Muffle and Box Furnace Chambers

Integrated or board-joined ceramic fiber hot-face chambers for laboratory and production furnaces.

Construction routes

- Vacuum-formed integrated chamber for compact geometries
- Board-joined chamber for larger hot zones and higher-temperature element layouts
- Custom doors, grooves, ports, sensor openings and installation interfaces

Published 1200 C references

Hot-zone size	Supply	Power	Element
100 x 100 x 100 mm	220 V	1.2 kW	HRE / KANTHAL
300 x 200 x 200 mm	220 V	4 kW	HRE / KANTHAL
400 x 300 x 300 mm	380 V	9 kW	HRE / KANTHAL
500 x 400 x 400 mm	380 V	15 kW	HRE / KANTHAL

High-temperature route

- 1500-1900 material classifications are available.
- Resistance wire, SiC or MoSi2 selection depends on grade, temperature, chamber size and electrical design.
- Final working temperature, power and element arrangement are confirmed against the approved drawing.

RFQ inputs

- Internal hot-zone dimensions and external envelope
- Temperature, atmosphere and cycle
- Voltage, power, phase and element preference
- Door, ports, thermocouples, quantity and destination

Order specification

State the required grade, dimensions, density, construction and operating conditions with your inquiry. The quotation and approved drawing identify the supplied configuration, electrical values and agreed inspection criteria.

Document type: Technical data sheet | Revision: 2026-11 | Contact: info@synthe-corp.com