



5109

Muffle Furnace (SIMCIC)

DESCRIPTION

Electric chamber muffle furnace for the thermal treatment of solids in static air. It is the general purpose instrument for calcinations and gravimetric determinations at high temperature.

MAIN FEATURES

- Configuration: closed chamber with refractory insulation and perimeter heating elements
- Control: digital with PID loop and thermocouple; depending on the version, ramp programming
- Door: hinged, with power cut-off interlock
- Atmosphere: static air
- Usable volume: of the order of a few liters, suitable for crucibles and porcelain dishes
- Maximum temperature: depending on the model, usually up to 1000 -1100 °C (check the equipment nameplate)

MAIN APPLICATIONS

- Calcination of catalytic precursors for their conversion into oxides
- Removal by combustion of organic templates in zeolites and mesoporous materials
- Determination of ash, moisture and volatile matter
- Regeneration of deactivated catalysts by coke burn-off
- Conditioning and pre-calcination of crucibles

ASSOCIATED CAPABILITY

2105

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