

## OIL TEMPERATURE CONTROLLERS

### TBH-OH / TBH-OHT

The new Green Box range of temperature controllers has been designed to meet temperature requirements up to 190 °C with TBH-OH and 250 °C with TBH- OHT.

Polymers such as PTFE, PEEK, PSU, PPS, PES, LCP, PEI require much higher mould temperatures than 50 to 140 °C, typical of classical plastic materials.

Other industrial processes such as die casting require temperature control at temperatures higher than 200 °C.

These units, available in a wide range of models, are the ultimate answer to our customer needs.

#### MAIN FEATURES

- Armoured 3-phase stainless steel electrical heater/s with low specific heating capacity (W/cm )
- Microprocessor accurate temperature control (accuracy  $\pm 0.5^{\circ}\text{C}$ ), with PID algorithm both in heating and cooling mode and automatic heating unloading in double-triple heater models
- User friendly interface and no need of complicated settings due to the self tuning software standard provided
- Manual oil filling
- 6 litres expansion tank with magnetic level switch
- High efficiency heat exchangers specifically developed for high temperature applications
- Forced cooling function to make mould change easier
- Optional remote temperature sensor (directly in the mould)
- Safety thermostat
- Efficient thermal insulation of all the heaters and exchanger shells
- Acoustic alarm
- Oil leak alarm
- Swivelling wheels with brake standard provided
- Low noise level - below 70 dB (A)
- 400 V - 3 - 50 Hz standard power supply
- 24 V auxiliary circuit
- CE conform standard components and assembly
- Double impeller centrifugal pumps (TBH-OH) with high temperature mechanical sealings
- Magnetic driven pump for TB-OHT

#### TBH - OH



#### OPTIONS

- Pumps with higher performance
- Reversible pump (only for TBH-OH)
- Double heat exchanger (only with one or two heaters)
- Daily-weekly timer
- Power supply different from standard
- Custom units with higher global performances



## TECHNICAL DATA

MODEL	TBH 3-OH	TBH 4,5-OH	TBH 6/2-OH	TBH 9/2-OH	TBH 12/3-OH	TBH 13,5/3-OH
Max. Temperature (°C)	190	190	190	190	190	190
Heating power (kW)	3	4,5	6	9	12	13,5
Number of heaters	1	1	2	2	3	3
Cooling capacity* (kW)	51	51	51	51	51	51
Pump power (kW)	0,75	0,75	0,75	0,75	1,1	1,1
Pump flow rate (l/min)	16 / 70	16 / 70	16 / 70	16 / 70	16 / 80	16 / 80
Pump pressure (w.p.g.)	42 / 24	42 / 24	42 / 24	42 / 24	52 / 40	52 / 40
Total nominal power (kW)	3,7	5,2	6,7	9,7	13,1	14,6
Expansion/filling tank (litres)	10	10	10	10	10	10
Pipe connections (BSP)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Dimensions (mm)	920x400x890	920x400x890	920x400x890	920x400x890	920x400x890	920x400x890
Net weight (Kg)	85	85	90	90	95	95

  

MODEL	TBH 3-OHT	TBH 4,5-OHT	TBH 6/2-OHT	TBH 9/2-OHT	TBH 12/3-OHT	TBH 13,5/3-OHT
Max. Temperature (°C)	220	250	250	250	250	250
Heating power (kW)	3	4,5	6	9	12	13,5
Number of heaters	1	1	2	2	3	3
Cooling capacity** (kW)	70	70	70	70	70	70
Pump power (kW)	1,0	1,0	1,0	1,0	1,0	1,0
Pump flow rate (l/min)	5 / 55	5 / 55	5 / 55	5 / 55	5 / 55	5 / 55
Pump pressure (w.p.g.)	55 / 5	55 / 5	55 / 5	55 / 5	55 / 5	55 / 5
Total nominal power (kW)	4	5,5	7	10	13	14,5
Expansion/filling tank (litres)	10	10	10	10	10	10
Pipe connections (BSP)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Dimensions (mm)	920x400x890	920x400x890	920x400x890	920x400x890	920x400x890	920x400x890
Net weight (Kg)	85	85	90	90	95	95

\* with oil at 160°C, water at 10°C

\*\* with oil at 210°C, water at 10°C

