

Muffle Furnaces with Flap Door or Lift Door



Muffle furnace L 3/12



Muffle furnace L 5/11

The muffle furnaces L 1/12 - LT 40/12 are the right choice for daily laboratory use. These models stand out for their excellent workmanship, advanced and attractive design, and high level of reliability. The muffle furnaces come equipped with either a flap door or lift door at no extra charge.

- Tmax 1100 °C or 1200 °C
- Heating from two sides by ceramic heating plates (heating from three sides for muffle furnaces L 24/11 - LT 40/12)
- Ceramic heating plates with integral heating element which is safeguarded against fumes and splashing, and easy to replace
- Only fiber materials are used which are not classified as carcinogenic according to TRGS 905, class 1 or 2
- Housing made of sheets of textured stainless steel
- Dual shell housing for low external temperatures and high stability
- 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 integrated in door (see illustration)
- Exhaust air outlet in rear wall of furnace
- Solid state relays provide for low-noise operation
- Defined application within the constraints of the operating instructions
- NTLog Basic for Nabertherm controller: recording of process data with USB-flash drive
- Controls description see page 72



Observation hole in the door as additional equipment

Additional equipment

- Chimney, chimney with fan or catalytic converter (not for L 1)
- 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)
- Observation hole in the door
- Manual or automatic gas supply system
- Please see page 14 for more accessories
- Process control and documentation via VCD software package for monitoring, documentation and control see page 75



Over-temperature limiter



Muffle furnace LT 5/12



Muffle furnace L 3/11

Model Flap door	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions ³ in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax ²
		w	d	h		W	D	H				
L 3/11	1100	160	140	100	3	385	330	405	1.2	1-phase	20	60
L 5/11	1100	200	170	130	5	385	390	460	2.4	1-phase	30	60
L 9/11	1100	230	240	170	9	415	455	515	3.0	1-phase	35	75
L 15/11	1100	230	340	170	15	415	555	515	3.5	1-phase	40	95
L 24/11	1100	280	340	250	24	490	555	580	4.5	3-phase	55	95
L 40/11	1100	320	490	250	40	530	705	580	6.0	3-phase	65	95
L 1/12	1200	90	115	110	1	290	280	430	1.5	1-phase	10	25
L 3/12	1200	160	140	100	3	385	330	405	1.2	1-phase	20	75
L 5/12	1200	200	170	130	5	385	390	460	2.4	1-phase	30	75
L 9/12	1200	230	240	170	9	415	455	515	3.0	1-phase	35	90
L 15/12	1200	230	340	170	15	415	555	515	3.5	1-phase	40	110
L 24/12	1200	280	340	250	24	490	555	580	4.5	3-phase	55	110
L 40/12	1200	320	490	250	40	530	705	580	6.0	3-phase	65	110



Gas supply system for non-flammable protective or reactive gas with shutoff valve and flow meter with regulator valve, optionally with magnetic valve

Model Lift door	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions ³ in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax ²
		w	d	h		W	D	H ¹				
LT 3/11	1100	160	140	100	3	385	330	405+155	1.2	1-phase	20	60
LT 5/11	1100	200	170	130	5	385	390	460+205	2.4	1-phase	30	60
LT 9/11	1100	230	240	170	9	415	455	515+240	3.0	1-phase	35	75
LT 15/11	1100	230	340	170	15	415	555	515+240	3.5	1-phase	40	95
LT 24/11	1100	280	340	250	24	490	555	580+320	4.5	3-phase	55	95
LT 40/11	1100	320	490	250	40	530	705	580+320	6.0	3-phase	65	95
LT 3/12	1200	160	140	100	3	385	330	405+155	1.2	1-phase	20	75
LT 5/12	1200	200	170	130	5	385	390	460+205	2.4	1-phase	30	75
LT 9/12	1200	230	240	170	9	415	455	515+240	3.0	1-phase	35	90
LT 15/12	1200	230	340	170	15	415	555	515+240	3.5	1-phase	40	110
LT 24/12	1200	280	340	250	24	490	555	580+320	4.5	3-phase	55	110
LT 40/12	1200	320	490	250	40	530	705	580+320	6.0	3-phase	65	110

¹Including opened lift door

*Please see page 73 for more information about supply voltage

²If connected at 230 V 1/N/PE resp. 400 V 3/N/PE

³External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.



Adjustable air inlet integrated in the door