

MUFFLE KILNS MKV 1650–1900 SERIES

DESCRIPTION

Muffle furnace lines are 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 of reaching a maximum temperature of 1650°C to 1900°C, they feature 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: 1650°C – 1800°C – 1900°C
- Continuous temperature: 1550°C – 1700°C – 1800°C
- Limited time temperature: 1600°C – 1750°C – 1800°C
- Type S thermocouple (max. temp. 1650°C) – B thermocouple (max. temp. 1800°C –1900°C)
- Rapid heating
- Compact and lightweight
- 24/7 continuous operation
- Heating with Kanthal Super 1800 and 1900 (MoSi2)
- Low thermal mass insulation
- Made of low-density ceramic bricks and ceramic fiber
- Double insulation with air chamber
- External coating in painted sheet metal (stainless steel optional)
- Upper ventilation via ceramic chimney
- Ceramic tray included
- Safety shut-off with thermocouple cut-off and automatic shut-off 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)
- Safety shut-off with thermocouple cut-off and automatic shut-off when the door is opened. when the door is opened.

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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)
GT3033	3	150	150	150	750	480	590	1650	4	220
GT3034	6	150	200	200	750	530	660	1650	6	220
GT3035	8	200	200	200	845	525	660	1650	8	220
GT3036	12	200	200	300	800	525	700	1650	10	220
GT3037	15	250	250	250	975	575	700	1650	10	220
GT3038	22	250	300	300	975	625	750	1650	12	380V III
GT3039	30	300	300	300	1025	625	750	1650	15	380V III
GT3040	3	150	150	150	750	480	590	1800	4	220
GT3041	6	150	200	200	750	530	660	1800	6	220
GT3042	8	200	200	200	845	525	660	1800	8	220
GT3043	12	200	200	300	800	525	700	1800	10	220
GT3044	15	250	250	250	975	575	700	1800	10	220
GT3045	22	250	300	300	975	625	750	1800	12	380V III
GT3046	30	300	300	300	1025	625	750	1800	15	380V III
GT3047	3	150	150	150	750	480	590	1900	4	220
GT3048	6	150	200	200	750	530	660	1900	6	220
GT3049	8	200	200	200	845	525	660	1900	8	220
GT3050	12	200	200	300	800	525	700	1900	10	220
GT3051	15	250	250	250	975	575	700	1900	10	220
GT3052	22	250	300	300	975	625	750	1900	12	380V III
GT3053	30	300	300	300	1025	625	750	1900	15	380V III

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