



SPECIFICATION 1004

CREC Control Panel

The CREC control panel is designed to control up to three EcoCoolers in an IT cooling environment.



The control of a server room or data centre is a complex operation. The EcoCooling CREC control panel has been designed to provide a high level of security in this process.

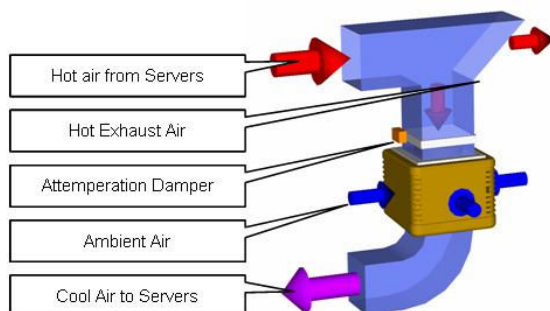
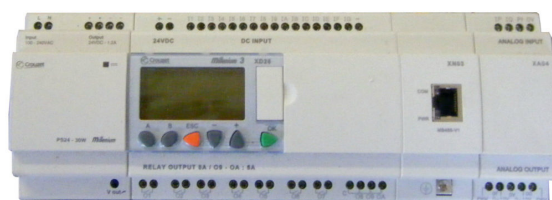
Based on the Crouzet Millenium 3 PLC the CREC control panel uses analogue temperature and pressure sensors. An back lit LCD screen shows the mode, set points and measured values, fault conditions and menus.

Larger numbers of coolers can be controlled using linked systems in a master/slave configuration.

A menu system accessed using the front panel keys is used to set the operating mode.

- Off
- Automatic
- Manual operation

The set points of temperature and pressure are adjusted using sub-menus.



An EcoCooling CREC (Computer Room Evaporative Cooler) uses a patented system of attemperation incorporating a recirculation damper. The CREC controller maintains a constant temperature of supply air using up to three analogue temperature sensors in the server room or data centre. A pressure sensor is used as part of the control system to set both supply fan and, where used, extraction fan speeds.

Control functions

- Temperature control of supply air
- Pressure control of building
- Extraction fan control (where fitted)
- Automatic drainage of water supply
- Enabling and disabling of CRAC's if present
- Link to fire alarm systems

The optional communications module can provide Modbus or Ethernet connectivity. This provides the following information:

- Operating Mode
- EcoCoolers fault status
- Temperature and pressure values
- Crouzet PLC diagnostics

The output takes the form of four 16 bit words

The control of the cooling of IT facilities is complex. It is recommended that an EcoCooling technician commissions the system.