

## IBL-7C

**Industrial Dry Block**  
 $T_{amb.} + 15^{\circ}\text{C} \dots 650^{\circ}\text{C}$

The IBL-7C temperature calibrator has been designed for on-site applications and for the severe conditions of the naval and marine sectors. The high heating/cooling rates allow considerable savings in terms of time during calibration that requires more than one verification point.

The Dry-Block has one hole with a diameter of 26x150 mm in which the reductions are inserted to adapt the diameter of the probes under calibration.



### General

The thermal part of these calibrators consists of a heated metal block with resistors or a Peltier cell, inside the metal block are formed one or more holes in which can be housed interchangeable inserts. The available inserts make versatile the calibration of temperature sensors with the most common diameters in use; it is also available special diameters on request.

An innovative ventilation system keeps the temperature above the calibrator lower than other brands.

The flow of air in the upper part of the oven is deflected toward the rear by a tangential flow that touches the calibration block; therefore, the thermocouples compensation cables

temperature remain significantly lower, greatly reducing possible compensation errors from the heated head

### Technical Data

**Range:**  $T_{amb} + 15^{\circ}\text{C} \dots 600^{\circ}\text{C}$

**Stability:**  $\pm 0,15^{\circ}\text{C}$  (all range)

**Standard insert:**  $\varnothing 3,2 - 4,8 - 6,4 - 11,1$  mm (one insert)

**Hole depth:** 150 mm

**Hole diameter:** 26 mm

**Axial uniformity:**  $\pm 0,13^{\circ}\text{C}$  @  $250^{\circ}\text{C}$  /  $\pm 0,15^{\circ}\text{C}$  @  $450^{\circ}\text{C}$  /  $\pm 0,35^{\circ}\text{C}$  @  $650^{\circ}\text{C}$

**Radial uniformity @ 40 mm:**  $\pm 0,22^{\circ}\text{C}$

Mean heating time (including stabilization time): from  $50^{\circ}\text{C}$  to  $650^{\circ}\text{C}$  in 35 min

**Mean cooling time (including stabilization time):** from  $650^{\circ}\text{C}$  to  $100^{\circ}\text{C}$  in 60 min

**Display resolution:** 0,1 °C  
**Engineering Units:** °C - °F  
**Switch test:** 5 V dc  
**Power supply:** 100/230 V ± 10% - 50/60 Hz  
– 600 W

#### Scope of Delivery

- IBL-7C calibrator.
- Power supply cable.
- Fuses kit.
- Thermostat connection cables.
- Instructions manual.
- Test report.
- Tweezers for inserts removing.
- Insert with 3 holes: (Ø 4,5 – 6,5 – 10,5 x 185 mm).

#### Dimensions

130 x 260 x 280 mm

#### Weight

6 kg

#### Accessories / Options

- Carrying case