Ashing Furnaces up to 1100 °C

Ashing furnace LV(T) .. 11 is designed especially for ashing processes to 1050 °C in the laboratory. Applications include determining loss on ignition, ashing food and plastics for subsequent substance analysis. A special fresh-air and exhaust air system ensures that the air is replaced 6 times per minute so that there is always sufficient oxygen for the ashing process. Incoming air passes the furnace heating and is pre-heated to ensure good temperature uniformity.

Ashing furnace LV 5/11

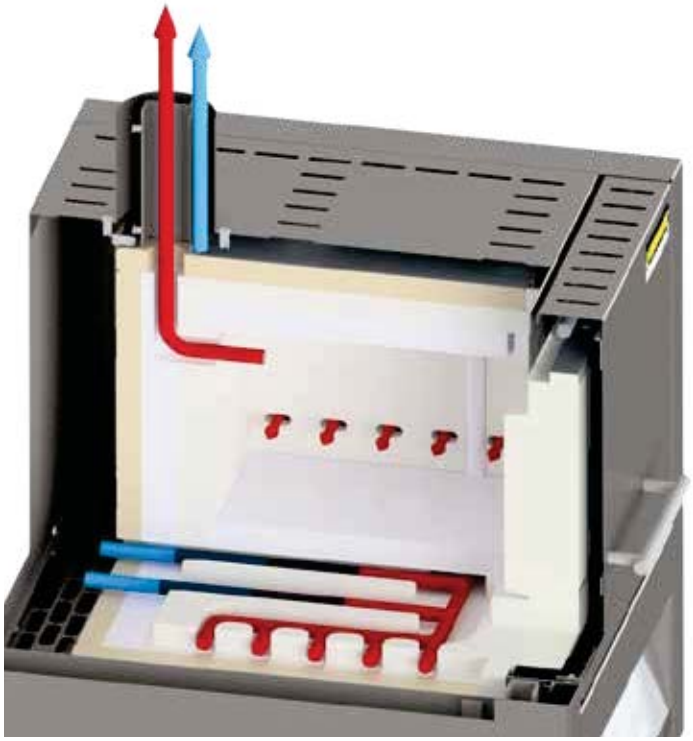
Standard Equipment

- Tmax 1100 °C
- Heating from two sides
- Ceramic heating plates with integral heating element which is safeguarded, and easy to replace
- Air exchange of more than 6 times per minute
- Good temperature uniformity due to preheating of incoming air, temperature uniformity according to DIN 17052-1 to +/– 10 °C in the defined empty work area (from 550 °C) see page 73
- Suitable for many standardized ashing processes according to ISO, ASTM, EN, and DIN
- Optional flap door (LV) which can be used as work platform or lift door (LVT) with hot surface facing away from the operator
- Controller with touch operation B510 (5 programs with each 4 segments), alternative controllers see page 84

Ashing furnace LVT 9/11

Additional Equipment

- Over-temperature limiter with adjustable cutout temperature as temperature limiter to protect the furnace and load
- Port for thermocouple in the rear wall or in the furnace door
- Charging rack with closed or perforated trays for loading the furnace in two levels incl. holder for inserting/removing the trays up to a max. temperature of 800 °C and a max. loading weight per layer of 2 kg for the L(T) 9/11 respectively 3 kg for the LV(T) 15/11 see page 17
- Please see page 17 for more accessories



Air inlet and exhaust flow principle in ashing furnaces

Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions[2] in mm			Max. weight of hydrocarbons	Max. evapo-ration rate	Max. connected load	Electrical	Weight	Heating time
Flap door	in °C[1]	w	d	h	in l	W	D	H[3]	in g	g/min	in kW	connection*	in kg	in min[4]
LV 3/11	1100	180	150	120	3	345	390	810	5	0.1	1.3	1-phase	20	45
LV 5/11	1100	205	170	130	5	385	415	810	10	0.2	2.6	1-phase	29	55
LV 9/11	1100	235	240	170	9	415	485	865	15	0.3	3.3	1-phase	36	70
LV 15/11	1100	230	340	170	15	415	590	865	25	0.3	3.6	1-phase	44	80

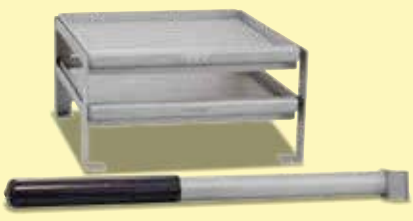
Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions[2] in mm			Max. weight of hydrocarbons	Max. evapo-ration rate	Max. connected load	Electrical	Weight	Heating time
Lift door	in °C[1]	w	d	h	in l	W	D	H[3]	in g	g/min	in kW	connection*	in kg	in min[4]
LVT 3/11	1100	180	150	120	3	345	390	810	5	0.1	1.3	1-phase	20	45
LVT 5/11	1100	205	170	130	5	385	415	810	10	0.2	2.6	1-phase	29	55
LVT 9/11	1100	235	240	170	9	415	485	865	15	0.3	3.3	1-phase	36	70
LVT 15/11	1100	230	340	170	15	415	590	865	25	0.3	3.6	1-phase	44	80

[1]Recommended working temperature for processes with longer dwell times is 1000 °C
[2]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.
[3]Including exhaust tube (Ø 80 mm)
[4]Approx. heating time of the empty and closed furnace up to Tmax –100 K (connected to 230 V 1/N/PE)

*Please see page 84 for more information about supply voltage

Furnace chamber with air inlet openings for air exchange of more than 6 times per minute

Ashing furnace LV 5/11 with port for thermocouple in the rear wall of furnace



Charging rack to load the furnace in different levels