



## MUFFLE BOX FURNACE BFX1D4 (BFMF-1300-20)

# MUFFLE BOX FURNACE BFX1D4

## STANDARD MUFFLE FURNACES



- Suitable for every kind of processes like ashing, sintering, preheating, melting, oxidizing.
- User friendly operating menu in 4 line display for easy operation.
- Durable inside lining made of light insulating bricks.
- Accurate measuring and controlling the temperature using K and S Type thermocouples.
- $\pm 1$  °C control accuracy.
- Designed for minimal space requirements in the laboratory, thanks to the highly engineered insulation design.
- Dual shell housing for low outer surface temperature.
- Optional protective gas connection, door switch, second thermocouple for different adjustable purposes.

## SPECIFICATIONS

|                                     |                           |
|-------------------------------------|---------------------------|
| Model                               | BFX1D4                    |
| Old Model                           | BFMF-1300-20              |
| Working Temperature                 | 1300 °C                   |
| Volume                              | 20L                       |
| Inner Chamber Dimensions [mm] WxHxD | 250x200x395               |
| Product Outer Dimensions [mm] WxHxD | 546x668x790               |
| Net Weight [kg]                     | 81                        |
| Power [W]                           | 4500                      |
| Max. Current [A]                    | 2x10.3 / 1x20.6           |
| Electrical Connection               | 3 or 1 Phase              |
| Heating Element                     | Fe-Cr-Al                  |
| Thermocouple Type                   | S Type                    |
| Heating Element Placement           | Embedded into brick walls |
| Inner Insulation Material           | Insulating Fire Brick     |
| Front Face Insulation Material      | Insulating Fire Brick     |
| Door Insulation Material            | Ceramic Fibre Board       |
| Housing Material                    | Steel Sheet               |
| Housing Coating                     | Epoxy powder coating      |
| Chimney                             | Standard                  |
| Heating Element Protection          | None                      |
| Lockable Door Handle                | Sideways                  |
| Gross Dimensions [mm] WxHxD         | 606x950x728               |
| Gross Weight [kg]                   | 101                       |
| Software                            | BASIC B2                  |
| Software based PID Control          | YES                       |
| Display                             | 4 lines                   |
| Heating Program with                | 4 steps                   |
| Custom Preset Program               | 2                         |
| Heating Rate °C/min.                | 1-20                      |
| Date & Time                         | YES                       |
| Auto Start at Certain Date          | NO                        |

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Show Remaining Waiting Time                                   | NO                                                                |
| Skip the Waiting Step                                         | NO                                                                |
| Temperature Calibration via Menu ( $\pm 10^{\circ}\text{C}$ ) | NO                                                                |
| Sound Warnings at Step Changes                                | YES                                                               |
| Sound Warning at the End of the Program                       | YES                                                               |
| Total Working Hour Counter                                    | YES                                                               |
| Calculator for Average Working Temperature                    | YES                                                               |
| Instantaneous Energy Consumption Indicator                    | NO                                                                |
| Over Heating Cut Off                                          | YES                                                               |
| Open Door Sensor                                              | OPTIONAL                                                          |
| PC Connection Kit                                             | OPTIONAL                                                          |
| Warranty Period                                               | 2 Years                                                           |
| Note                                                          | * Only 5th memory supports 32 levels **Independent for each level |
| Alt Name                                                      | Standard Muffle Furnaces                                          |



## FEATURES

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- Dual shell housing for low outer surface temperature.
- Optional protective gas connection, door switch, second thermocouple for different adjustable purposes.
- Lift up and Sideways opening door possibilities.
- Standard chimney with fan.
- Robust, durable and reliable.
- Ideal for all washing, burning and similar processes.
- Bottom, side and top walls and front facing insulations made of light firebrick.
- Lockable door handle.
- Optional Lift-up door.



**Biolab Scientific Ltd.**

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)