

# RTC-157 A/B/C

## Dry block calibrator



- **Temperature range: -45 °C to 155 °C**
- **Optimized temperature homogeneity: 0,01 °C**
- **Dual zone heating block**
- **Automatic control over the PC (USB)**
- **Easy handling**



## Specifications

The models A, B and C are equipped with an internal sensor, the models B and C are equipped with an additional external sensor and model C also has an additional connection for a device-under-test.

### Temperature range:

|                                   |        |
|-----------------------------------|--------|
| Maximum:                          | 155 °C |
| Min. @ ambient temperature 0 °C:  | -57 °C |
| Min. @ ambient temperature 23 °C: | -45 °C |
| Min. @ ambient temperature 40 °C: | -31 °C |

**Stability:** ±0.005 °C

**Time to stabilization (approx.):** 10 minutes

**Radial homogeneity (Distance between drill holes):** 0.01 °C

### Accuracy

|                                   |          |
|-----------------------------------|----------|
| Model A+B+C with internal sensor: | ±0.10 °C |
| Model B+C with external sensor:   | ±0.04 °C |

|                      |              |           |
|----------------------|--------------|-----------|
| <b>Heating time:</b> | -45 to 23 °C | 7 minutes |
|                      | 23 to 155 °C | 8 minutes |

|                      |               |            |
|----------------------|---------------|------------|
| <b>Cooling time:</b> | 155 to 100 °C | 5 minutes  |
|                      | 100 to 23 °C  | 10 minutes |
|                      | 23 to -30 °C  | 17 minutes |
|                      | -30 to -45 °C | 25 minutes |

**Immersion depth:** 160 mm

**Resolution (user-defined):** 1 °C or 0.1°C or 0.01°C or 0.001°C

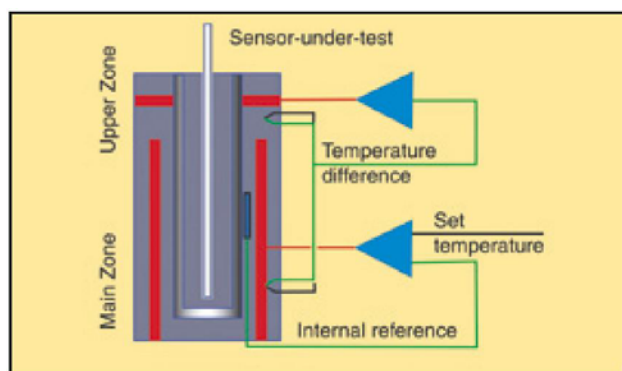
**Interface:** USB

**Weight (device):** 10.5 Kg

**Dimensions of the device (L x W x H):** 362 mm x 171 mm x 363 mm



## Dual zone heating block



The calibrators of the RTC series allow a precise temperature calibration for a variety of sensor types and formats. This becomes possible through the innovative active dual zone heating block technology.

The JOFRA RTC-156 is equipped with this dual zone heating block. Every heating zone can be controlled independently for precise temperature calibrations. The homogeneity in the lower part reaches the homogeneity of a laboratory water bath. The upper part compensates the heat loss of the device under test and the opening on the

upper side. This assembly eliminates the need to isolate the device under test and allows calibrating liquid filled and other mechanical sensors.