

The new Green Box range of temperature controllers has been designed to meet temperature requirements up to 200 °C with TB-OH and 250 °C with TB-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<sup>2</sup>)
- 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 complicate settings due to the self tuning software standard provided
- Manual oil filling
- 6 litre 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 (TB-OH) with high temperature mechanical sealings
- Magnetic driven pump for TB-OHT

## OPTIONS

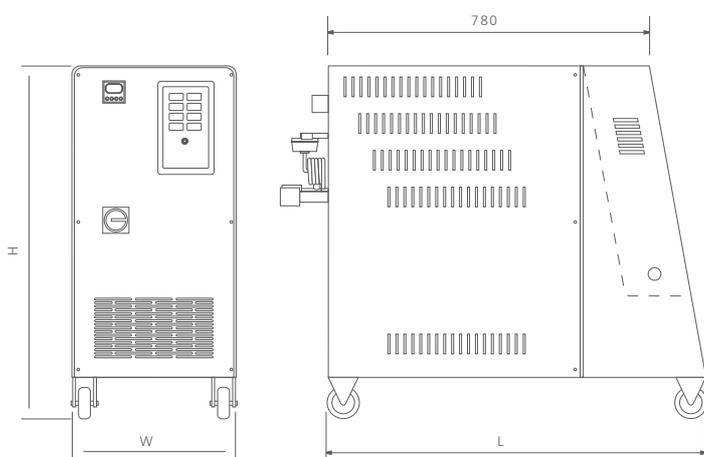
- Pumps with higher performance
- Reversible pump (only for TB-OH)
- Double heat exchanger (only with one or two heaters)
- Daily-weekly timer
- Power supply different from standard
- Custom units with higher global performances

## 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 <i>no. of heaters</i>		kW	3 1	4.5 1	6 2	9 2	12 3	13.5 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
	flow rate	l/min	16/70	16/70	16/70	16/70	16/80	16/80
	pressure	w.p.g.	42/24	42/24	42/24	42/24	52/40	52/40
TOT. 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	¾"	¾"	¾"	¾"	¾"	¾"
DIMENSIONS	length	(L) mm	920	920	920	920	920	920
	width	(W) mm	400	400	400	400	400	400
	height	(H) mm	890	890	890	890	890	890
NET WEIGHT		kg	85	85	90	90	95	95

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	230	250	250	250	250	250
HEATING POWER <i>no. of heaters</i>		kW	3 1	4.5 1	6 2	9 2	12 3	13.5 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
	flow rate	l/min	5/55	5/55	5/55	5/55	5/55	5/55
	pressure	w.p.g.	55/5	55/5	55/5	55/5	55/5	55/5
TOT. NOMINAL POWER		kW	4	5.5	7	10	13	14.5
EXPANSION/FILLING TANK		litres	10	10	10	10	10	10
PIPE CONNECTIONS		BSP	¾"	¾"	¾"	¾"	¾"	¾"
DIMENSIONS	length	(L) mm	920	920	920	920	920	920
	width	(W) mm	400	400	400	400	400	400
	height	(H) mm	890	890	890	890	890	890
NET WEIGHT		kg	85	85	90	90	95	95

\* with oil at 160°C, water at 10°C - \*\* with oil at 210°, water at 10°C  
Green Box L.t.d. reserves the right to change the specification of these machines without previous notice.



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