Ashing Furnaces up to 1100 °C

Ashing furnace LV ../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 3/11

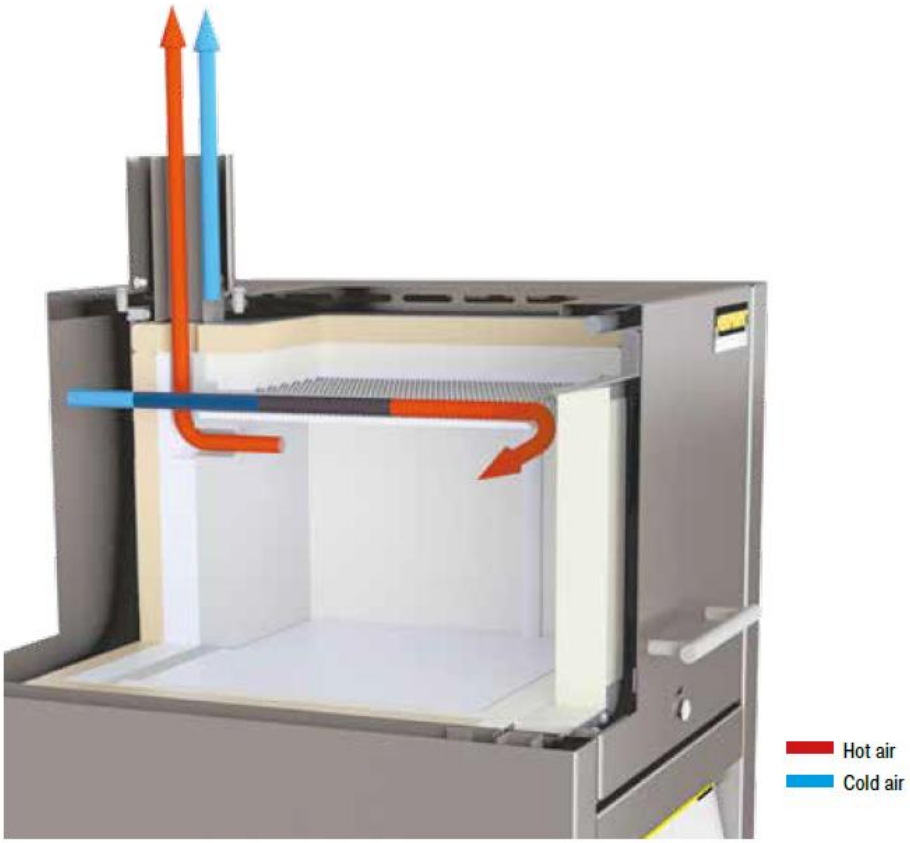
Standard Equipment

- 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 71
- 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 B410 (5 programs with each 4 segments), alternative controllers see page 75

Ashing furnace LVT 5/11

Additional Equipment

- 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
- Port for thermocouple in the rear wall or in the furnace door
- Charging trolley with solid or perforated trays to load the furnace in different levels, including holders to insert/remove the trays
- Please see page 25 for more accessories



Air inlet and exhaust flow principle in ashing furnaces

Model Flap door	Tmax in °C[1]	Inner dimensions in mm w	 d	 h	Volume in l	Outer dimensions[2] in mm W	 D	 H[3]	Max. weight of hydrocarbons in g	Max. evaporation rate g/min	Connected load in kW	Electrical connection*	Weight in kg	Heating time in min[4]
LV 3/11	1100	160	140	100	3	385	360	735	5	0.1	1.2	1-phase	20	45
LV 5/11	1100	200	170	130	5	385	420	790	10	0.2	2.4	1-phase	35	55
LV 9/11	1100	230	240	170	9	415	485	845	15	0.3	3.0	1-phase	45	70
LV 15/11	1100	230	340	170	15	415	585	845	25	0.3	3.5	1-phase	55	80

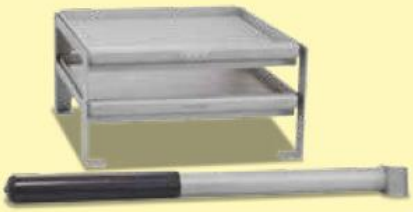
Model Lift door	Tmax in °C[1]	Inner dimensions in mm w	 d	 h	Volume in l	Outer dimensions[2] in mm W	 D	 H[3]	Max. weight of hydrocarbons in g	Max. evaporation rate g/min	Connected load in kW	Electrical connection*	Weight in kg	Heating time in min[4]
LVT 3/11	1100	160	140	100	3	385	360	735	5	0.1	1.2	1-phase	20	45
LVT 5/11	1100	200	170	130	5	385	420	790	10	0.2	2.4	1-phase	35	55
LVT 9/11	1100	230	240	170	9	415	485	845	15	0.3	3.0	1-phase	45	70
LVT 15/11	1100	230	340	170	15	415	585	845	25	0.3	3.5	1-phase	55	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 75 for more information about supply voltage

Ceramic collecting pan

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



Charging trolley to load the furnace in different levels