Description: e.g. LH 06/13 – laboratory horizontal volume in litres/shortened max. temperature

Application

Flexible application in laboratories, for the testing of different materials by heat processing where the charge is not releasing any aggressive elements which can attack the coils or the brick lining.

Benefits

Stainless mantle ensures long lifetime of the furnace. The heating spirals are placed in the grooves of the brick lining. The cooling ventilator, placed at the back part, provides the continuous cooling of the mantle of the furnace. The programmable regulators provide easy and precise regulation of the required temperature cycle.

Professional photography:



Furnace construction

All types have a frameless construction. The mantle is made of stainless bent plate. A frame with the insulation is inserted into the mantle and it is connected with the furnace mask. The electrical set is placed in the space behind the furnace chamber; the space is ventilated by the ventilator which is set into the back furnace shield. The chamber is equipped with an exhaust chimney made of a ceramic tube which is, outside the chambre, protected by a stainless tube. All models are designed as desktop types – they are equipped with adjustable legs.
The controller is placed under the chamber; the display is on the furnace mask.
All models are designed and constructed to be placed on a table.

Only for internal purposes of LAC company and their business partners

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Production plant Furnaces and Dryers
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Door

The door is made of bent steel plate and opens upwards parallelly. The adherence pressure is produced by a draw spring. A protective clear Robax glass is in the door sight glass. The door is for LH 06/13 and LH 09/13 models equipped with one handle, other models are equipped with two handles.

Furnace isolation

The chamber is isolated by a K25 nf1-76 insulating bricks lining, the bricks have horizontal grooves for heating coils setting. A mineral fibre mattress and a calcium-silicate board provide the next isolating layer.

Door isolation

The door is filled with 80 mm thick board made of mineral fibre which is fixed by a pressure frame.

Heating

The furnaces are designed for 1340 °C temperatures for all volumes. The heating is provided by heating coils that are inserted into lining grooves and fixed by steel rivets.

Electrical construction

All electrical elements are placed in the space behind the chamber. The circuit breaker and the fuse are placed on the back wall of the furnace. The controller is placed on the front panel under the door.
The door is equipped with a safety terminal switch. The heating turns off when the door is opened.
The ventilator for inner furnace space cooling is not operated by the controller.
All types are equipped with 3 m long power flex.

Measuring and regulation

The inside furnace temperature is scanned by thermocouple “S” type (PtRh-Pt). The HT 40AL controller is used for furnace regulation and control. Furnaces are fitted with contact less semiconductor switching SSR relays. The furnace have no limit unit.

Warranty: 24 months

Standard equipment of the furnace covers:

- Ht40AL controller
- manually operated door opening upwards with an end switch
- heating coils inserted in the lining grooves
- airing chimney on the back part of the furnace
- chamber composed of lightweight bricks
- supply cable fitted with single-phase plug
- thermocouple Type “S”
- solid state relay

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Optional accessories:

- HtIndustry / Ht205 controller
- Ejector with an exhaust fan and draft diverter
- Protection atmosphere inlet
- Calibration of the controller measuring entry Iinterface RS232 or RS485
- Set HtMonit (includes interface + software)

Order No.		Type LAC	*t max**	Inside volume	External dimensions (wxhxd)	Internal dimensions (wxhxd)	Input	Weight	Furnace protection	Voltage
Ht40AL	**HtIndustry**		**°C**	**l**	**mm**	**mm**	**kW**	**kg**		**V**
610093	610094	LH 06/13	1340	6	600x590x715	200x150x230	1,5	72	16/1	230
610099	610100	LH 09/13	1340	9	600x590x715	230x170x230	2,0	73	16/1	230
610103	610104	LH 15/13	1340	15	620x670x715	250x250x250	2,4	82	16/1	230
610107	610108	LH 30/13	1340	30	680x770x800	310x310x310	3,2	105	16/1	230

** Tmax is the maximum temperature which can be attained by the furnace, but is not suitable for long-term operation.*

Type LAC	Max. bottom laud capacity (kg)
LH 06	10
LH 09	10
LH 15	15
LH 30	25

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Index of change	Change/ Revision by	Change/Revision description and number of changed chapters/lists	Signature date	Change authorized by, Date, Signature
2	Furchová	In the paragraph of Measuring and regulation and Standard furnace equipment – HT 40A controller changed for HT 40AL. (page 2)	22. 9. 2008	Žilka
3	Furchová	Warranty changed for 12 months, a photo added	16. 2. 2009	Žilka
4	Horáková	Warranty changed for 24 months	13.4.2012	Diblík

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