

# LHC 400 Basic

The LHC 400 Basic dry block temperature calibrator is a lightweight and compact device, suitable for all conditions and applications, covering different types of industries. The LHC 400 calibrator is the most advanced device in its class. Designed to work in just a few minutes, as a dry block. Thanks to the wide variety of inserts available, it allows the calibration of any probe or thermocouple. The LHC 400 has a temperature range of 40 ... 450 °C, stability 0.01°C and accuracy of 0.1°C.



## APPLICATIONS

Calibration laboratories  
Testing Laboratories  
Universities / R&D Centers  
Chemical/Pharmaceutical industry  
Food industry  
Maintenance and Service

## HIGHLIGHTS

Fast response time  
Temperature range 40 ... 450 °C  
Immersion depth: 165 mm  
Resolution: 0.1 °C over the entire range  
Stability: 0.01 °C  
Accuracy: 0.1 °C  
Uniformity: 0.05 °C  
Portable and manageable  
3 Years Warranty

### General information

User interface with dual display and 0.1 resolution  
Intuitive handling of calibration functions  
Robust against damage  
Adjustable via menus with 10 calibration points for better adjustment  
RS485 ModBus RTU communication (DB9 connector) Optional  
Top-notch performance



**Technical characteristics**

Operating temperature range (°C)	40 ... 450 °C
Accuracy	0.1°C
Resolution	0.1 °C
Reference temperature	Internal
Calibration Volume	Ø 60mm x 165 mm
Warm-up time	From 50 ... 425 °C: 22 Minutes
Cooling time	From 425 ... 100 °C: 35 Minutes
Housing and mounting	Portable
Dimensions W x L x H (mm)	(W)270 x(L) 190 x(H) 280 + 32 (Handle) mm
Weight (kg)	8 kg
Feeding	100 ... 234 Vac 50/60 Hz
Power Consumption	Aprox 1.800 W

**DRY BLOCK**

Temperature stability	±0.01 °C	
Uniformity	±0.05 °C	
Insert size	59.5mm x165mm	Built in Aluminum

## Optional inserts

1 x Ø 3.5 /1 x Ø 6.5/ 1 x Ø 8.5/ 1 x Ø 10.5 mm  
2 x Ø 3.5 /2x Ø 4.5/ 2 x Ø 6.5/ 2 x Ø 8.5/ 2 x Ø 10.5 mm  
3 x Ø 3.5 /3x Ø 6.5/ 3 x Ø 8.5/3 x Ø 10.5 mm  
2 x Ø 3.5 /1x Ø 4.5/ 1 x Ø 5.0/1 x Ø 5.5/1 x Ø 6.5/ 1 x Ø 8.5  
/1x Ø 9.0/ 1 x Ø 9.5/1 x Ø 10.5 mm

External insert for calibration of optical pyrometers (Blackbody)  
includes hole for external sensor Ø 3 mm T<sup>a</sup> range 50 ... 450 °C  
Calibration insert for surface probes. T<sup>a</sup> range 50 ... 400 °C

**Standard delivery**

Equipment LHC 400 Basic + Insert: 1 x Ø 3.5 /1 x Ø 6.5/ 1 x Ø 8.5/ 1 x Ø 10.5 mm  
Power cord EU, USA, others.  
Insert extractor  
Traceable 5-point factory calibration certificate  
Instruction manual  
3 years warranty against manufacturing defects

**Optional**

Trolley case with wheels and handle.  
ENAC calibration certificate (ISO 17025)  
RS 485 ModBus RTU communications (software included, PC cable not included).  
Various types of inserts (See section on technical characteristics of the dry block)