

Muffle Furnaces with Brick Insulation up to 1300 °C

Heating elements on support tubes radiating freely into the furnace chamber provide for particularly short heating times for these muffle furnaces. Thanks to their robust lightweight refractory brick insulation, they can reach a maximum working temperature of 1300 °C. These muffle furnaces thus represent an interesting alternative to the familiar L(T) ../12 models, when you need a higher application temperature.

Standard Equipment

- Tmax 1300 °C
- Heating from two sides
- Heating elements on support tubes ensure free heat radiation and a long service life
- Multi-layer insulation with robust lightweight refractory bricks in the furnace chamber
- Optional flap door (L) which can be used as work platform or lift door (LT) with hot surface facing away from the operator
- Adjustable air inlet in the furnace door
- Exhaust air outlet in rear wall of furnace
- Controller B410 (5 programs with each 4 segments), alternative controllers see page 75



Muffle furnace L 9/13 with flap door

Additional Equipment

- Chimney, chimney with fan or catalytic converter see page 24
- Over-temperature limiter with adjustable cutout temperature for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the furnace and load
- Protective gas connection to purge with non-flammable protective or reaction gases (not available in combination with chimney, chimney with fan or catalytic converter) not gas tight
- Manual or automatic gas supply system
- Port for thermocouple in the rear wall or in the furnace door
- Please see page 25 for more accessories

| Model | Tmax in °C ¹ | Inner dimensions in mm | | | Volume in l | Outer dimensions ² in mm | | | Temperature uniformity of +/- 5K in the empty workspace | | | Connected load in kW | Electrical connection* | Weight in kg | Heating time in min ⁴ |
|-------------|----------------------------|------------------------|-----|-----|----------------|-------------------------------------|-----|----------------|---|-----|-----|----------------------------|---------------------------|-----------------|--|
| | | w | d | h | | W | D | H ³ | w | d | h | | | | |
| L, LT 5/13 | 1300 | 200 | 170 | 130 | 5 | 490 | 450 | 580+320 | 150 | 150 | 80 | 2.4 | 1-phase | 42 | 60 |
| L, LT 9/13 | 1300 | 230 | 240 | 170 | 9 | 530 | 525 | 630+350 | 180 | 220 | 120 | 3.0 | 1-phase | 60 | 60 |
| L, LT 15/13 | 1300 | 230 | 340 | 170 | 15 | 530 | 625 | 630+350 | 180 | 320 | 120 | 3.5 | 1-phase | 70 | 70 |

¹Recommended working temperature for processes with longer dwell times is 1200 °C

²External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

³Including opened lift door (LT models)

⁴Heating time of the empty and closed furnace up to Tmax -100 K (connected to 230 V 1/N/PE)

*Please see page 75 for more information about supply voltage



Muffle furnace LT 5/13 with lift door



Furnace lining with high-quality lightweight refractory brick insulation



Example of an over-temperature limiter