



FURNACES & OVENS TECHNOLOGY

# LABORATORY DIVISION

## Flex Muffel Furnace

### LF.XB -series

**1150°C – 1260°C**

SIDE SWING DOOR • BRICK INSULATION (23/26)

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# LF.XB -series

SIDE SWING DOOR • BRICK INSULATION (23/26)

**Flex Muffle Furnaces • 1150°C – 1260°C**

## Standard Features:

- CE manufactured · Affordable basic line
- Maximum temperatures 1150°C and 1260°C
- Compact and lightweight
- Designed for occasional intermittent work
- 2 heating sides with KANTHAL AF
- Double low thermal mass insulation
- Built with low density ceramic 23/26 bricks and ceramic fiber 2"
- Outer case in painted metal sheet (inox optional)
- Ceramic chimney · Thermocouple type K, S
- Spare parts easily replaceable by end user

## Chamber Options

- Fiber insulation by request

## Furnace Controls

- Lower front control panel or lateral control panel
- Solid state relay
- Ramp Programmer 1 program / 8 segments
- PID parameters
- Non-volatile memory
- Microprocessor-based temperature controls
- Alarm

## Digital Control Options

- 4 program / 15 segments programmer
- Programmers up to 64 segments
- Data logger and programmer communication by Ethernet/ RS232

## Safety Shut-Off

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

## Accessories

- Interchangeable temperature-uniform trays with rim
- Refractory ceramic tray
- Incoloy stainless steel tray
- 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!



# LF.XB -series

**SIDE SWING DOOR • BRICK INSULATION (23/26)**  
**Flex Muffle Furnaces • 1150°C – 1260°C**



## CHARACTERISTICS

- Metal case with chrome-phosphatizing base protection and external finish with heat-resistant metal paint.
- Easy loading drop down or side swing door closes hermetically, brick on brick.

## CONTROL OPTIONS

- "RAMP PROGRAMMER CONTROL: Allows for automatic temperature control and adjustment through an automatic digital adjusting pyrometer, such that temperature and temperature rise speed and inertia can be monitored at any time.

## 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.
- **Bottom trays:**  
Interchangeable, temperature uniform, with rim to protect against spilling, fusion or adherence of materials.

## SPECIFICATIONS

### FLEX MUFFEL FURNACES

*Fully customized solutions by request*  
*Manufactured according to the CEE standards BS EN 61010-1-2001*

| Article No. | Model | Internal Dimensions<br>mm |       |      | External Dimensions<br>mm |       |      | Volume<br>Liter<br>Liters | Power<br>kW<br>kW | Voltage<br>V | Maximum<br>Temperature<br>° C | T <sub>max</sub><br>limited work<br>° C | Net<br>Weight<br>kg | Termo-<br>couple | Control<br>Type | Heating<br>Elements |
|-------------|-------|---------------------------|-------|------|---------------------------|-------|------|---------------------------|-------------------|--------------|-------------------------------|-----------------------------------------|---------------------|------------------|-----------------|---------------------|
|             |       | High                      | Width | Deep | High                      | Width | Deep |                           |                   |              |                               |                                         |                     |                  |                 |                     |
|             |       |                           |       |      |                           |       |      |                           |                   |              |                               |                                         |                     |                  | P0104           |                     |

### Temperature range up to 1150°C

|           |              |      |      |      |      |      |      |      |    |                |      |      |      |   |         |             |
|-----------|--------------|------|------|------|------|------|------|------|----|----------------|------|------|------|---|---------|-------------|
| 850001312 | LF.XB-1311   | 250  | 230  | 230  | 535  | 480  | 460  | 13   | 25 | 220            | 1150 | 1100 | 50   | K | Digital | WireKanthal |
| 850004312 | LF.XB-4311   | 365  | 345  | 345  | 640  | 595  | 635  | 43   | 35 | 220            | 1150 | 1100 | 60   | K | Digital | WireKanthal |
| 850005512 | LF.XB-5511   | 480  | 345  | 345  | 750  | 595  | 635  | 55   | 4  | 220            | 1150 | 1100 | 70   | K | Digital | WireKanthal |
| 850007612 | LF.XB-7611   | 480  | 400  | 400  | 750  | 650  | 690  | 76   | 7  | 220            | 1150 | 1100 | 80   | K | Digital | WireKanthal |
| 850012012 | LF.XB-12011  | 595  | 450  | 450  | 1100 | 700  | 850  | 120  | 10 | 220            | 1150 | 1100 | 100  | K | Digital | WireKanthal |
| 850015012 | LF.XB-15011  | 600  | 500  | 500  | 1150 | 750  | 900  | 150  | 11 | 220            | 1150 | 1100 | 120  | K | Digital | WireKanthal |
| 850020012 | LF.XB-20011  | 700  | 500  | 550  | 1200 | 800  | 900  | 200  | 14 | 220            | 1150 | 1100 | 170  | K | Digital | WireKanthal |
| 850099912 | LF.XB-100011 | 1000 | 1000 | 1000 | 1600 | 1600 | 1700 | 1000 | 25 | 220 III380 III | 1150 | 1100 | 1000 | K | Digital | WireKanthal |

### Temperature range up to 1260°C

|           |              |      |      |      |      |      |      |      |    |                |      |      |      |   |         |             |
|-----------|--------------|------|------|------|------|------|------|------|----|----------------|------|------|------|---|---------|-------------|
| 850001313 | LF.XB-1312   | 250  | 230  | 230  | 535  | 480  | 460  | 13   | 25 | 220            | 1260 | 1200 | 50   | S | Digital | WireKanthal |
| 850004313 | LF.XB-4312   | 365  | 345  | 345  | 640  | 595  | 635  | 43   | 35 | 220            | 1260 | 1200 | 60   | S | Digital | WireKanthal |
| 850005513 | LF.XB-5512   | 480  | 345  | 345  | 750  | 595  | 635  | 55   | 4  | 220            | 1260 | 1200 | 70   | S | Digital | WireKanthal |
| 850007613 | LF.XB-7612   | 480  | 400  | 400  | 750  | 650  | 690  | 76   | 7  | 220            | 1260 | 1200 | 80   | S | Digital | WireKanthal |
| 850012013 | LF.XB-12012  | 595  | 450  | 450  | 1100 | 700  | 850  | 120  | 10 | 220            | 1260 | 1200 | 100  | S | Digital | WireKanthal |
| 850015013 | LF.XB-15012  | 600  | 500  | 500  | 1150 | 750  | 900  | 150  | 11 | 220            | 1260 | 1200 | 120  | S | Digital | WireKanthal |
| 850020013 | LF.XB-20012  | 700  | 500  | 550  | 1200 | 800  | 900  | 200  | 14 | 220            | 1260 | 1200 | 170  | S | Digital | WireKanthal |
| 850099913 | LF.XB-100012 | 1000 | 1000 | 1000 | 1600 | 1600 | 1700 | 1000 | 25 | 220 III380 III | 1260 | 1200 | 1000 | S | Digital | WireKanthal |

