





PRESSURISED MOULD TEMPERATURE CONTROLLERS TB-P SERIES

- Working temperature up to 140℃
- Temperature accuracy of ± 0.5℃, thanks to PID algorithms on the heating and cooling phase
- Automatic self-tuning of the PID parameters at every mould change
- High pressure, high flow centrifugal pump.
 The pump has back to back impellers with axial thrust balancing
- 80 kW cooling capacity for process water at 130℃ and cooling water at 10℃
- Noise level lower than 70 dB(A)
- Safety thermostat

- Thermal insulation on heating and cooling chambers
- Automatic operation at reduced heating power near the set point (TB/2-P Models)
- Automatic water filling
- Three phase heaters
- Connection for controlling the temperature directly at the mould
- · Central acoustic alarm
- Quick cooling Key
- Mechanical filters in the process and cooling circuits
- 24 V auxiliary circuit

ON REQUEST:

- · High flow and high pressure pump
- Version with reversible pump (when running in reverse, the maximum working temperature is 80℃)
- Larger cooling capacity (TB-P single heater only)
- Daily/weekly timer
- · Two, three or four-way manifolds
- Serial outlet
- Bigger power models
- Working temperature up to 150℃











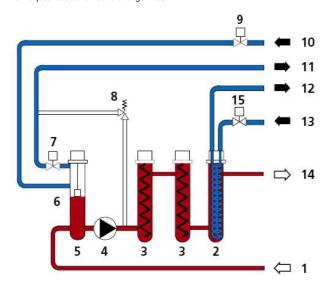
TECHNICAL DATA

MODELS	TB 3-P	TB 4,5-P	TB 6-P	TB 9-P	TB 12-P
Maximum working temperature (℃)	140	140	140	140	140
Heating capacity (kW)	3	4,5	6	9	12
Pump motor (kW)	0,75 *	0,75 *	0,75 *	0,75 *	0,75 *
Water flow (litres/minute)	16/70*	16 / 70 *	16 / 70 *	16 / 70 *	16 / 70 *
Pressure (bar)	4,3 / 2,5 *	4,3 / 2,5 *	4,3 / 2,5 *	4,3 / 2,5 *	4,3 / 2,5 *
Maximum cooling capacity (kW)	80 **	80 **	80 **	80 **	80 **
Dimensions (mm)	700x300x650	700x300x650	700x300x650	700x300x650	700x300x650
Weight (kg)	66	66	66	66	66

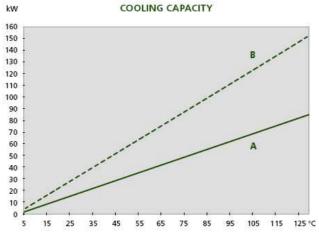
MODELS	TB 6/2-P	TB 9/2-P	TB 12/2-P	TB 15/2-P	TB 18/2-P	TBH 24/2-P
Maximum working temperature (℃)	140	140	140	140	140	140
Heating capacity (kW)	6 (3+3)	9 (4,5+4,5)	12 (6+6)	15 (9+6)	18 (9+9)	24 (12+12)
Pump motor (kW)	0,75 *	0,75 *	0,75 *	0,75 *	0,75 *	1,5
Water flow (litres/minute)	16/70*	16 / 70 *	16 / 70 *	16 / 70 *	16 / 70 *	50 / 200
Pressure (bar)	4,3 / 2,5 *	4,3 / 2,5 *	4,3 / 2,5 *	4,3 / 2,5 *	4,3 / 2,5 *	3,6 / 2,6
Maximum cooling capacity (kW)	80	80	80	80	80	80
Dimensions (mm)	700x300x650	700x300x650	700x300x650	700x300x650	700x300x650	920x400x890
Weight (kg)	74	74	74	74	74	95

^{*} on request bigger pump: pump motor kW 1,1; water flow (l/min) 16/80; pressure (bar) 5,3/4,0

^{**} on request additional heat exchanger. 150 kW



- 1. From process
- 2. Finned heat exchanger
- 3. Heater
- l. Pump
- 5. Tank
- 6. Magnetic float
- 7. Solenoid valve
- 8. Safety valve
- 9. Automatic filling valve
- 10. Automatic filling
- 11. Drain
- 12. Cooling water outlet
- 13. Cooling water inlet
- 14. To process
- 15. Cooling inlet solenoid valve

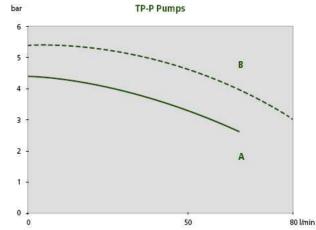


Temperature difference between process and cooling water **A:** diagram with one only heat exchanger **B:** diagram with additional heat exchanger

Process

P

Colling water pressure: 2 bar Process water flow: 35 l/min



Pump A: standard version Pump B: on request

