

LABORATORY SCALE FURNACES

LIFT-BOTTOM / GLASS MELTING FURNACE

MSE's lift bottom furnaces are ideal for dental ceramic firing and glass melting applications up to 1800°C. The lift bottom design raise sample to inside the furnace without lid. The product is raised to the furnace with the base of the elevator mechanism without lid on the front surface. Homogeneous temperature distribution is provided by heating elements placed in the cubic furnace chamber. The biggest advantage of the elevator furnaces is the easy placement of the sample with the up-down moving base, the easily refractory changes without any technical service for damage to the base refractory such as glass shedding or product melting, better protection of the heating elements and less exposure of the user to high temperature compared to the lid models.

Advantages;

- ✓ If the base refractory is damaged in the melting process, it is possible to replace it without technical services
- ✓ Easy placement of samples to bottom
- ✓ Better protection of the heating elements compared to the front lid-models stable heat treatment for sensitive samples
- ✓ Very homogeneous heating via environmental location of resistances
- ✓ To be able to observe the sample at desired temperature with lift bottom

- Tmax. 1800°C ,
- Programmable step controller via digital display
- Temperature control via PID and $\pm 1^{\circ}\text{C}$ temperature display sensitivity
- Observation of set and real temperature
- Temperature measurement via thermocouple
- Delayed start and program save feature
- System protection for over temperature, audio visual warning alarm
- Error display in case a breakdown
- Heating on each sides
- Bottom design with elevator
- Exhaust gas outlet connected to inner volume
- High-quality fiber and brick insulated heat zone
- Low external surface temperature (Ambient + 40°C) thanks to double-layers steel construction
- Epoxy painted galvanized-steel exterior
- Able to resume the program after the power failure
- Height adjustable, non-slip rubber feet



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LIFT-BOTTOM / GLASS MELTING FURNACE SERIES

Lift- bottom furnace series produced using brick and fiber insulation elements area suitable choice for melting, sintering and ceramic heat treatment.

Product Code	Max. Temperature °C	Internal Dimensions			
		Volume (L)	Width (mm)	Height (mm)	Depth (mm)
ELV_1300_4	1300	4	165	150	165
ELV_1300_5	1300	5	170	175	170
ELV_1300_8	1300	8	200	200	200
ELV_1300_12	1300	12	200	300	200
ELV_1300_18	1300	18	250	250	300
ELV_1300_25	1300	25	250	250	400
ELV_1300_36	1300	36	300	300	400
ELV_1300_*	1300	*	*	*	*

*Produced on demand by the customer.

Product Code	Max. Temperature °C	Internal Dimensions			
		Volume (L)	Width (mm)	Height (mm)	Depth (mm)
ELV_1500_4	1500	4	165	150	165
ELV_1500_5	1500	5	170	175	170
ELV_1500_8	1500	8	200	200	200
ELV_1500_12	1500	12	200	300	200
ELV_1500_18	1500	18	250	250	300
ELV_1500_25	1500	25	250	250	400
ELV_1500_36	1500	36	300	300	400
ELV_1500_*	1500	*	*	*	*

*Produced on demand by the customer.

Product Code	Max. Temperature °C	Internal Dimensions			
		Volume (L)	Width (mm)	Height (mm)	Depth (mm)
ELV_1600_1	1600	1	100	100	100
ELV_1600_4	1600	4	165	150	165
ELV_1600_5	1600	5	170	175	170
ELV_1600_8	1600	8	200	200	200
ELV_1600_12	1600	12	200	300	200
ELV_1600_18	1600	18	250	250	300
ELV_1600_25	1600	25	250	250	400
ELV_1600_36	1600	36	300	300	400
ELV_1600_*	1600	*	*	*	*

*Produced on demand by the customer.

Product Code	Max. Temperature °C	Internal Dimensions			
		Volume (L)	Width (mm)	Height (mm)	Depth (mm)
ELV_1800_1	1800	1	100	100	100
ELV_1800_5	1800	5	170	170	175
ELV_1800_8	1800	8	200	200	200
ELV_1800_12	1800	12	200	200	300
ELV_1800_*	1800	*	*	*	*

*Produced on demand by the customer.

