

LABORATORY SCALE FURNACES

ATMOSPHERE CONTROLLED LIFT-BOTTOM FURNACE

One of the most common applications of laboratory furnaces is to heat combustible samples in order to analyze the ash residue. MSE FURNACE's ash furnaces are designed to provide optimum ash conditions to ensure complete combustion of the sample. Ash furnaces used to remove some components from the sample by combustion reaction under atmospheric conditions are designed to feed oxygen in sufficient quantities that the reaction requires as required by the system. It can be used safely in the ash experiments with the design suitable for carbon accumulation that can occur during the burning of organic, polymer and other petroleum based materials. It is ideal for ash foods, plastics, coals and other hydrocarbon materials. The double layer construction keeps the exterior body cool at high temperatures and provides excellent stability. Bottom air-flown design provides an excellent air circulation required during the process. The digital PID Control maintains temperature settings accurately. For the Hydrogen atmosphere please contact us.

- Tmax: 2800 °C
- Programmable step controller via digital display
- Auto power cut when lid is open
- 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
- Reinforced vacuum stainless and water cooled cabinet
- Programme temperature sensitivity $\pm 1^\circ\text{C}$
- Sideways lid opening
- Entegreted 10^{-2} mbar vacuum pump
- Heating on all sides
- Automatic energy cut while lift bottom opening and do not able to work unless lid is closed
- Sample loading via lift bottom to the heat zone
- Adjustable gas flowmeter

Temperature: 2800 °C
Volume: 5 litres



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ATMOSPHERE CONTROLLED LIFT-BOTTOM FURNACE SERIES

Atmosphere controlled lift-bottom furnaces are available in wide a ranges of volume and temperatures up to 2800°C continuous use. Argon, nitrogen, partial hydrogen and so on are designed for heat treatment in atmospheric conditions. The standard models of atmosphere controlled chamber furnaces are listed below. Please contact us for detailed information.

Product Code	Max. Temperature °C	Volume (L)	Internal Dimensions		
			Width (mm)	Height (mm)	Depth (mm)
ATM_ELV_1100_4	1100	4	150	165	165
ATM_ELV_1100_5	1100	5	170	170	175
ATM_ELV_1100_8	1100	8	200	200	200
ATM_ELV_1100_12	1100	12	200	200	300
ATM_ELV_1100_15	1100	12	200	250	300
ATM_ELV_1100_45	1100	45	360	310	410
ATM_ELV_1100_*	1100	*	*	*	*

*Produced on demand by the customer.

Product Code	Max. Temperature °C	Volume (L)	Internal Dimensions		
			Width (mm)	Height (mm)	Depth (mm)
ATM_ELV_1600_4	1600	4	140	175	165
ATM_ELV_1600_5	1600	5	170	175	170
ATM_ELV_1600_8	1600	8	180	190	245
ATM_ELV_1600_12	1600	12	200	200	300
ATM_ELV_1600_*	1600	*	*	*	*

*Produced on demand by the customer.

Product Code	Max. Temperature °C	Volume (L)	Internal Dimensions		
			Width (mm)	Height (mm)	Depth (mm)
ATM_ELV_1700_4	1700	4	150	165	165
ATM_ELV_1700_5	1700	5	170	170	175
ATM_ELV_1700_8	1700	8	180	190	245
ATM_ELV_1700_12	1700	12	200	200	300
ATM_ELV_1700_*	1700	*	*	*	*

*Produced on demand by the customer.

Product Code	Max. Temperature °C	Volume (L)	Internal Dimensions		
			Width (mm)	Height (mm)	Depth (mm)
ATM_ELV_2200_5	2200	5	170	170	175
ATM_ELV_2200_8	2200	8	180	190	245
ATM_ELV_2200_12	2200	12	200	200	300
ATM_ELV_2200_*	2200	*	*	*	*

*Produced on demand by the customer.

