High-Temperature Furnaces with Molybdenum Disilicide Heating Elements and Refractory Brick Insulation up to 1700 °C

High-temperature furnaces HFL 16/16 - HFL 160/17 have a sturdy cladding made from refractory insulation. This design offers better protection if the process produces aggressive gases or acids, such as when glass is melted.

High-temperature furnace HFL 16/17 DB50 with gas supply system

Standard Equipment

Like high-temperature furnaces HT (see page 66), except:

- Tmax 1600 °C or 1700 °C
- Robust refractory brick insulation and special backing insulation
- Furnace floor made of lightweight refractory bricks accommodates higher charge weights

Additional Equipment

- Cooling system to cool the furnace with a defined temperature gradient or with a preset fresh air volume. Both operating modes can be switched on and off for different segments by means of the extra function of the controller.
- Thermocouple inlet with screw cap
- Thermocouple for the heating control with calibration certificate
- Protective gas connection to purge with non-flammable process gases (not completely gas-tight)
- Automatic gas supply system with solenoid valve and rotameter, controlled by the extra function of the controller
- Lift door
- Automatic door lock incl. door contact switch
- Heating elements protected against mechanical damage
- Ethernet interface

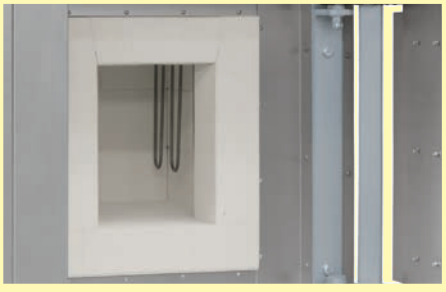
Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions[1] in mm			Connected	Electrical	Weight
	in °C	w	d	h	in l	W	D	H	load[3] in kW	connection*	in kg
HFL 16/16	1600	200	300	260	16	1010	890	1990	12.5	3-phase[2]	530
HFL 40/16	1600	300	350	350	40	1140	940	2260	12.5	3-phase	735
HFL 64/16	1600	400	400	400	64	1240	990	2310	18.5	3-phase	910
HFL 160/16	1600	500	550	550	160	1410	1240	2490	21.5	3-phase	1290
HFL 16/17	1700	200	300	260	16	1010	890	1990	12.5	3-phase[2]	530
HFL 40/17	1700	300	350	350	40	1140	940	2260	12.5	3-phase	735
HFL 64/17	1700	400	400	400	64	1240	990	2310	18.5	3-phase	910
HFL 160/17	1700	500	550	550	160	1410	1240	2490	21.5	3-phase	1290

[1]External dimensions vary when furnace is equipped with additional equipment. Dimensions on request.
[2]Heating only between two phases
[3]The connected load refers to the standard furnace and may increase for a furnace with additional equipment. For furnaces with connection options for multi-range voltages, the connected load applies to the highest permissible connected voltage.

*Please see page 84 for more information about supply voltage

Automatic gas supply system with solenoid valve and rotameter

Protection of heating elements against mechanical damage during loading and unloading as additional equipment



Light-weight refractory bricks and heating elements made from molybdenum disilicide