

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)	Volume (liters)	Inside Measurements (cm)			Outside Measurements (cm)			Approximate Power (kW)	Phase	Supply Voltage (V)	T/C Type
				H	W	D	H	W	D				
MoS-B 150/1	1550	1500	1.3	12	12	9	71	51	47	1.5	1	220	S
MoS-B 150/2	1550	1500	2.5	14	12	15	77	51	51	3.3	1	220	S
MoS-B 160/1	1600	1550	1.3	12	12	9	71	51	47	1.5	1	220	S
MoS-B 160/2	1600	1550	2.5	14	12	15	77	51	51	3.3	1	220	S
MoS-B 160/4	1600	1550	3.9	14	14	20	66	82	52	4.4	1	400	S
MoS-B 160/8	1600	1550	8.1	18	18	25	70	92	52	7.2	3	400	S
MoS-B 170/2	1700	1650	2.5	14	12	15	77	51	51	3.3	1	220	B
MoS-B 170/4	1700	1650	3.9	14	14	20	66	82	52	4.4	1	400	B
MoS-B 170/8	1700	1650	8.1	18	18	25	70	92	52	7.2	3	400	B
MoS-B 180/2	1800	1750	2.5	14	12	15	77	51	51	3.3	1	220	B
MoS-B 180/4	1800	1750	3.9	14	14	20	66	82	52	4.4	1	400	B
MoS-B 180/8	1800	1750	8.1	18	18	25	70	92	52	7.2	3	400	B

MoS Series, Self-standing System Information

Model	Maximum Temperature (°C)	Continuous Operating Temperature (°C)	Inner Dimensions HxWxD (cm)	Inside Measurements (cm)			Outside Measurements (cm)			Approximate Power (kW)	Phase	Supply Voltage (V)	T/C Type
				H	W	D	H	W	D				
MoS-F 160/8	1600	1550	8.1	18	18	25	145	58	61	7.2	3	400	S
MoS-F 160/12	1600	1550	12.0	24	20	25	145	62	61	9.0	3	400	B
MoS-F 160/16	1600	1550	15.8	24	22	30	145	62	61	11.3	3	400	B
MoS-F 170/8	1700	1650	8.1	18	18	25	70	92	52	7.2	3	400	B
MoS-F 170/12	1700	1650	12.0	24	20	25	145	62	61	9.0	3	400	B
MoS-F 170/16	1700	1650	15.8	24	22	30	145	62	61	11.3	3	400	B
MoS-F 180/8	1800	1750	8.1	18	18	25	70	92	52	7.2	3	400	B
MoS-F 180/12	1800	1750	12.0	24	20	25	145	62	61	9.0	3	400	B
MoS-F 180/16	1800	1750	15.8	24	22	30	145	62	61	11.3	3	400	B

*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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