

MUFFLE KILNS MKV–1600 SERIES

DESCRIPTION

Muffle furnace line primarily used in chemical laboratories, research Institute, and industries for precision heat treatments, sintering of ceramic or metallic materials, calcination and ash removal processes, and high-temperature material testing. Capable of reaching a maximum temperature of 1600°C (a constant temperature of 1500°C), it features a vertically-lifting door closure system, adjustable by pressing on the furnace frame, ensuring 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 are 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: 1500°C
- Time-limited temperature: 1550°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 and automatic shutdown when the door is opened.
- Vertical lift 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)

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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)
GT3023	3	250	120	120	680	480	830	1600	6	220
GT3024	6	250	150	150	700	520	830	1600	8	220
GT3025	8	170	170	250	720	550	830	1600	8	220
GT3026	10	200	200	250	750	580	830	1600	8	220
GT3027	12	300	200	200	750	580	750	1600	10	220
GT3028	15	250	250	250	970	580	750	1600	10	220
GT3029	19	250	250	300	970	580	770	1600	10	380V III
GT3030	22	300	250	300	980	640	860	1600	10	380V III
GT3031	30	250	300	400	960	640	870	1600	10	380V III
GT3032	38	250	300	500	960	640	970	1600	15	380V III

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