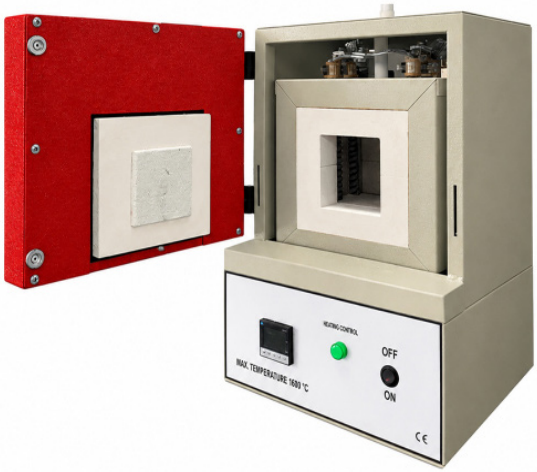

MUFFLE KILNS MKH-1600 SERIES

DESCRIPTION

Entry level line of muffle furnaces primarily used in chemical laboratories, Research Institutes, and industries for precision heat treatments, sintering of ceramic or metallic materials, calcination and ash removal processes, and high-temperature material testing. Capable to reach maximum temperature of 1600°C (constant working temperature 1450°C). Side door closure system, which is pressure-adjustable on the furnace frame for a complete seal. The door handle is electrically and thermally insulated, the metal body includes a base protector, and the exterior is finished with heat-resistant metallic paint. Refractory components designed to withstand extreme temperature fluctuations. Heat-resistant refractory insulation with a very low thermal conductivity coefficient.

TECHNICAL SPECIFICATIONS

- Maximum operating temperature: 1600°C
- Continuous temperature: 1450°C
- Time-limited temperature: 1500°C
- Type S thermocouple
- Rapid heating
- Compact and lightweight
- 24/7 continuous operation
- Heating with Kanthal SiC silicon carbide
- Low thermal mass insulation
- Made of low-density ceramic bricks and ceramic fiber
- Double insulation with air chamber
- External cladding in painted sheet metal (stainless steel optional)
- Upper ventilation via ceramic chimney
- Safety shut-off with thermocouple cut-off
- Horizontal door opening

FURNACE CONTROL

- Lower front control panel
- Main safety switch
- Main safety contactor
- PAD digital control
  - PID parameters
  - Non-volatile memory
  - Microprocessor-based temperature control
  - Alarm
- Programmer up to 64 segments
- Temperature controller with 10 programs / 25 segments – Data logger and Itools programmer communication via Ethernet (optional)
- Data logger and Itools programmer communication via Ethernet cable AMS2750E and 21CFR Part 11 (optional)

Copyright © Gabbrielli Technology S.r.l.

ACCESSORIES AND SPARE PARTS

- Interchangeable, uniform-temperature trays with protective edges to prevent spills, melting, or sticking.
- Refractory ceramic tray
- Incoloy stainless steel tray
- Flue designed for self-extraction and can be connected to a bell jar or externally by the end user.
- Forced flue designed specifically for forced self-extraction to rapidly evacuate fumes.
- Class II safety alarm. Overheat protection.
- Gas inlet
- Flow meter box

CODE	VOLUME	INNER DIMENSIONS (mm)			EXTERNAL DIMENSIONS (mm)			TEMP.	POWER	VOLT
	(Liter)	Height	Width	Depth	Height	Width	Depth	Max	(Kw)	(V)
GT3020	1	100	100	100	515	350	350	1600	2	220
GT3021	3	130	130	210	545	440	460	1600	4	230
GT3022	6	150	150	230	560	450	480	1600	6	220

Copyright © Gabbrielli Technology S.r.l.