

Chamber Furnaces

PLF Series



PLF 110/30

PLF series have been used as trusted professional chamber furnaces for many years in laboratories. Available with brick and fiber insulation elements, with a wide variety of options, these models can be optimally used for your general procedures.

Standard PLF series furnaces cover a range from 1100°C to 1300°C, all of which have front loading for easy operation and double skin construction to maintain a cooler outer case.

Important advantage of the model is that element change is very easy and economic. Furnaces starting from 1400°C use Silicon Carbide heating elements, providing a very long service life.

The durability of the SiC rods in periodic use, in combination with their high heating speed, make these furnaces to all-rounders in the laboratory.

Typical applications for the product is melting, thermal ageing, ceramics sintering, metal heat treatment, chemical decomposition and thermal shock testing.

System Features

- ✓ Vertical counter balanced door
- ✓ Standard door safety switch
- ✓ High-quality fiber material
- ✓ High level temperature uniformity
- ✓ Bottom protection, alumina plates on the floor
- ✓ Short heating times
- ✓ Brick door skirts and the furnace openings
- ✓ Galvanized coating covered epoxy paint structure
- ✓ Customized controller option
- ✓ High quality heating elements ensuring a long service life
- ✓ System operation with solid-state-relays
- ✓ Electrical protection
- ✓ Working Temperatures of up to 1600 °C
- ✓ Dual skin housing for low external temperatures and high inner temperature stability
- ✓ Easy replacement of heating elements
- ✓ Intuitive controller user interface

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Volume (L)	Inside Measurements (cm)			Outside Measurements (cm)			Power (kW)	Phase
				H	W	D	H	W	D		
PLF 115M	1150	1100	6,5	11	21	28	65	55	58	2,7	1

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Volume (L)	Inside Measurements (cm)			Outside Measurements (cm)			Power (kW)	Phase
				H	W	D	H	W	D		
PLF 110/6	1100	1050	7	14	20	25	65	55	58	2000	1
PLF 110/10	1100	1050	10	20	20	25	72	56	64	3600	1
PLF 110/15	1100	1050	15	23	22	30	72	56	64	3600	1
PLF 110/30	1100	1050	30	28	28	38	79	59	69	6000	3
PLF 110/45	1100	1050	45	30	30	50	82	66	81	7500	3
PLF 110/60	1100	1050	60	30	40	50	80	76	84	9600	3

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Volume (L)	Inside Measurements (cm)			Outside Measurements (cm)			Power (kW)	Phase
				H	W	D	H	W	D		
PLF 120/6	1200	1150	7	14	20	25	65	55	58	2000	1
PLF 120/10	1200	1150	10	20	20	25	72	56	64	3600	1
PLF 120/15	1200	1150	15	23	22	30	72	56	64	3600	1
PLF 120/30	1200	1150	30	28	28	38	79	59	69	6000	3
PLF 120/45	1200	1150	45	30	30	50	82	66	81	7500	3
PLF 120/60	1200	1150	60	30	40	50	80	76	84	9600	3
PLF 130/6	1300	1250	7	14	20	25	65	55	58	2450	1
PLF 130/10	1300	1250	10	20	20	25	72	56	64	3600	1
PLF 130/15	1300	1250	15	23	22	30	72	56	64	3600	1
PLF 130/30	1300	1250	30	28	28	38	79	59	69	6000	3
PLF 130/45	1300	1250	45	30	30	50	82	66	81	7500	3
PLF 130/60	1300	1250	60	30	40	50	80	76	84	9600	3

*For system accessories please check the accessory page for furnaces.

Optional Features

- ✓ Over-temperature limiter for thermal protection
- ✓ Adjustable air intake opening in the furnace door
- ✓ Exhaust air opening in the of the furnace roof
- ✓ Option of sideways opening door
- ✓ Observation hole enabling the operator observe the load during the operation
- ✓ Data logger with the software
- ✓ RS422/485 communication
- ✓ Cooling Fan for faster cooling processes
- ✓ Jet Fan for faster exhaust of gases
- ✓ Movable bottom enabling the operator to remove the sample while the furnace is still hot
- ✓ Quartz element protection for heating elements
- ✓ Protective gas system and connection

*For your inquiries and questions please contact us

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