

High accuracy electric muffle furnace **SNOL 13/1100** is a universal laboratory furnace, firing up to 1100°C and designed for material testing and heat treatment such as hardening, loosening, normalising ceramic and stoneware samples. To eliminate gases or smoke that are released during thermal processing, an exhaust system may be additionally installed in the product. The furnace is an excellent fit for scientific laboratories, educational institutions, ceramic studios, medicine and industry.

DESCRIPTION

- ✓ One-piece high thermal efficiency vacuum-formed ceramic fiber chamber,
- ✓ Heating elements are embedded in vacuum-formed fiber on four sides of the chamber,
- ✓ Outside casing – metal sheet, powder painted grey,
- ✓ Door opens upwards,
- ✓ Door safety interlock switch,
- ✓ Control panel is placed in the underpart of the furnace,
- ✓ Non-programmable temperature controller – Omron E5CC,
- ✓ Ceramic bottom plates,
- ✓ Fast heating time due to low thermal mass construction,
- ✓ Low power consumption,
- ✓ Good stability and uniformity,
- ✓ 1 year warranty.

| Technical data | Units | Specifications |
|--|-------|----------------|
| Useful volume | Liter | 13 |
| Rated power not more than | kW | 1.8 |
| Rated supply voltage | V | 230 |
| Rated frequency | Hz | 50 |
| Number of phases | - | 1 |
| Continuous operating temperature | °C | T+10-1100 |
| Maximum temperature | °C | 1100 |
| Working chamber material | - | Fiber muffle |
| Maximum heating- up time (without charge), | Min. | 50 |
| Temperature stability in working chamber at rated temperature in thermal steady state without charge not more than | ± °C | 1 |
| Temperature uniformity in working space at rated temperature in thermal steady state without charge not more than | ± °C | 10 |
| Furnace working chamber dimensions: | | |
| width | mm | 220 |
| depth | mm | 335 |
| height | mm | 170 |
| Furnace dimensions: | | |
| width | mm | 505 |
| depth | mm | 685 |
| height | mm | 555 |
| Mass (Netto) | kg | 36 |

CONTROL:

- ✓ Temperature measurement by thermocouple type "K".
- ✓ PID electronic regulator, double digital display reference temperature and measured temperature.
- ✓ Products are equipped with high-precision digital microprocessor Omron or Eurotherm temperature controllers fitted with self-tuning and manual PID settings. The customer can select a basic or programmable temperature controller, which offers up to 32 programming segments (rate of temperature rise or decrease control, maintenance of present temperature, automatic shutdown). A wide range of devices allows selecting the most appropriate controller for your process.
- ✓ SSR control unit.

SUPPLIED DOCUMENTS:

- ✓ Furnace and temperature controller instructions,
- ✓ Electric diagram

OTHERS:

- ✓ CE marked

PACKING:

- ✓ Wooden box

OPTIONS:

- ✓ Eurotherm 3216 (non-programmable)
- ✓ Eurotherm 3208 (programmable)
- ✓ Omron E5CC-T (programmable)
- ✓ PC connection and SNOL software
- ✓ OTP (over temperature protection, non-adjustable)
- ✓ OTP (over temperature protection, adjustable Eurotherm 3216i)
- ✓ OTP (over temperature protection, adjustable Omron E5GC)
- ✓ Buzzer
- ✓ Timer (delayed furnace start)
- ✓ Ventilation hole ceramic tube (in the back side Ø17mm)
- ✓ Chimney
- ✓ Gas injection system for Argon or Nitrogen (flowmeter, reducer and connections)
- ✓ Gas box to operate with protective gases (up to 1150°C)
- ✓ Window Ø35mm temp. up to 1100°C

WARRANTY:

- ✓ One year limited warranty and later service for furnace
- ✓ Possibility to extend warranty for an additional 1 year

COUNTRY OF ORIGIN:

- ✓ Lithuania (EU country)



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