

# Chamber Furnaces

## PLF Series



**PLF 160/5**

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 1400°C to 1600°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 140/5	1400	1350	5.25	14	15	25	65	55	58	3.3	3
PLF 140/9	1400	1350	9.0	18	20	25	72	56	64	4.4	3
PLF 140/15	1400	1350	15.0	22	22	31	79	59	69	5.8	3
PLF 140/30	1400	1350	29.7	27	25	44	80	66	73	11.5	3
PLF 150/5	1500	1450	5.25	14	15	25	65	55	58	4.9	3
PLF 150/9	1500	1450	9.0	18	20	25	72	56	64	6.5	3
PLF 150/15	1500	1450	15.0	22	22	31	79	59	69	5.8	3
PLF 150/30	1500	1450	29.7	27	25	44	80	66	73	11.5	3
PLF 160/5	1600	1550	15.0	14	15	25	65	55	58	5.2	3
PLF 160/9	1600	1550	8.6	18	20	25	72	56	64	5.9	3
PLF 160/15	1600	1550	15.0	22	22	31	79	59	69	7.0	3
PLF 160/30	1600	1550	29.7	27	25	44	80	66	73	11.5	3

### 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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