CHA/H/A 1402 SPU EC

Aircooled liquid chiller with axial fans

General description

Aircooled liquid Chillers with axial fans for outdoor installation.

Frame

Self-supporting galvanized steel frame further protected with polyester powder painting. Easy to remove panels allow access to the inside of the unit for maintenance and other necessary operations.

Compressors

Screw semihermetic with built-in oil separator, suction filter, crankcase heater, oil sight glass, thermal protection and stepless capacity steps.

Fans

Axial fans directly coupled to a three-phase electric motor with external rotor. A safety fan guard is fitted on the air flow discharge. On the super silenced units there are fans with a low rpm, therefore some models have more fans.

Condenser

Made up of two finned coils with copper pipes and aluminium fins. Circuits are made to create two independent circuits.

Evaporator

Shell and tube type, with two independent refrigerants circuits and one water circuit.

Electrical panel

It includes: main switch with door safety interlock; fuses; thermal protection relays for compressors; thermocontacts for fans; interface relays; electrical terminals for external connections.

Microprocessor

For automatic control of the unit allowing continuous display of the operational status of the unit, control set and real water temperature and, in case of partial or total block of the unit, indication of security device that intervened.

Electronic proportional device

It attenuates the sound level of the unit using a continuous regulation of fan rotation speed. This device also allows the cooling operation of the unit up to outside air temperatures of 0 °C.

Refrigerant circuit

Each unit includes two independent refrigerant circuits. Made of copper pipe, it includes the following components on all models: electronic expansion valve; shut-off valves on discharge and liquid line; filter drier; liquid and humidity indicator; pressure transducer; high and low pressure switches (with fixed setting); safety valve; digital high and low pressure gauges.

Water circuit

It includes: evaporator into insulated inertial tank; temperature sensor; antifreeze sensor; water differential pressure switch; circulating pump; flow switch; water manometers in suction and discharge lines; expansion vessel; manual air vent; water drain; safety valve and thermal relay.