Description:
e.g. LMV 02/12 – laboratory muffle vertical volume in litres/shortened max. temperature

Application
Vertical charging (samples for testing) into a ceramic muffle. This muffle prevents possible aggressive products of combustion, being formed during the heating treatment, from affecting the heating elements.

Benefits
Stainless finish, attractive design, ventilation preventing vapours from condensing at firing (rust reduction) and considerable reduction of shell temperature; excellent temperature distribution, top insulating materials (low energy consumption, possibility of fast rise time to the required temperature), independent limit unit protecting the furnace from damage, high-accuracy programmable temperature regulation, solid-state relays (easier and noiseless running, minimal disturbance of surrounding equipments), perfect manufacturing, technical equipment and safety of operation.

Professional photography



Product URL
https://www.lac.cz/en/furnaces-and-dryers/lmv-vertical-muffle-furnace

Only for internal purposes of LAC company and their business partners

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Topolová 933, 667 01 Židlochovice
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Furnace construction

All the types have a frameless construction. The mantle is made of bent stainless metal plate. The muffle is ceramic. The loading inlet of the furnace is covered with the stainless lid of a circular section strewn with insulation of mineral grain. The lid is fitted with a handlel. All models are designed as desktop types – the furnace is furnished with adjustable legs.
The electric equipment of the furnace is set in the area below the muffle.

Furnace insulation

The muffle is insulated with mattresses and the panel of mineral fibre. The upper surface is overlapped with the plate of mineral fibre. The lid is filled with a mattress of mineral fibre.

Heating

For all the volumes the furnaces are designed for 1200 °C. The heating is provided by a heating spiral, wound on the muffle.

Electrical construction

All the electrical elements are placed in the space below the muffle. The circuit breaker is placed on the back side of the furnace. All types are equipped with a power flex of 3 m.

Measurement and regulation

The temperature inside the furnace is scanned by thermocouple type S (PtRh-Pt). For regulation and control of the furnace the controller Ht40AL is used and it is placed together with the main switch at the front panel of the furnace. The furnaces are fitted by contact less semiconductor SSR switch relays.

Warranty:

- 24 months

Standard equipment of the furnace covers:

- Ht40AL controller
- The lid is fulfilled by the sedge of mineral fibre, manually opened lid
- Muffle insulated with the matting of the mineral grain
- Heating spiral on the muffle
- Supply cable fitted with single-phase plug
- Circuit breaker on the back side of the furnace
- All electro elements placed in the area below the muffle
- Thermocouple Type “S”

Optional accessories:

- Ht205 controller
- Protection atmosphere inlet
- Calibration of the controller measuring entry
- EIA-485 interface
- LAN interface (only with Ht205 controller)
- Set HtMonit EV (includes interface + software)

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Order No.		Type LAC	Tmax *	Volume	Outside dimensions (w x h x d)	Chamber dimensions (Ød x h)**	Power input	Weight	Protection	Voltage
Ht40 AL	Ht205		°C	l	mm	mm	kW	kg	A	V
01096268	01096223	LMV 02/12	1200	2	300x470x300	105x160	1,8	30	16/1	230
01107755	01096224	LMV 05/12	1200	5	350x550x350	165x230	2,0	40	16/1	230

**Tmax is the maximum temperature which can be attained by the furnace, but is not suitable for long-term operation.*
***The inner diameter of the muffle is within a tolerance of 105 +/- 5 mm for the LMV 02/12 furnace and 165 +/- 5 mm for the LMV 05/12 furnace.*

Type LAC	Max. bottom load capacity (kg)
LMV 02/12	5
LMV 05/12	5

Index of change	Change/ Revision by	Change/Revision description and number of changed chapters/lists	Signature date	Change authorized by, Date, Signature
2	Boková	Power decreased.	05.04.2007	Kurečka
3	Furchová	Warranty changed for 12 months, a photo added, Optional accessories changed for Accessories for extra charge.	16.02.2009	Žilka
4	Horáková	Warranty changed for 24 months.	13.04.2012	Diblík
5	Merta	Introduction of tolerance for inner diameter of muffle, change of power input LMV 05/12.	01.05.2022	Anderle
6	Merta	Change of stock numbers of furnaces in connection with redraw of documentation in Inventor. Changing the controller type.	01.05.2024	Čuma

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