Muffle Furnaces

LT-G0275 - LT-G0284 | Programmable PID temperature control

Insulated chamber • Temperature and time steps • Fume outlet



1100 / 1200 °C

MAXIMUM TEMPERATURE OPTIONS

4 - 45 L

CHAMBER CAPACITY RANGE

EN 196-2 • ASTM C114 • ASTM C25 | Relevant heating and ignition steps

Photographs and Heating Components

Inner chamber, insulation, control panel and fume outlet

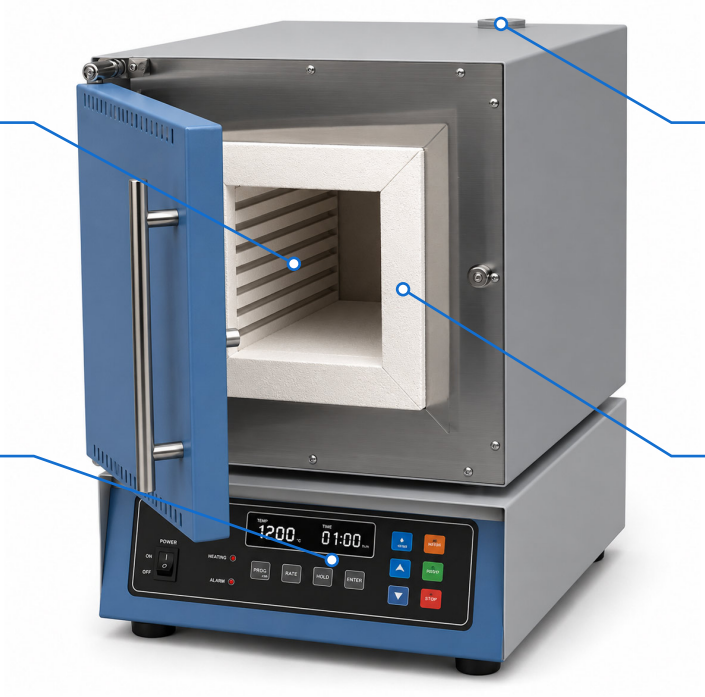
Muffle furnaces heat laboratory samples under controlled high-temperature conditions. The series offers 4, 7, 10, 20 and 45 litre chambers. PID control runs the programmed temperature and time sequence.

INNER CHAMBER

Place samples in suitable crucibles or vessels. Arrange the load according to the test procedure.

FUME OUTLET

The top outlet supports removal of process fumes. Match the installation to the laboratory arrangement.



CONTROL PANEL

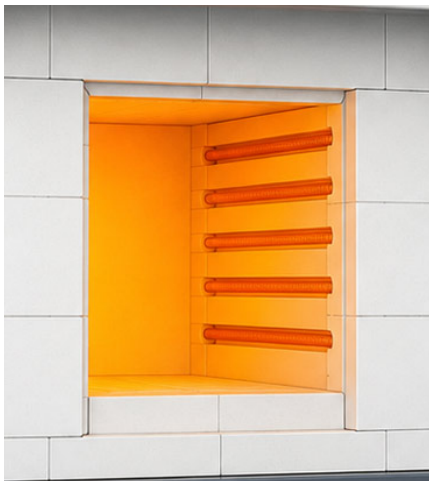
Monitor temperature and time information. Check the test program and target settings before starting.

INSULATED DOOR

Insulation around the door and chamber limits heat loss. Check door positioning for the test.



Control panel with program and temperature display



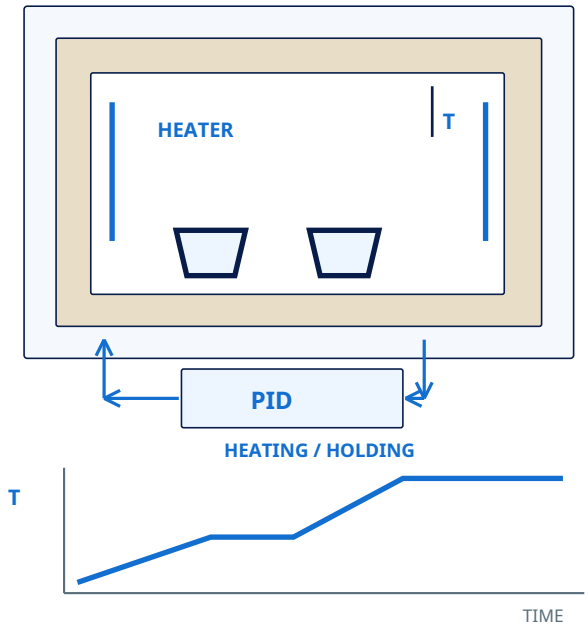
Insulation and heater region in the second open-chamber photograph

LT-G0275 - LT-G0284

PID-Controlled Heating and Holding

Load the samples • Apply the temperature program • Cool and evaluate

INSULATED CHAMBER • TEMPERATURE FEEDBACK



HEATING AND HOLDING • SCHEMATIC PROGRAM

TARGET TEMPERATURE + TIME • PID CONTROL

PRINCIPLE DRAWING, NOT TO SCALE • NOT AN ACTUAL TEST CURVE

Prepare Samples and Program

Load suitable vessels. Define the test temperature, heating steps and holding period.

Heat and Hold

PID control monitors chamber temperature and regulates heating. Follow program progress on the display.

Cool and Evaluate

Process the sample using the method cooling sequence. Complete the required weighing or evaluation.

Select the temperature program for the sample and test method. Maximum furnace temperature is not the operating temperature for every test. Crucible positioning, holding time and temperature control support comparable results.

Chamber and Program Selection

Both 1100 °C and 1200 °C series offer the same five capacities. Select a chamber for the number of samples and vessels; retain suitable loading clearances.

Programmable control stores temperature and time steps. Delayed start supports advance scheduling.

Cement and Lime Analysis

EN 196-2 and ASTM C114 cover cement chemical analysis. ASTM C25 is a method reference for limestone, quicklime and hydrated lime analysis.

Use the furnace for the relevant heating and ignition steps. Follow the selected method for sample preparation, temperature, cooling and weighing.

Model Options and Technical Data

1100 °C / 1200 °C • 4, 7, 10, 20 and 45 litre models

Product Code	Chamber Capacity	Maximum Temperature
LT-G0275	4 L	1100 °C
LT-G0276	7 L	1100 °C
LT-G0277	10 L	1100 °C
LT-G0278	20 L	1100 °C
LT-G0283	45 L	1100 °C
LT-G0279	4 L	1200 °C
LT-G0280	7 L	1200 °C
LT-G0281	10 L	1200 °C
LT-G0282	20 L	1200 °C
LT-G0284	45 L	1200 °C

Common Parameter	Technical Information
Temperature Control	Programmable PID microprocessor controller
Temperature Sensitivity	±2 °C
Power Supply	220 V, 50-60 Hz, 1 phase
Chamber Construction	Fibre insulation and heat-resistant firebricks

Test Temperature and Program Records

Set target temperature and holding time according to the test method. Retain sample identification, program and processing records together.

From Sample to Controlled Heat Treatment

01
Select Model
Match capacity and maximum temperature.

02
Load
Place samples in suitable chamber vessels.

03
Program
Define temperature and time steps.

04
Evaluate
Cool, weigh or examine by the method.

Product Page | liyatest.com.tr/en/urun/muffle-furnaces/