

## Professional Furnaces with Flap Door or Lift Door



L 1/12



L 5/11

### L 1/12 - LT 40/12

Our L 1/12 - LT 40/12 series is 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 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 models L 24/11 - LT 40/12)
- Ceramic heating plates with integral heating element which is safeguarded against fumes and splashing, and easy to replace
- Highly durable cured vacuum fiber module lining
- 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
- Controls description see page 60

### Additional equipment

- Chimney, chimney with fan or catalytic converter
- Over-temperature limit controller with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the oven and load
- Protective gas connection on the rear wall of furnace
- Manual or automatic gas supply system
- Please see page 13 for more accessories
- Process control and documentation with Controltherm MV software package see page 61



Over-temperature limit controller



LT 15/12



LT 24/11

Model	Flap door	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax <sup>2</sup>
			w	d	h		W	D	H				
L 3/11	1100	160	140	100	3	380	370	420	1.2	single-phase	20	60	
L 5/11	1100	200	170	130	5	440	470	520	2.4	single-phase	35	60	
L 9/11	1100	230	240	170	9	480	550	570	3.0	single-phase	45	75	
L 15/11	1100	230	340	170	15	480	650	570	3.6	single-phase	55	90	
L 24/11	1100	280	340	250	24	560	660	650	4.5	3-phase	75	95	
L 40/11	1100	320	490	250	40	600	790	650	6.0	3-phase	95	95	
L 1/12	1200	90	115	110	1	250	265	340	1.5	single-phase	10	25	
L 3/12	1200	160	140	100	3	380	370	420	1.2	single-phase	20	75	
L 5/12	1200	200	170	130	5	440	470	520	2.4	single-phase	35	75	
L 9/12	1200	230	240	170	9	480	550	570	3.0	single-phase	45	90	
L 15/12	1200	230	340	170	15	480	650	570	3.6	single-phase	55	105	
L 24/12	1200	280	340	250	24	560	660	650	4.5	3-phase	75	110	
L 40/12	1200	320	490	250	40	600	790	650	6.0	3-phase	95	110	



L 5/11 with gas supply system

Model	Lift door	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax <sup>2</sup>
			w	d	h		W	D	H <sup>1</sup>				
LT 3/11	1100	160	140	100	3	380	370	420+165	1.2	single-phase	20	60	
LT 5/11	1100	200	170	130	5	440	470	520+220	2.4	single-phase	35	60	
LT 9/11	1100	230	240	170	9	480	550	570+290	3.0	single-phase	45	75	
LT 15/11	1100	230	340	170	15	480	650	570+290	3.6	single-phase	55	90	
LT 24/11	1100	280	340	250	24	560	660	650+335	4.5	3-phase	75	95	
LT 40/11	1100	320	490	250	40	600	790	650+335	6.0	3-phase	95	95	
LT 3/12	1200	160	140	100	3	380	370	420+165	1.2	single-phase	20	75	
LT 5/12	1200	200	170	130	5	440	470	520+220	2.4	single-phase	35	75	
LT 9/12	1200	230	240	170	9	480	550	570+290	3.0	single-phase	45	90	
LT 15/12	1200	230	340	170	15	480	650	570+290	3.6	single-phase	55	105	
LT 24/12	1200	280	340	250	24	560	660	650+335	4.5	3-phase	75	110	
LT 40/12	1200	320	490	250	40	600	790	650+335	6.0	3-phase	95	110	



Adjustable air inlet integrated in the door

<sup>1</sup>Including opened lift door  
<sup>2</sup>If connected at 230 V 1/N/PE resp. 400 V 3/N/PE  
 \*Please see page 60 for more information about supply voltage

## Compact Muffle Furnaces



LE 1/11



LE 6/11



LE 4/11

### LE 1/11 - LE 14/11

With their unbeatable price/performance ratio, these compact muffle furnaces are perfect for many applications in the laboratory. Quality features like the dual shell furnace housing of rust-free stainless steel, their compact, lightweight constructions, or the heating elements encased in quartz glass tubes make these models reliable partners for your application.

- Tmax 1100 °C, working temperature 1050 °C
- Heating from two sides from heating elements in quartz glass tubes
- Maintenance-friendly replacement of heating elements and insulation
- Multilayered insulation with fiber plates in the furnace chamber
- Housing made of sheets of textured stainless steel
- Dual shell housing for low external temperatures and high stability
- Flap door which can also be used as a work platform
- Exhaust air outlet in rear wall
- Solid state relays provide for low-noise operation
- Compact dimensions and light weight
- Controller mounted in side space (under the door on the LE 1/11, LE 2/11 and LE 4/11 to save space)
- Controls description see page 60



Over-temperature limit controller

### Additional equipment

- Chimney, chimney with fan or catalytic converter
- Over-temperature limit controller with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the oven and load
- Protective gas connection on the rear wall of furnace
- Manual gas supply system
- Please see page 13 for more accessories
- Process control and documentation with Controltherm MV software package see page 61

Model	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax <sup>1</sup>
		w	d	h		W	D	H				
LE 1/11	1100	90	115	110	1	250	265	340	1.5	single-phase	10	10
LE 2/11	1100	110	180	110	2	275	380	350	1.8	single-phase	10	25
LE 4/11	1100	170	200	170	4	335	400	410	1.8	single-phase	15	35
LE 6/11	1100	170	200	170	6	510	400	320	1.8	single-phase	18	35
LE 14/11	1100	220	300	220	14	555	500	370	2.9	single-phase	25	40

<sup>1</sup>If connected at 230 V 1/N/PE resp. 400 V 3/N/PE

\*Please see page 60 for more information about supply voltage

## Muffle Furnaces with Brick Insulation and Flap Door or Lift Door



LT 15/13



L 9/13

### L 5/13 - LT 15/13

Heating elements on support tubes radiating freely into the furnace chamber provide for particularly short heating times for these models. Thanks to their robust lightweight refractory brick insulation, they can reach a maximum working temperature of 1300 °C. These models thus represent an interesting alternative to the familiar L(T) 3/11 models, when you need particularly short heating times or a higher application temperature.

- Tmax 1300 °C
- Heating from two sides from heating elements
- Heating elements on support tubes ensure free heat radiation and a long service life
- Multilayer insulation with robust lightweight refractory bricks in the furnace chamber
- Housing made of sheets of textured stainless steel
- Dual shell housing for low external temperatures and 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 in the furnace door
- Exhaust air outlet in rear wall of furnace
- Solid state relays provide for low-noise operation
- Controls description see page 60

### Additional equipment

- Chimney, chimney with fan or catalytic converter
- Over-temperature limit controller with manual reset for thermal protection class 2 in accordance with EN 60519-2 as temperature limiter to protect the oven and load
- Protective gas connection on the rear wall of furnace
- Manual or automatic gas supply system
- Please see page 13 for more accessories



Furnace lining with high-quality lightweight refractory brick insulation



Over-temperature limit controller

Model Flap door	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax <sup>2</sup>
		w	d	h		W	D	H				
L 5/13	1300	200	170	130	5	440	470	520	2.4	single-phase	42	45
L 9/13	1300	230	240	170	9	480	550	570	3.0	single-phase	60	50
L 15/13	1300	230	340	170	15	480	650	570	3.6	single-phase	70	60

Model Lift door	Tmax °C	Inner dimensions in mm			Volume in l	Outer dimensions in mm			Connected load kW	Electrical connection*	Weight in kg	Minutes to Tmax <sup>2</sup>
		w	d	h		W	D	H <sup>1</sup>				
LT 5/13	1300	200	170	130	5	440	470	520+220	2.4	single-phase	42	45
LT 9/13	1300	230	240	170	9	480	550	570+290	3.0	single-phase	60	50
LT 15/13	1300	230	340	170	15	480	650	570+290	3.6	single-phase	70	60

<sup>1</sup>Including opened lift door

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

\*Please see page 60 for more information about supply voltage

