

Supply specification for chilled water units.



DESIGN DATA

Cooling water temperature:	36.0°C
Refrigerant:	R404A
Power frequency:	60 Hz
Power voltage:	440 Volts
Cooling capacity:	2 x 451 kW
Evaporation temp:	0.3 °C
Power consumption:	2 x 138 kW
Chilled water ΔT	+12°C / +6°C
Chilled water flow	2 x 63,2 m ³ /h
Pressure drop in chiller	2.66 mwg
Condenser water flow:	2 x 90.8 m ³ /hr
Pressure drop in condenser	5.25 mwg

Each plant consists of a pre-manufactured and pre-assembled unit for a minimum of installation work at the yard. The compressor with condenser, chiller and all accessories are mounted into the unit including internal piping and internal electrical wiring. After connection to chilled water- and cooling water lines and power supply, the unit is ready for operation.

The unit has been painted in a colour according to your specification, the colour must be informed to us on accept of the approval drawings.

The plant is cooled by freshwater of 36.0 °C

TECHNICAL DATA FOR THE COMPRESSOR

Compressor type	SMC 112S
Total no of compressors	2
Data for one compressor	
Compressor RPM	1410
Refrigerant	R404A
Evaporation temp.	0.3 °C
Cooling capacity	446 kW
Power consumption	138 kW

Compressor features:

- Open type reciprocating compressor
- Crank shaft and casing of cast iron
- Pressure lubrication with oil strainer
- Automatic capacity regulation, 33%, 50%, 67%, 100%
- Safety valve (Opening pressure of the safety valve is 24 bar)
- Control gauges for suction, discharge and oil pressure
- Oil pressure safety control
- Combined high- and low-pressure control (High: 21 bar, low: 4,2 bar)
- Electric heating element in crankcase
- V-belt drive with protection guard
- UNISAB II computer control