

## Ashing Furnaces with Integrated Exhaust Gas Cleaning up to 1100 °C

The ashing furnace L ../11 BO is specially designed for processes in which larger sample quantities have to be incinerated. Fields of application are e.g. the ashing of food, thermal cleaning of injection molding tools or the determination of annealing loss. Another application is the debinding of ceramic products, e.g. after additive production.

The ashing furnaces have a passive safety system and integrated exhaust gas post combustion. An exhaust gas fan extracts flue gases from the furnace and simultaneously supplies fresh air to the furnace atmosphere with the result that sufficient oxygen is always available for the incineration process. The incoming air is guided behind the furnace heating and preheated to ensure good temperature uniformity. Exhaust gases are led from the furnace chamber to the integrated post combustion system, where they are postburned and catalytically cleaned. Directly after the incineration process (up to max. 600 °C) a subsequent process up to max. 1100 °C can take place.



Ashing furnace L 40/11 BO

## Standard Equipment

- Tmax 600 °C for the incineration process
- Tmax 1100 °C for the subsequent process
- Three-side heating (both sides and bottom)
- Ceramic heating plates with embedded heating wire
- Steel collecting pan protects the bottom insulation
- Spring-assisted closing of the furnace door (flap door) with mechanical locking against unintentional opening
- Thermal/catalytic post combustion, integrated in the exhaust channel, up to 600 °C in function
- Temperature control of post combustion can be set up to 850 °C
- Monitored exhaust air
- Inlet-air preheated through the bottom heating plate
- 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
- Controller C450 (10 programs with each 20 segments), alternative controllers see page 75

Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions <sup>2</sup> in mm			Max. weight of hydrocarbons	Max. evaporation rate	Connected load	Electrical	Weight
	in °C1	w	d	h	in I	W	D	H <sup>3</sup>	in g	g/min	in kW	connection*	in kg
L 9/11 BO	1100	230	240	170	9	415	575	750	75	1.0	7.0	3-phase	60
L 24/11 BO	1100	280	340	250	24	490	675	800	150	2.0	9.0	3-phase	90
L 40/11 BO	1100	320	490	250	40	530	825	800	200	2.1	11.5	3-phase	110

<sup>1</sup>Recommended working temperature for processes with longer dwell times is 1000 °C

<sup>2</sup>External dimensions vary when furnace is equipped with additional equipment. Dimensions on request. <sup>3</sup>Including exhaust tube (Ø 80 mm) \*Please see page 75 for more information about supply voltage



Ashing furnace L 9/11 BO



Schematic presentation of air circulation in ashing furnace L 24/11 BO



Steel collecting pan protects the bottom insulation