

# 1. High temperature electric furnace

## 1.1 Muffle furnaces with fiber-insulated chambers

Our high accuracy laboratory electric furnaces with fiber-insulated chambers, are designed by a group of professional engineers and made from high quality materials, which are manufactured in our factory, such as heavy-duty metal parts and thermal insulation materials. Fit with a selection of precise digital controllers and certified heating elements to ensure excellent temperature stability. The furnaces include ceramic hearth plates. To eliminate gasses or smoke that are released during thermal processing, a ventilation hole and an exhaust system may be additionally installed in the products. The furnaces are excellent for scientific laboratories, educational institutions, medicine and for industrial use, to be used for hardening, loosening, normalising, and other thermal processing up to temperatures of 1100 °C or 1300 °C.

### Basic model

- Ceramic bottom plate
- Control panel is placed in the underpart of the furnace
- Door opens upwards
- Door safety interlock switch
- Equipped with non-programmable controller Omron E5CC
- Fast heating time due to low thermal mass construction
- Good stability and uniformity
- Heating elements, embedded in a vacuum-formed fiber, are inside four walls of the chamber on models up to 1100 °C
- Heating elements are exposed on ceramic tubes on two sides of the chamber on models up to 1300 °C
- Low power consumption
- One-piece, high thermal efficiency, vacuum-formed ceramic fiber chamber
- Outside casing – metal sheet, powder painted grey
- 1 year warranty

SNOL 13/1100 LHM01



SNOL 6.7/1300 LSM01



### Options

- Additional ceramic bottom plates
- Buzzer
- Calibration of temperature measurement system
- Data communication/USB
- Data recorder
- Digital timer
- Fan-assisted chimney for air extraction
- Gas box up to 1100 °C
- Metal tray
- OTP (over temperature protection)
- Outside casing made from stainless steel
- Process observation window (ø 35 mm) up to 1100 °C
- Protective gas injection system (nitrogen or argon)
- Table for supporting the furnace
- Additional 1 year warranty

| Model               | Vol.,<br>l | Tmax,<br>°C | Chamber dimensions, mm |       |        | Outside dimensions, mm |       |        | Power,<br>kW | Voltage, V | Weight, kg | Door opening |          |           |
|---------------------|------------|-------------|------------------------|-------|--------|------------------------|-------|--------|--------------|------------|------------|--------------|----------|-----------|
|                     |            |             | Width                  | Depth | Height | Width                  | Depth | Height |              |            |            | upwards      | sideways | downwards |
| Up to 1100 °C       |            |             |                        |       |        |                        |       |        |              |            |            |              |          |           |
| SNOL 3/1100 LHM01   | 3          | 1100        | 120                    | 200   | 105    | 345                    | 470   | 430    | 1.7          | 230        | 17         | ●            | ○        | ○         |
| SNOL 8.2/1100 LHM01 | 8.2        | 1100        | 195                    | 310   | 135    | 445                    | 660   | 495    | 1.8          | 230        | 28         | ●            | ○        | ○         |
| SNOL 8.2/1100 LSM01 | 8.2        | 1100        | 195                    | 310   | 135    | 440                    | 530   | 495    | 1.8          | 230        | 28         | ○            | ●        | ○         |
| SNOL 8.2/1100 LZM01 | 8.2        | 1100        | 195                    | 310   | 135    | 440                    | 530   | 495    | 1.8          | 230        | 28         | ○            | ○        | ●         |
| SNOL 13/1100 LHM01  | 13         | 1100        | 220                    | 335   | 170    | 505                    | 685   | 555    | 1.8          | 230        | 38         | ●            | ○        | ○         |
| SNOL 22/1100 LHM01  | 22         | 1100        | 280                    | 500   | 160    | 605                    | 855   | 620    | 3.0          | 230        | 58         | ●            | ○        | ○         |
| SNOL 39/1100 LHM01  | 39         | 1100        | 320                    | 495   | 230    | 655                    | 890   | 740    | 6.0          | 400        | 74         | ●            | ○        | ○         |
| Up to 1300 °C       |            |             |                        |       |        |                        |       |        |              |            |            |              |          |           |
| SNOL 6.7/1300 LSM01 | 6.7        | 1300        | 145                    | 310   | 135    | 445                    | 575   | 525    | 2.4          | 230        | 35         | ○            | ●        | ○         |
| SNOL 10/1300 LHM01  | 10         | 1300        | 190                    | 335   | 170    | 500                    | 710   | 560    | 2.4          | 230        | 38         | ●            | ○        | ○         |