

DIE TEMPERATURE CONTROLLERS
SERIES DIATHERMIC OIL

CLIMAT PF - N





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Diathermic Oil Up to 350 °C

The advantages of the use of diathermic oil are connected to the possibility of reaching high temperatures safely. The IECI temperature controllers are structured to support such operation continuously. The technical features include magnetic drive pumps without the possibility of leakages of the fluid, and the heating elements are controlled by a PID system. Cooling systems can be managed with a proportional valve.

The combination of these features ensures compliance with chemical-physical characteristics of the oil, allowing a long life and an effective performance over time.

Machine Code	CCPD019 / CCPD014 / CCPD021 / PFO330 / CCPD025
Maximum temperature	200° - 250° - 300° - 330° - 350°C
Electronic controller device	PLC TD700, Win CE, display 7" touch screen, 65.000 colours, Movicon / TD240 3,5"
Fluid type of heat transfer loop	Diathermic Oil
Thermoregulating zones	1-2, completely independent
Operating system	pressure / vacuum
Heating type	Electrical resistors, immersed and sealed
Heating power kW	From 12 to 72
Cooling type	Indirect exchange
Heat exchanger	Copper serpentine, model FCX3016;
Cooling power kW	From 72 to 320 kW
Circulation pump	Electropump, magnetic drive
Characteristics of the pump	From 60 to 200 l/min - from 6 to 9 bar
Load of fluid inside the loop	Manual
Power supply	400 V+PE, auxiliary 24 VAC
Hydraulic supply	Fittings ½"
Die connection	Fittings 1"
Tank	Glazed steel, capacity 60 l
Electronic instrumentation	Digital controller of temperature or PLC systems
Frame	T3 - T1 - T60, with swivel wheels
Frame and dimensions (L x W x H) mm	500x1000x1000h - 500x1250x1230h 600x1250x1390h
Weight (kg)	from 190 to 450

OPTIONS AVAILABLES
Heating power increased up to 72 kW
Cooling power increased up to 320 kW with braze-welded exchanger
Different pump size up to 200 l/min, 9 bar
Cooling system with 3-way anti-scale system
Multichannel manifold for external distribution, stainless steel
Warning light and alarm of temperature set-point range
Warning light and alarm of temperature delivery/return range
Water inlet motorized valve
Interface of the press with various protocols, Profibus, Ethernet, Profinet, etc ...
Cabling system with PLC SIEMENS S7 1200
Hoses or fixed plants for the connection to the mould, tailored

Other optional features are available.