

AHC PUMPING UNITS

These pumping units are used for brine circulation as well as for circulating water supply in different branches of industry.

Total amount of unit variants: 21.
 Brine head: from 153 to 393 kPa.
 Brine flow: from 0,8 to 440 m³/h.



Unit description

These units are completely manufactured at the factory and mounted on a single frame. The hydraulic elements of the unit are connected with piping; the electrical components are wired to the control cabinet.

In order to apply the pumping unit as a part of a refrigeration system, connect the brine piping to the unit and wire electrical cables to the control cabinet from an electrical board.

Basic components

The unit has from one to three **Grundfos centrifugal circulation pumps** with special shaft sealing compatible with water, glycol and glycerin solutions. The pumps starting from the AHC-30/1/1 model are equipped with a built-in thermal protection relay for the motor. The pumps in units can be used in following combinations: without backup pumps (one or two duty pumps) or with a backup pump that is turned on automatically in case of a duty pump failure (one duty pump and one backup pump or two duty pumps and one backup pump).

Suction line: shut-off valve or damper, strainer, pressure gauge with a three-way stop valve, thermal insulation.

Discharge line: pressure gauge with a three-way stop valve, check valve, shut-off valve or damper, thermal insulation.

Service valves for water drain and air removal.

Frame: The frame is the supporting structure of the unit. It is made of steel and has sufficient rigidity. The frame is painted with a high quality anti-corrosion composition, resisting environmental climatic factors. It provides a possibility of mounting the unit on its base and an easy access to its maintenance.

Options

Unit control

Option **C1:** control cabinet combined with unit;

Option **C2:** control cabinet with TROVIS 6493 controller, combined with unit.

Expansion compensation

Option **S1:** Safety valve, pressure gauge with three-way stop valve, pressure sensor.

Flow regulation

Option **P1:** thermal insulation, flow regulator, return pipeline, service valve, stop valves, pressure gauge with three-way stop valve, and pressure sensor.

Temperature maintenance of chilled liquid

Option **T1:** oil regulating valve, temperature sensor, thermal insulation, return pipeline, pressure gauge with three-way stop valve, and pressure sensor.

Technical documentation

Operating manual, product passport.

Label structure

AHC - 55 / 1 / 1 - H - XX...X
 1 2 3 4 5 6

1 – Product type

AHC – pumping unit for closed hydraulic system;

2 – Nominal capacity of duty pumps (m³/h);

3 – Number of duty pumps;

4 – Total amount of pumps;

5 – Unit version;

6 – Additional options.