



Micro-Connect mainboard and display terminal



Display of information on *back-lit LCD screen*

Remote control terminal

Operating mode selection dial

Connects using two non-polarised wires

The **MICRO-CONNECT** automatic control systems is fitted as standard equipment on low-power reversible and non-reversible chilled water production units with air or water condensation.

COMPOSITION

- main board for machines with one refrigerant circuit and one compressor,
- power board, compressor contactor,
- daughter board for swimming pool option and air humidity sensor, domestic hot water and multi-zones (PCR),
- remote control and display terminal, liaison via 2 non-polarised wires.

GENERAL FUNCTIONS

- 4 types of configurable installations,
- control of chilled or hot water temperatures,
- 2 set points possible for heating and cooling, for water and air (PCR), or in economy mode,
- heating and cooling drift depending on the outside temperature set point,
- defrosting for reversible models,
- actions on the electric auxiliary heating system stages,
- protection of the plate type heat exchanger,
- control of the trace heating element and pipework tracer,
- control of the circulation pump,
- frost protection for the building,
- swimming pool heating and domestic hot water option,
- data saving for a two-hour period.

DETAILED FUNCTIONS

- Compressor :
 - anti-short-cycle optimised thanks to the self-adapting function,
 - automatic restart following power failures.
- Fan :
 - variation of the fan speed depending on the outside temperature in heating and cooling modes,
 - "Low Noise" function.
- Accelerator Pump :
 - running adapted to suit the operating mode and conditions,

- weekly anti-jamming process;

■ Heat Exchanger :

- increased frost protection thanks to observation of water and refrigerant temperatures drifts.

■ Faults:

- individual diagnosis of each fault (codes),
- control of temperature sensors and terminal,
- control of high- and low-pressure refrigeration circuit,
- control of the connection with the terminal,
- control of air humidity sensor (option) for PCR application,
- control of water flow (differential pressure switch),
- control of operating limits,
- anti-flicker on the electric auxiliary heating systems,
- fault reset counter.

SERVO SYSTEMS AND EXTERIOR CONTROLS

- 2 on/off inputs (dry contacts) :
 - automatic operation/load shedding control for the electric auxiliary heaters,
 - customer inputs for heating/forced cooling/ management of absence.
- Heating/cooling output :
 - alarm relay (dry contact).

CONTROL TERMINAL

- The control terminal can be used to :
 - configure the unit and the installation,
 - select the operating mode: heating/cooling/frost protection/off/swimming pool heating,
 - configure and adjust the set points (comfort/economy),
 - reset faults,
 - programme the weekly operating schedule.
- The control terminal can be used to display the following :
 - compressor operation,
 - operating mode, comfort/economy,
 - operating values,
 - electric auxiliary heaters stages (heater option),
 - starting procedure for auxiliary heating system, and boiler type,
 - production of hot water for swimming pools.