

A range of laboratory ovens are indented for thermal treatment of materials up to 300°C. These electric ovens are designed for thermal treatment such as drying, heating, thermal testing, and aging in an air- flow environment. Forced air convection allows a homogenous temperature distribution during all process, which ensures optimal results.

CONSTRUCTION

- ✓ Control panel on under part,
- ✓ Ventilation motor on back side,
- ✓ Inside casing in 304 stainless steel,
- ✓ Perforated shelves, adjustable position,
- ✓ Adjustable ventilation hole,
- ✓ Outside casing in metal sheet, powder painting grey RAL7035 ,
- ✓ Insulation rock wool (complete lack of asbestos),
- ✓ Door opening on the right, inner door in stainless steel, silicon joint.

| Technical data | Dimension | 20/300 LSN11 | 60/300 LSN11 | 120/300 LSN11 | 220/300 LSN11 | 420/300 LSN11 |
|--|-----------|--|--|--|--|--|
| Useful volume | Liter | 20 | 60 | 120 | 220 | 420 |
| Exploitation class (EN60529) | - | IP20 | IP20 | IP20 | IP20 | IP20 |
| Rated power not more then, | kW | 1 | 2 | 2,2 | 4 | 6,2 |
| Rated supply voltage, | V | 230 | 230 | 230 | 230 | 400 |
| Rated frequency, | Hz | 50 | 50 | 50 | 50 | 50 |
| Number of phases | - | 1 | 1 | 1 | 1 | 3 |
| Continuous operating temperature | °C | T _{amb} +10 -300 |
| Maximum temperature | °C | 300 | 300 | 300 | 300 | 300 |
| Working chamber material | - | St. steel |
| Working chamber surroundings | - | air (with hot air fan, adjustable) | air (with hot air fan, adjustable) | air (with hot air fan, adjustable) | air (with hot air fan, adjustable) | air (with hot air fan, adjustable) |
| Airflow | | Horizontal | Horizontal | Horizontal | Horizontal | Horizontal |
| Change of air in the camber at 300°C | Times/h | 21 | 16 | 9 | 6 | - |
| Shelves number (standard/maximum) | | 2/5 | 3/7 | 3/7 | 3/7 | 3/7 |
| Non concentrated load of one shelf | Kg | 10 | 10 | 15 | 15 | 15 |
| Total limiting load | Kg | 20 | 30 | 40 | 50 | 50 |
| Maximum heating- up time (without charge), | Min. | 34 | 34 | 45 | 30 | 30 |
| Temperature stability in working chamber at rated temperature in thermal steady state without charge not more than | ± °C | ±0,3 | ±0,3 | ±0,3 | ±0,3 | ±0,3 |
| Temperature uniformity in working space at rated temperature in thermal steady state without charge not more than | at 100°C | ±1,1 | ±0,9 | ±0,8 | ±1,3 | ±2,5 |
| | at 200°C | ±1,7 | ±1,4 | ±1,5 | ±2 | ±5,3 |
| | at 300°C | ±2,3 | ±2,0 | ±1,9 | ±2,5 | ±7,4 |
| Working chamber dimensions: | | | | | | |
| width | mm | 240 | 380 | 550 | 730 | 1000 |
| depth | mm | 280 | 380 | 400 | 500 | 500 |
| height | mm | 340 | 420 | 580 | 620 | 860 |
| External dimensions: | | | | | | |
| width | mm | 460 | 600 | 750 | 930 | 1200 |
| depth | mm | 680 | 760 | 780 | 880 | 930 |
| height | mm | 640 | 720 | 880 | 915 | 1200 |
| Mass (Netto) | kg | 34 | 50 | 70 | 102 | 155 |

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. A wide range of devices allows selecting the most appropriate controller for your process.*
- ✓ SSR control unit.

OPTIONS:

- ✓ Buzzer –
- ✓ Timer –
- ✓ OTP (over temperature protection) –
- ✓ Omron E5CC-T (programmable) –
- ✓ Eurotherm 3216 (non-programmable) –
- ✓ Eurotherm 3208 (programmable) –
- ✓ Interface RS 232 or 485 –
- ✓ PC connection and computer software SNOL 12V.1 –
- ✓ Metal tray (box) for samples treatment –
- ✓ Protective gas box & equipment for gas inlet – price by request.

CUSTOMS CODE:

- ✓ Customs tariff TARIC – 8514108090

PACKING:

- ✓ Wooden box

SUPPLIED DOCUMENTS:

- ✓ Furnace and temperature controller instructions,
- ✓ Electric diagram.
- ✓ CE declaration.

SPARE PARTS:

| Oven line up to 300°C, € | 20/300 | 60/300 | 120/300 | 220/300 | 420/300 |
|--------------------------|--------|--------|---------|---------|---------|
| Standard shelf | | | | | |
| Hardened shelf | | | | | |
| Thermocouple (J type) | | | | | |
| Air fan | | | | | |
| Air fan controller | | | | | |
| Silicon profile | | | | | |
| Heating elements set | | | | | |

Pictures for illustration only



APPLICATIONS: DRYING