

High-Temperature Furnaces with Scale for Determination of Combustion Loss and Thermogravimetric Analysis (TGA) up to 1750 °C

These high-temperature furnaces were specially developed to determine combustion loss during annealing and for thermogravimetric analysis (TGA) in the lab. The complete system consists of the high-temperature furnace for 1600 °C or 1750 °C, a table frame, precision scale with feedthroughs into the furnace and powerful software for recording both the temperature curve and the weight loss over time.



High-temperature furnace LHT 04/16 SW with scale for measuring weight reduction during annealing

Standard Equipment

- Tmax 1600 °C or 1750 °C
- High-quality molybdenum disilicide heating elements
- Dual shell housing made of textured stainless steel sheets with additional fan cooling for low surface temperature
- Adjustable air inlet
- Exhaust air opening in the roof
- Type B thermocouple
- Delivery includes base, ceramic plunger with base plate in the furnace lining, precision scale and software package
- 4 scales available for different maximum weights and scaling ranges
- Process control and documentation for temperature and combustion loss via VCD software package for monitoring, documentation and control see page 74

Model	Tmax in °C	Inner dimensions in mm			Volume in l	Outer dimensions ¹ in mm			Connected load in kW	Electrical connection*	Weight in kg	Heating time in min ²
		w	d	h		W	D	H				
LHT 04/16 SW	1600	150	150	150	4	655	370	890	5.0	3-phase ³	85	25
LHT 04/17 SW	1750	150	150	150	4	655	370	890	5.0	3-phase ³	85	30

¹External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.

²Heating time of the empty and closed furnace up to Tmax –100 K (connected to 230 V 1/N/PE resp. 400 V 3/N/PE)

³Heating only between two phases

*Please see page 75 for more information about supply voltage

Scale type	Readability in g	Maximum weighing range in g	Weight of plunger in g	Calibration value in g	Minimum load in g
EW-2200	0.01	2200 incl. plunger	850	0.1	0.5
EW-4200	0.01	4200 incl. plunger	850	0.1	0.5
EW-6200	0.01	6200 incl. plunger	850	-	1.0
EW-12000	0.10	12000 incl. plunger	850	1.0	5.0



4 scales available for different maximum weights and scaling ranges



Software for documentation of the temperature curve and combustion loss using a PC



High-quality molybdenum disilicide heating elements