ENERCON S.R.L.

Via Fornasina 60

25080 Muscoline

Tel: +39 0365373193 Fax: +390365373186

Email: info@enercon.it Web: www.enercon.it

CORE COOLING: THE FINAL SOLUTION TO YOUR GLUED MOULD AND WORKPIECE MICRO-POROSITY PROBLEMS.

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CORE COOLING DESCRIPTION

CORE COOLING has been designed to cool hot points, cores, and inserts in all die casting moulds. This equipment is used to remove glued parts, during extraction, as well as pores and micro-pores resulting from the high temperature reached by some mould parts during the injection process.

This is why CORE COOLING makes a certain amount (determined during a specific time interval) of water and air flow, at a pressure ranging between 0 and 20 bar, through one or more circuits connected to one or more hot points of the mould.

The whole cycle consists of three phases:

PHASE 1: the equipment injects pressurised water into the cooling circuit of the hot points, during a programmed time, checking the flow, according to the maximum/minimum tolerance percentage, and any possible obstruction in the cooling circuits.

PHASE 2: once the cooling time has elapsed, the circuits are dried with pressurised air injected for a programmed amount of time.
This way, the next metal injection cycle can be performed under the utmost safety conditions.

PHASE 3: this last phase checks the tightness in order to re-inject the air into the circuits, this time with the outlet closed, to detect any loss of pressure.

A metre allows you to store and display the flow log, consisting of the last 100 cycles, as well as the total amount of water consumed. This way, you can check the resins in the water inlet filter and prevent the circuit from calcifying.

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CORE COOLING consists of:

- programmable controller.
- touchscreen control panel
- inverter
- high pressure water pump
- high precision flow meter.
- water meter.
-50-litre water tank
- integrated leakage control
- manifold block with 10 inlets and 10 outlets for each circuit.

Moreover, CORE COOLING is equipped with resins to soften water and prevent possible impurities from accessing the circuit and obstructing the cooling circuit.

The equipment can be provided with a dosage of circulating water anti-corrosion treatment (optional).

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