

GB SERIES

SIDE DOOR · MODERN LINES · CERAMIC FIBER INSULATION (1200, 300/400)

Economical series Muffle Furnaces · Up to 1200°C

Convincing price/performance ratio, the furnaces of the GB range are laboratory furnaces that meet the demands of each test, heated by 2 heating sides with kanthal wire . Side opening and drop down door as optional. The best economical furnace for all laboratories

STANDARD FEATURES

- CE manufactured
- Maximum operating temperature: Up to 1200°C
- Rapid heating
- Compact and lightweight
- Convincing price/performance ratio
- 2 heated sides with KANTHAL AF and APM
- Low thermal mass insulation
- Built with ceramic fiber insulation
- Double insulation includes air chamber
- Outer case in painted metal sheet (inox optional)
- Rear ventilation via ceramic chimney
- Ceramic tray included
- Thermocouple type K
- Spare parts easily replaceable by end user



FURNACE CONTROL

- Solid state relay
- **Ramp programmer up to 64 steos**
 - PID parameters
 - Non-volatile memory
 - Microprocessor-based temperature controls
 - Alarm

CONTROL OPTIONS (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

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!

GB SERIES

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MAIN APPLICATIONS

A muffle furnace is a type of high-temperature furnace that is used in various applications where high temperatures are required. Here are some common types of applications that use muffle furnaces:

- **Heat treatment:** Muffle furnaces are used for heat treatment of metals, ceramics, and other materials. This includes annealing, hardening, and tempering of metals, as well as sintering and firing of ceramics.
- **Ashing:** Muffle furnaces are used to remove organic material from a sample, leaving behind only the inorganic ash. This is commonly used in analytical chemistry for the analysis of samples such as soil, plants, and animal tissues.
- **Pyrolysis:** Muffle furnaces can be used for the thermal decomposition of organic materials, such as polymers, to produce char, gas, and other byproducts.
- **Burn-off testing:** Muffle furnaces are used for testing the resistance of materials to high temperatures, such as coatings and paints.
- **Laboratory research:** Muffle furnaces can be used in a variety of laboratory research applications, including materials science, environmental science, and geology.

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 fast at resistance in refractory insulation of very low thermal conductivity coefficient. .

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	Maximum Temperature ° C	Maximum Temperature ° C limited time	Maximum Temperature Continuous °C	Termo- couple	Control Type	Heating Elements
	High	Wide	Deep	High	Wide	Deep									
GB1-122	100	100	150	430	340	380	1,5	1,1	220	1200	1100	-----	K	R. Prog	Kanthal Wire
GB3-122	120	150	200	460	410	430	3	1,2	220	1200	1100	-----	K	R. Prog	Kanthal Wire
GB7-122	150	170	240	510	420	480	7	2,6	220	1200	1100	-----	K	R. Prog	Kanthal Wire
GB10-122	200	220	240	530	470	490	10	2,6	220	1200	1100	-----	K	R. Prog	Kanthal Wire
GB15-122	200	250	300	530	500	530	15	4	220	1200	1100	-----	K	R. Prog	Kanthal Wire

External dimensions vary when furnace is equipped with additional equipment. Dimensions on request