI representative.

The above data is based on Johnson Controls' selection software YORKworks 21.04a. Please refer to the latest version of the software for specific projects

Dimensions and hydraulic connections

YCSE 0141 to 0241

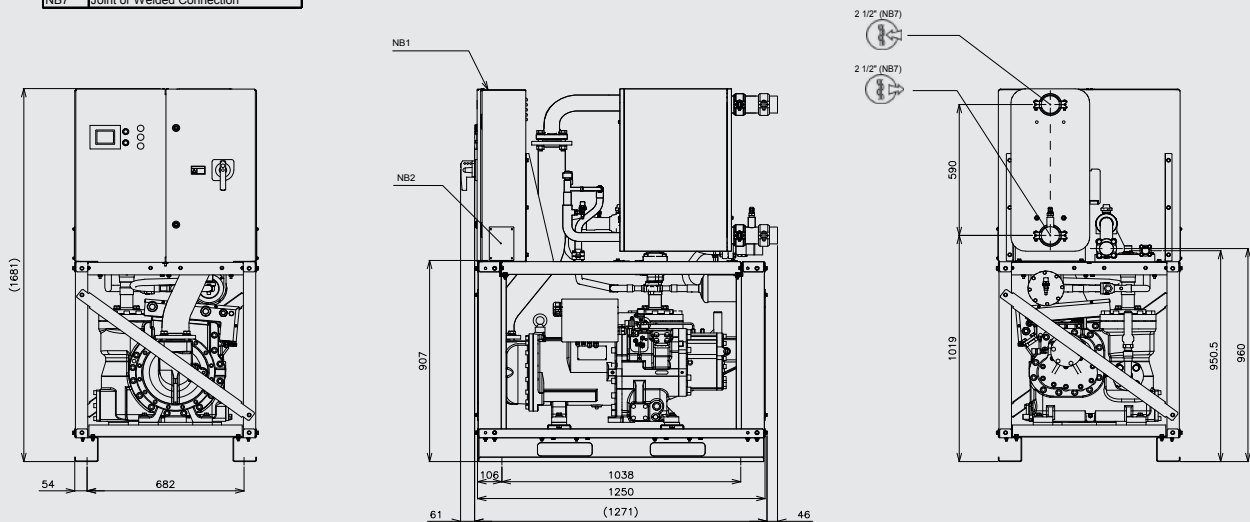
NB1	Electrical Box
NB2	Customer Wiring Entry (both sides)
NB3	2 1/2" Victaulic Connection
NB4	76.1 mm Welded Connection



All dimensions in mm. Drawings not in scale.

YCRE 0141 to 0221

NB1	Electrical Box
NB2	Customer Wiring Entry (both sides)
NB3	28.58 mm Brazing Connection
NB4	53.98 mm Brazing Connection
NB5	2 1/2" Joint Connection
NB6	76.1 mm Welded Connection
NB7	Joint or Welded Connection



All dimensions in mm. Drawings not in scale.



Manufacturer reserves the rights to change specifications without prior notice.