

# MF SERIES

VERTICAL PARALLEL LIFT DOOR · REFINED DESIGN · CERAMIC FIBER INSULATION (1200/1400, 300/400)  
**High Quality 24/7 Continuous-T° Muffle Furnaces · from 1000°C to 1400°C**

## STANDARD FEATURES

- CE manufactured
- Maximum operating temperature:  
1000°C - 1200°C - 1300°C - 1400°C
- Rapid heating
- Compact and lightweight
- 24/7 continuous work capability
- 4 heating plates with KANTHAL AF and APM
- Low thermal mass insulation
- Built with low density ceramic bricks and ceramic fiber
- Double insulation includes air chamber
- Outer case in painted metal sheet (inox optional)
- Rear ventilation via ceramic chimney
- Ceramic tray included
- Thermocouple type K or S
- Spare parts easily replaceable by end user

## FURNACE CONTROLS

- Lower front control panel
- Solid state relay
- General safety switch
- General safety contactor
- **PAD Digital control**
  - PID parameters
  - Non-volatile memory
  - Microprocessor-based temperature controls
  - Alarm

## CONTROL OPTIONS

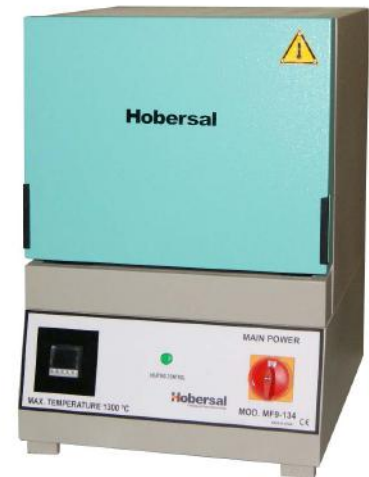
- Ramp programmers up to 64 segments
- Optional:
  - Eurotherm EPC Series + Data logger Itools software by Ethernet
  - Eurotherm Nanodac Series +Data logger and Itools software by Ethernet according AMS2750E and 21CFR Part 11

## SAFETY SHUT-OFF

- Thermocouple break shut-off
- Turns off upon door opening

## ACCESSORIES

- Interchangeable temperature-uniform trays with rim
- Refractory, incoloy, SS and ceramic tray
- Forced cooling system
- Smoke chimney
- Forced smoke chimney
- Safety alarm Class II. Over-temperature protection
- Inlet gas entry
- Flow meter box
- and more, ask for our full assortment!



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## High Quality 24/7 Continuous-T° Muffle Furnaces · From 1000°C to 1400°C

### CHARACTERISTICS

- Modern design metal case with chrome-phosphatizing base protection and external finish with heat-resistant metal paint.
- Refractory parts engineered to resist extreme temperature changes, and specific ceramic paste types applied according to temperature and work fatigue of each part.
- Heat resistance in refractory insulation of very low thermal conductivity coefficient.
- Door system adjusted on the furnace frame by pressure, allowing for complete sealing. Electrically and thermally insulated door handle.

### ACCESSORIES

- Extraction Chimney: Self-extraction design to eliminate smoke in processes that produce smoke in a considerable amount or when smoke extraction is advisable due to the nature of the process. Chimney outlet connection to a smoke bell or to the exterior by end user.
- Forced air extraction chimney: Specially designed for a forced self-extraction to evacuate smoke fastat resistance in refractory insulation of very low thermal conductivity coefficient.
- Bottom trays: Interchangeable, temperature uniform, with rim to protect against spilling, fusion or adherence of materials.

### SPECIFICATIONS

Fully customized solutions by request  
We reserve the right to change technical specifications

Model	Inner dimensions mm			Outer dimensions mm			Volume Liters	Power Kw	Voltage V	Heated Zones	Maximum Temperature ° C	Maximum Temperature ° C limited time	Maximum Temperature Continuous °C	Termo- couple	Control Type	Heating Elements
	High	Wide	Deep	High	Wide	Deep										
MF3-124	150	150	200	620	430	470	3	2,5	220	4	1200	1150	1100	K	R. Prog	Kanthal Wire
MF6-124	150	150	250	530	470	490	6	2,5	220	4	1200	1150	1100	K	R. Prog	Kanthal Wire
MF9-124	150	200	300	680	470	600	9	5,5	220	4	1200	1150	1100	K	R. Prog	Kanthal Wire
MF12-124	150	200	400	680	470	730	12	5,5	220	4	1200	1150	1100	K	R. Prog	Kanthal Wire
MF22-124	200	280	400	730	550	750	22	8,8	380 III	4	1200	1150	1100	K	R. Prog	Kanthal Wire
MF30-124	250	280	400	770	550	750	30	8,8	380 III	4	1200	1150	1100	K	R. Prog	Kanthal Wire
MF40-124	250	280	500	770	550	850	40	12,5	380 III	4	1200	1150	1100	K	R. Prog	Kanthal Wire

Model	Inner dimensions mm			Outer dimensions mm			Volume Liters	Power Kw	Voltage V	Heated Zones	Maximum Temperature ° C	Maximum Temperature ° C limited time	Maximum Temperature Continuous °C	Termo- couple	Control Type	Heating Elements
	High	Wide	Deep	High	Wide	Deep										
MF3-134	150	150	200	620	430	470	3	2,5	220	4	1300	1250	1200	S	R. Prog	Kanthal Wire
MF6-134	150	150	250	530	470	490	6	2,5	220	4	1300	1250	1200	S	R. Prog	Kanthal Wire
MF9-134	150	200	300	680	470	600	9	5,5	220	4	1300	1250	1200	S	R. Prog	Kanthal Wire
MF12-134	150	200	400	680	470	730	12	5,5	220	4	1300	1250	1200	S	R. Prog	Kanthal Wire
MF22-134	200	280	400	730	550	750	22	8,8	380 III	4	1300	1250	1200	S	R. Prog	Kanthal Wire
MF30-134	250	280	400	770	550	750	30	8,8	380 III	4	1300	1250	1200	S	R. Prog	Kanthal Wire
MF40-134	250	280	500	770	550	850	40	12,5	380 III	4	1300	1250	1200	S	R. Prog	Kanthal Wire

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	High	Wide	Deep	High	Wide	Deep										
MF3-144	150	150	200	620	430	470	3	2,5	220	4	1400	1350	1300	S	R. Prog	Kanthal Wire
MF6-144	150	150	250	530	470	490	6	2,5	220	4	1400	1350	1300	S	R. Prog	Kanthal Wire
MF9-144	150	200	300	680	470	600	9	5,5	220	4	1400	1350	1300	S	R. Prog	Kanthal Wire
MF12-144	150	200	400	680	470	730	12	5,5	220	4	1400	1350	1300	S	R. Prog	Kanthal Wire
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Up to 1000°C available