**Description:** LT 75/750/13 – laboratory tube furnace/tube bore/heating zone length/max. temperature

**Application**
Special laboratory and research works.

**Benefits:**
Fully stainless steel structure, top insulation materials (low electricity consumption), possibility of quick build-up to required temperature), programmable temperature regulation, semi-conductor relay (more fluent and noiseless operation, minimum interference with surrounding devices), perfect workshop design, technical equipment and operation safety.

**PROFI FOTO LT 75/750/13**




**Construction of furnace**
The furnace is of frameless design. Balk-shaped stainless steel jacket is made of bent shaped sheet. The furnace is intended for placing on table either horizontally on legs, where one leg is height-adjustable, or vertically on a special stand, which can be supplied as accessories to the furnace. The furnace consists of two parts, where the lower part serves as a basement and the upper part – lid is tilted up manually by a handle. The lid is tilted off on hinges fixed to the lower part of the furnace and closes by two clamps attaching it to the lower part.

**Furnace insulation**
Mineral plates forming circular modules are used for insulation. **Grooves for placing of heating spirals** are made in the insulation. The tube is freely inserted into cylinder opening in the middle of the insulation modules.

**Heating**

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**Production plant Furnaces and Dryers**
Topolová 933, 667 01 Židlochovice
**Production plant Refractory Castable Shapes**
Drnholecká 522, 671 67 Hrušovany nad Jevišovkou

The furnace is designed for temperatures up to 1300 °C. The heating is provided for by heating spirals inserted into grooves in the insulation.

**Electric design**
All other electric wiring elements are placed in a separate switchboard connected with the furnace via cable.

**Measurement and control**
The furnace is fitted with contactless semi-conductor switch relays SSR and HT40 controller as a standard. ”S“-type thermocouple is placed radially between the insulation and tube.

**Warranty**
- 24 months

**Standard equipment of the furnace covers:**
- Ht40AL controller
- Frameless construction made of a stainless steel shell of bent sheet metal
- Desktop design
- Upper part of the furnace is manually tilted up by a handle
- Heating spirals are located in the insulation grooves
- Insulation from the mineral fibre insulation boards
- Electric wiring elements are placed in a separate switchboard
- Thermocouple Type “S”

**Optional accessories:**
- HtIndustry / Ht205 controller
- Protection atmosphere inlet
- Stand for vertical positioning of the furnace
- Tube packer of mineral fibre
- 3 three-zone heating system for models with tube length 750 mm
- Calibration of the controller measuring entry
- Interface RS232 or RS485
- Set HtMonit (includes interface + software)

| *Order* | LAC type | *t max* | Internal | External | Heating | Tube | Power | Weight | Voltage |
|---|---|---|---|---|---|---|---|---|---|

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| *No.* | | | Ø of tube | dimensions (wxhxd) | zone length | length | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | °C | mm | mm | mm | mm | kW | kg | V |
| | | | | | | | | | |
| 610825 | LT 50/300/13 | 1300 | 50 | 570x310x510 | 300 | 660 | 3,2 | 75 | 230 |
| 610826 | LT 50/500/13 | 1300 | 50 | 810x310x510 | 500 | 900 | 5 | 85 | 400 |
| 610827 | LT 50/750/13 | 1300 | 50 | 1100x310x510 | 750 | 1220 | 8 | 95 | 400 |
| 610828 | LT 75/500/13 | 1300 | 75 | 810x400x600 | 500 | 900 | 6,5 | 85 | 400 |
| 610829 | LT 75/750/13 | 1300 | 75 | 1100x400x600 | 750 | 1220 | 10 | 95 | 400 |
| 610830 | LT 100/500/13 | 1300 | 100 | 810x450x650 | 500 | 900 | 7 | 85 | 400 |
| 610831 | LT 100/750/13 | 1300 | 100 | 1100x450x650 | 750 | 1220 | 11,5 | 95 | 400 |

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

**CAUTION:**

- For 3-phase models heating between 2 phases only
- External furnace dimensions are without the tube, for vertical operation they will be submitted on request

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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 | Warranty changed for 12 months, photo added | 16. 2. 2009 | Žilka |
| 3 | Horáková | Dimension change in the table – pipe lenght | 13.11.2009 | Anderle |
| 4 | Horáková | Warranty changed for 24 months | 13.4.2012 | Diblík |

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