

## TEMPERATURE CONTROLLERS SERIES TB-S, TB-M, TB-D



**GREEN BOX** is proud to present the completely re-styled TB-S, TB-M and TB-D series of mould temperature controllers. These units are available in water, oil and water/oil versions, all with open tank, reversible pump and with working temperatures up to 90°C (water) or 150°C (oil).

### HIGH ACCESSIBILITY AND EASY OF MAINTENANCE

The new frame enables access to be gained to the internal components by removing only one screw. This makes it easier and quicker to carry out maintenance.

### REVERSIBLE PUMP

The pump is reversible, self priming and high performance. The vacuum capability enables safe operation on the event of a leak in the circuit. Moreover, this feature helps the draining of the fluid during the mould changing, thus reducing any liquid loss and avoiding rust and corrosion due to water stagnation.

### HIGH CORROSION RESISTANCE

Green Box temperature controllers have stainless steel tanks and heating elements. This guarantees their protection against rust and corrosion.

### WATER AND OIL VERSION

GREEN BOX temperature controllers can be ordered in water version (-W for temperatures up to 90°C), in diathermic oil version (-O up to 150°C) and in water/oil version (-WO) able to work with both the fluids, with higher flexibility.

### TEMPERATURE REGULATION OF TWO SEPARATE ZONES

A TB-D version of the GREEN BOX range of temperature controllers is also available, for the temperature regulation of two independent zones. This kind of machine allows different temperatures in each half of the mould; enabling higher quality product.

### QUICK MOULD CHANGING

Green Box temperature controllers are fitted with a quick mould cooling function, that allows the mould to cool to temperatures close to the ambient in a very short time. In the meantime the machine automatically activates the mould emptying function. This feature reduces the mould change time..

### OTHER FEATURES

GREEN BOX temperature controllers are fitted with :

- Level control in the water tank in two points, with automatic filling system for the water versions
- Low power density heating elements for the oil versions, to avoid oil cracking
- Heating elements managed by contactors
- Over temperature safety thermostat

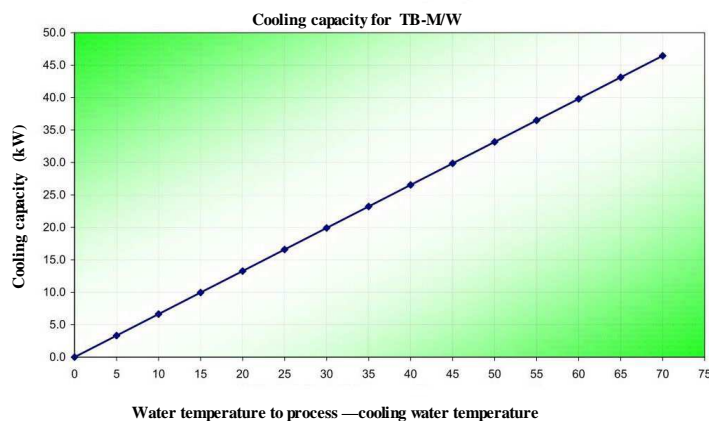
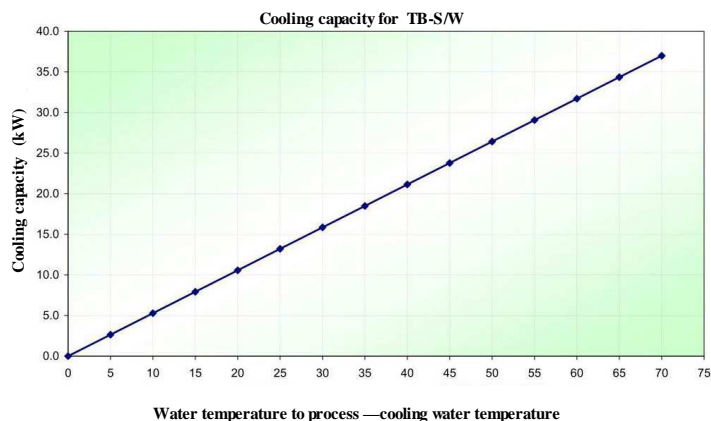
### OPTIONS

- Daily/week programming
- Different voltages from 400V/3 ph./50 Hz
- High performances (flow and/or pressure) pumps
- 2 or more way manifolds
- Semi-automatic mould emptying kit



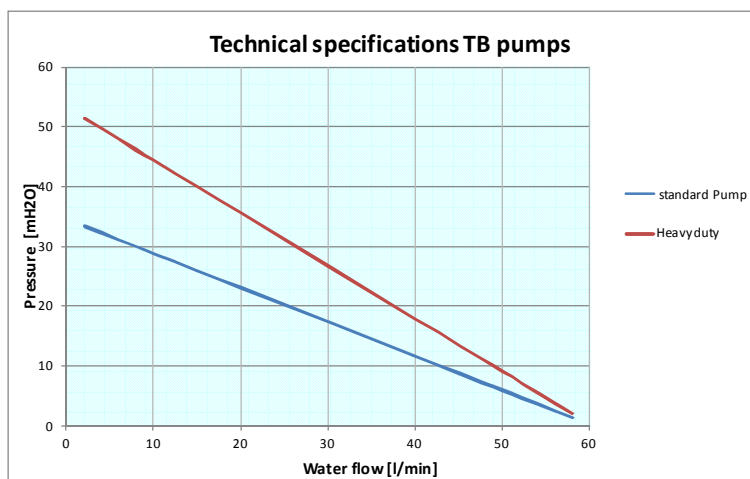
## TECHNICAL DATA

MODEL	TB S/W	TB S/O	TB M/W	TB M/O	TB D/W	TB D/O
Fluid	Water	Oil	Water	Oil	Water	Oil
Max. Temperature	90 °C	150 °C	90 °C	150 °C	90 °C	150 °C
Heating capacity kW	3-4,5-6-9	3-4,5	6-9-12-15-18	6-9	2 x (3-4,5-6-9)	2 x (3-4,5)
Automatic unloading	-	-	x	x	-	-
Cooling capacity kW	37	28	48	37	2x 37	2x28
Motor power kW	0,5	0,5	0,5	0,5	2x0,5	2x0,5
Water flow L/Min	0 – 60	0 – 60	0 – 60	0 – 60	0 – 60	0 – 60
Pressure bar	3,5-0	3,5-0	3,5-0	3,5-0	3,5-0	3,5-0
Connections BSP	½ “	½ “	½ “	½ “	½ “	½ “
Dimensions mm	700x240x650	700x240x650	700x300x650	700x300x650	700x460x650	700x460x650
Weight	55 Kg	55 Kg	60 Kg	60 Kg	90 Kg	90 Kg



### HIGH COOLING POWER

All the temperature controllers are fitted with finned coil heat exchangers, with high exchanging surface and high cooling capacity. These exchangers permit an excellent cooling capacity and temperature control with very low working temperatures,



Green Box Srl reserves the right to change the specification of these machines without previous notice Rel 01 07/2012

