

# DENTAL FURNACES

Dental PLF Series

Dental MoS Series

Zircon Firing Dental Series

# Chamber Furnaces

## Dental PLF Series



**PLF 110/6**

Dental PLF series have been used as trusted professional chamber furnaces for many years in dental 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 Dental PLF series furnaces cover a range of temperatures up to 1100°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.

The durability of the heating elements in periodic use, make these furnaces to all-rounders in the laboratory.

Typical uses for the product covers a range of dental laboratory applications.

### 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 1100 °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

\*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 on the furnace roof
- ✓ 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
- ✓ Quartz element protection for heating elements
- ✓ Protective gas system and connection

# Chamber Furnaces

## Dental MoS Series

MOS 160/1



Dental MoS series have been used as trusted professional chamber furnaces for many years in dental 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 Dental MoS series furnaces cover a range of temperatures up 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 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 1600 °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

\*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 on the furnace roof
- ✓ 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
- ✓ Quartz element protection for heating elements
- ✓ Protective gas system and connection

## Dental Furnaces Zircon Firing ELV MOS Series



ELV MOS 160/05

ELV MOS series is designed for bottom loading operations and for quick charging and discharging procedures in laboratories.

Available with brick and fiber insulation elements, with a wide variety of options, ELV MOS series is designed especially for dental applications.

Standard ELV MOS series furnaces cover a range of temperatures up to 1600°C, all of which have dual skin housing for low external temperatures and high inner temperature stability uniformity.

Multi-layers of sample could be fitted into the furnace, enabling the sintering of multiple zirconia loads.

Gas feed-in with this series is a standard and various applications of gas controlled atmospheres is made possible.

Seven inch touch screen with instructions in requested language enables user friendly programming and configuration of the furnace.

Dental series is equipped with a galvanized coating covered epoxy painted structure, providing longer life time and aesthetics.

### System Features

- ✓ Touchscreen controller
- ✓ High-quality fiber material
- ✓ Exceptional temperature uniformity
- ✓ Table top design
- ✓ Fast firing availability
- ✓ High quality heating elements ensuring a long service life
- ✓ Short heating times
- ✓ High level temperature uniformity
- ✓ Electrical protection
- ✓ System operation with solid-state-relays
- ✓ Working Temperatures of up to 1800 °C
- ✓ Dedicated programs for applications
- ✓ Multi tray optionality
- ✓ "Run-on mode" enabling the furnace to continue automatically without user interaction after a power cut-off

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Inner Volume (liters)	Inner Volume (Dø x height) (mm)	Voltage (V)	Phase
ELV MoS 160/05	1600	1550	0.5	9 x 55	220	1
ELV MoS 160/1	1600	1550	1.0	10 x 100	220	1

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

### Optional Features

- ✓ Over-temperature limiter for thermal protection
- ✓ Exhaust air opening in the of the furnace roof
- ✓ Data logger with the software
- ✓ RS422/485 communication
- ✓ Protective Gas System and Connection

\*For your inquiries and questions please contact us

Web: [www.prothermfurnaces.com](http://www.prothermfurnaces.com)

Email: [info@prothermfurnaces.com](mailto:info@prothermfurnaces.com)

Phone: +90 312 257 1331