

*DIE TEMPERATURE CONTROLLERS  
SERIES PRESSURIZED WATER*

# CLIMAT PF - ZH





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**Pressurized water 160 - 180 - 200 °C**

Pressurized water is the best fluid for heating transfer due to its characteristics of speed in thermal exchange and economic affordability. The limit of usage in the fluid state is raised up to 200 °C, thanks to heating systems with external electrical resistors not in contact with water. The management of the hydraulic circuit is assigned to a pneumatic valve system which grants maximum safety and reliability.

The software of management scans and processes all the values and the changes related to pressure, flow and temperature, automatically combining them into the best possible performance.

|                                            |                                                                                                                                       |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Machine Code</b>                        | CCPZ009                                                                                                                               |
| <b>Max temperature °C</b>                  | 160 - 180 - 200                                                                                                                       |
| <b>Electronic controller device</b>        | Single zone: PLC TD240, display 3.5" touch screen;<br>Double zone: PLC TD700, Win CE, display 7" touch screen, 65.000 colors, Movicon |
| <b>Fluid thermal vector circuit type</b>   | Pressurized water, hardness < 10°F                                                                                                    |
| <b>Thermal regulation zone</b>             | 1 - 2, completely independent                                                                                                         |
| <b>System Operation</b>                    | Independent pressurization, forced and controlled by pneumatic purge                                                                  |
| <b>Expansion vase</b>                      | With compressed air cushion without membrane                                                                                          |
| <b>Heating type</b>                        | External resistors in insulated chamber (IHCS)                                                                                        |
| <b>Heating power kW</b>                    | 15 - 24, per zone                                                                                                                     |
| <b>Cooling type</b>                        | Indirect, with direct function exchangeable                                                                                           |
| <b>Heat exchanger</b>                      | Stainless steel, IHCS (IECI Patented);<br>Braze-welded plates on 3-way valve system                                                   |
| <b>Cooling power kW</b>                    | 50 - 80 - 160 per single zone                                                                                                         |
| <b>Circulation pump</b>                    | SPI-A , magnetic drive                                                                                                                |
| <b>Characteristics of the pump</b>         | 60 l/min 6 bar 1,1 kW                                                                                                                 |
| <b>Pressurization pump</b>                 | Loading pump separated TP100<br>40 l/min 17 bar                                                                                       |
| <b>Pressure control system</b>             | Digital, 0,1 bar accuracy                                                                                                             |
| <b>Frame</b>                               | T4 - T1 - T60, with swiveling wheels                                                                                                  |
| <b>Frame and dimensions (w x d x h) mm</b> | 440x850x800 - 500x1250x1230<br>600x1250x1390                                                                                          |
| <b>Weight (Kg)</b>                         | 210 - 290 - 350                                                                                                                       |

## OPTIONS AVAILABLE

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| Heating power increased up to 48 kW                                                              |
| Cooling power increased up to 320 kW                                                             |
| Different size pump up to 200 l/min, 9 bar                                                       |
| Cooling system with 3-way anti-calc device                                                       |
| External distributor with stainless steel multi-channel taps                                     |
| Checking system of the set temp between the values of the range, with acoustic and visual alarm. |
| Control system of the delta temperature of delivery and return                                   |
| Motorized water inlet valve                                                                      |
| Die interface, various protocol, profibus, ethernet, profinet, datanet, device-net, etc.         |
| Flexible hoses or fixed plants for connection to the die, tailored                               |

*Other optional features are available.*