

CHAMBER FURNACES

PLF Series

MoS Series

Ashing Series

Asphalt Series

Chamber Furnaces

PLF Series



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 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 (HxWxD) (cm)	Outside Measurements (HxWxD) (cm)	Power (kW)	Phase
PLF 110/6	1100	1050	6.3	15x21x20	65x55x58	2.0	1
PLF 110/8	1100	1050	7.5	18x21x20	65x55x58	2.0	1
PLF 110/10	1100	1050	10.0	20x20x25	72x56x64	2.7	1
PLF 110/15	1100	1050	15.0	23x22x30	72x56x64	3.6	1
PLF 110/30	1100	1050	28.0	28x28x38	79x55x69	3.6	1
PLF 110/45	1100	1050	45.0	30x30x50	82x66x81	6.0	3
PLF 115M	1150	1100	6.5	11x21x28	65x55x58	2.7	1
PLF 120/5	1200	1150	5.0	14x18x20	65x55x58	2.0	1
PLF 120/7	1200	1150	7.3	14x20x25	65x55x58	2.0	1
PLF 120/10	1200	1150	10.0	20x20x25	72x56x64	3.6	1
PLF 120/12	1200	1150	12.0	20x20x30	72x56x64	3.6	1
PLF 120/15	1200	1150	15.0	23x22x30	72x56x64	3.6	1
PLF 120/18	1200	1150	18.0	23x23x35	79x59x69	3.6	1
PLF 120/27	1200	1150	27.4	28x28x35	79x59x69	4.5	3
PLF 120/45	1200	1150	45.0	30x30x50	82x66x81	6.0	3

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Volume (Liters)	Inside Measurements (cm)	Outside Measurements (cm)	Power (kW)	Phase Number
PLF 130/6	1300	1250	6.3	14x20x25	65x55x58	2.5	1
PLF 130/9	1300	1250	9.0	18x20x25	72x56x64	3.6	1
PLF 130/12	1300	1250	12.0	20x20x30	72x56x64	3.6	1
PLF 130/15	1300	1250	15.0	23x23x30	79x59x69	3.6	1
PLF 130/18	1300	1250	18.0	23x23x35	79x59x69	3.6	1
PLF 130/25	1300	1250	24.6	27x27x35	79x59x69	6.0	3
PLF 130/45	1300	1250	45.0	30x30x50	82x66x81	6.0	3
PLF 140/5	1400	1350	5.3	14x15x25	65x55x58	3.3	3
PLF 140/9	1400	1350	9.0	18x20x25	72x56x64	4.4	3
PLF 140/15	1400	1350	15.0	22x22x31	79x59x69	5.8	3
PLF 140/33	1400	1350	32.5	27x25x48	80x66x73	11.5	3
PLF 150/5	1500	1450	5.3	14x15x25	65x55x58	4.9	3
PLF 150/7	1500	1450	7.0	14x20x25	65x55x58	4.9	3
PLF 150/9	1500	1450	9.0	18x20x25	72x56x64	6.5	3
PLF 150/15	1500	1450	15.0	22x22x31	79x59x69	5.8	3
PLF 150/24	1500	1450	24.3	27x25x36	79x59x69	11.5	3
PLF 150/30	1500	1450	28.3	27x25x42	80x66x73	11.5	3
PLF 160/5	1600	1550	5.4	15x15x24	65x55x58	5.2	3
PLF 160/7	1600	1550	6.9	17x17x24	72x56x64	5.7	3
PLF 160/9	1600	1550	8.6	18x21x24	72x56x64	5.9	3
PLF 160/15	1600	1550	15.0	22x22x31	79x59x69	7.0	3
PLF 160/25	1600	1550	23.4	26x25x38	79x59x69	11.5	3
PLF 160/30	1600	1550	28.3	26x25x42	80x66x73	11.5	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

Chamber Furnaces

MoS Series

MOS 170/4



MoS 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 high temperature procedures.

Standard MoS series furnaces cover a range from 1600°C to 1800°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 1800°C use high quality Molybdenum Disilicide heating elements, providing a very long service life.

Galvanized coating covered epoxy painted structure, providing longer life time and aesthetics.

Typical applications for the product is almost all high temperature applications where high level of precision is required; high temperature sintering processes such as Ceramic, Dental and Material Research.

System Features

- ✓ Vertical counter balanced door
- ✓ Standard door safety switch
- ✓ Customized controller option
- ✓ High-quality fiber material
- ✓ High level temperature uniformity
- ✓ Bottom protection, alumina plates on the floor
- ✓ Standard brick design on the outer skirts of the door and the furnace opening providing protection from possible unwanted damages during loading and unloading.
- ✓ Table top and Self-Standing design
- ✓ High quality heating elements ensuring a long service life
- ✓ System operation with solid-state-relays
- ✓ Short heating times
- ✓ Electrical protection
- ✓ Working Temperatures of up to 1800 °C
- ✓ Dual skin housing for low external temperatures and high inner temperature stability
- ✓ Easy replacement of heating elements
- ✓ Intuitive controller user interface

MoS Series, Table Top Model Information

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Inner Dimensions HxWxD (cm)	Inner Volume (liters)	External Dimensions HxWxD (cm)	Approximate Power (kW)	Phase	Supply Voltage (V)
MoS-B 150/1	1550	1500	12x12x9	1.3	71x51x47	1.5	1	220
MoS-B 150/2	1550	1500	14x12x15	2.5	77x51x51	3.3	1	220
MoS-B 160/1	1600	1550	12x12x9	1.3	71x51x47	1.5	1	220
MoS-B 160/2	1600	1550	14x12x15	2.5	77x51x51	3.3	1	220
MoS-B 160/4	1600	1550	14x14x20	3.9	66x82x52	4.4	1	400
MoS-B 160/8	1600	1550	18x18x25	8.1	70x92x52	7.2	3	400
MoS-B 170/2	1700	1650	14x12x15	2.5	77x51x51	3.3	1	220
MoS-B 170/4	1700	1650	14x14x20	3.9	66x82x52	4.4	1	400
MoS-B 170/8	1700	1650	18x18x25	8.1	70x92x52	7.2	3	400
MoS-B 180/2	1800	1750	14x12x15	2.5	77x51x51	3.3	1	220
MoS-B 180/4	1800	1750	14x14x20	3.9	66x82x52	4.4	1	400
MoS-B 180/8	1800	1750	18x18x25	8.1	70x92x52	7.2	3	400

MoS Series, Self-standing System Information

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Inner Dimensions HxWxD (cm)	Inner Volume (liters)	External Dimensions HxWxD (cm)	Approximate Power (kW)	Phase	Supply Voltage (V)
MoS-F 160/8	1600	1550	18x18x25	8.1	145x58x61	7.2	3	400
MoS-F 160/12	1600	1550	24x20x25	12.0	145x62x61	9.0	3	400
MoS-F 160/16	1600	1550	24x22x30	15.8	145x62x61	11.3	3	400
MoS-F 170/8	1700	1650	18x18x25	8.1	70x92x52	7.2	3	400
MoS-F 170/12	1700	1650	24x20x25	12.0	145x62x61	9.0	3	400
MoS-F 170/16	1700	1650	24x22x30	15.8	145x62x61	11.3	3	400
MoS-F 180/8	1800	1750	18x18x25	8.1	70x92x52	7.2	3	400
MoS-F 180/12	1800	1750	24x20x25	12.0	145x62x61	9.0	3	400
MoS-F 180/16	1800	1750	24x22x30	15.8	145x62x61	11.3	3	400

*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

Ashing Furnaces

PAF Series



PAF series is recommended for heavy ashing applications, where carbon can deposit during the "firing process" from products such as oil, food and plastic.

PAF series, with preheated air inlet system and sideways opening lid is particularly designed for ashing in the laboratory environment.

A special air intake and exhaust system allows air exchange within the furnace. Incoming air is preheated, providing perfect temperature uniformity.

PAF series is equipped with extra quartz protected heating elements, providing a longer service life for the furnace.

Custom designed vertical rotational door keeps the heat and the fumes away from the operator, enabling the furnace to fit in to tighter spaces.

Standard brick design on the outer skirts of the door and the furnace opening provide protection from possible unwanted damages during loading.

System Features

- ✓ Standard special design door
- ✓ Standard door safety switch
- ✓ Customized controller option
- ✓ High-quality fiber material
- ✓ High level temperature uniformity
- ✓ Bottom protection, alumina plates on the floor
- ✓ Rugged and durable design
- ✓ High quality heating elements
- ✓ Electrical protection
- ✓ Dual skin housing for low external temperatures and high stability
- ✓ Intuitive controller user interface
- ✓ System operation with solid-state-relays

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Volume (Liters)	Inside Measurements (HxWxD) (cm)	Outside Measurements (HxWxD) (cm)	Power (kW)	Weight (kg)	Phase
PAF 110/6	1100	1050	6.3	15x21x20	65x55x58	2.0	56	1
PAF 110/8	1100	1050	7.5	18x21x20	65x55x58	2.0	56	1
PAF 110/10	1100	1050	10.0	20x20x25	72x56x64	2.7	64	1
PAF 120/5	1200	1150	5.0	14x18x20	65x55x58	2.0	56	1
PAF 120/7	1200	1150	7.3	14x20x25	65x55x58	2.0	59	1
PAF 120/10	1200	1150	10.0	20x20x25	72x56x64	3.6	67	1
PAF 120/12	1200	1150	12.0	20x20x30	72x56x64	3.6	70	1

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

Optional Features

- ✓ Over-temperature limiter for thermal protection
- ✓ Lift door

Asphalt Furnaces Chamber Series



PASF 110/30

Asphalt furnaces are specially designed for quantitative determination of Binder Content in hot-mix asphalt.

Furnace is capable of 600°C. Any emissions during tests are eliminated with the usage of a special thermal after burner placed on top of the furnace. The reverse suction system enhances removal of flammable fumes during operation.

Furnace is under control of the software, including the operation and heat up of the after burner and lock up of furnace lid at 150°C.

All elements are protected against corrosion by quartz tubing providing a longer service life.

Standard brick design on the outer skirts of the door and the furnace opening provide protection from possible unwanted damages during loading.

Galvanized coating covered epoxy painted structure, providing longer life time and aesthetics.

System Features

- ✓ Special locking sideways opening door
- ✓ Weight loss recording system
- ✓ Customized controller option
- ✓ High-quality fiber material
- ✓ High level temperature uniformity
- ✓ Bottom protection
- ✓ Temperature and weight data observation
- ✓ Data logger and export tool
- ✓ Short heating times
- ✓ Electrical protection
- ✓ Working Temperatures of up to 600 °C
- ✓ Dual skin housing for low external temperatures and high temperature stability
- ✓ System operation with solid-state-relays
- ✓ High quality heating elements ensuring free heat radiation and a long service life
- ✓ Easy replacement of heating elements
- ✓ Intuitive controller user interface

Model	Operating Temperature (°C)	Inner Dimentions (HxWxD) (cm)	Outer Dimensions (HxWxD) (cm)	Power (kW)	Weight Capacity (Grams)	Phase	Supply Voltage (V)
PASF 110/30	540	30x30x30	115x60x60	3.6	5000	1	220

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

Optional Features

- ✓ Over-temperature limiter for thermal protection

*For your inquiries and questions please contact us

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