TENTO PROJEKT JE SPOLUFINANCOVÁN EVROPSKÝM FONDEM PRO REGIONÁLNÍ ROZVOJ A MINISTERSTVEM PRŮMYSLU A OBCHODU

HOBBY

catalogue

LAC

M TOPLOADERS

APPLICATION

For ceramics hobby groups, individual interested persons and professional ceramists for firing of ceramics, stoneware, glass and china ornaments, glassfusing, firing and glaze tests.

STANDARD DESIGN

- CERAMIC controller
- Cover plug for ventilation hole
- Jacket made of planished stainless steel sheet
- Stable lid suspension
- Even heat distribution in the furnace according to DIN 17052-1 (Class A)
- 230 V models are equipped with supply cables with single-phase plugs, other with 3-phase CEE plugs.
- Semiconductor non-contact switch relay (smooth and noiseless operation, minimum interference with surrounding devices)

M 200

Type	T max °C	Capacity l	Ext. dimensions mm (∅* xh)	Int. dimensions mm (∅ xh)	Power kW	Weight kg	Temperature controller	Protection A	Voltage V
M 30/12	1280	30	556x581	350x345	3,5	38	Ceramic	16/1	230
M 45/12	1280	45	601x581	410x345	3,5	55	Ceramic	16/1	230
M60/12	1280	60	601x695	410x455	5,5	65	Ceramic	16/3	400
M 100/12	1280	100	743x665	525x455	7,5	80	Ceramic	16/3	400
M 125/12	1280	125	815x665	620x455	8,5	98	Ceramic	16/3	400
M 200/12	1280	200	817x897	620x685	11	120	Ceramic	20/3	400

* *without temperature controller.*

Technical changes reserved

HK POTTER'S WHEEL

Type	Ext. dimensions mm (wxhxd)	Revolutions/min.	Weight kg	Power W	Voltage V
HK 230V	680x820x1050	230	95	550	230
HK 400V	680x820x1050	230	95	550	400

Technical changes reserved

APPLICATION

Particularly for manufacture of twisted ceramics, e.g. vases, plates, bowls, cups and other products.

HK 230 V

STANDARD DESIGN

- Bottom plate of antiskid ribbed sheet of structural steel
- Upholstery seat, horizontally and vertically adjustable
- Working surface of the wheel consists of plastic moulding with a tub and hob
- Twisting wheel of diameter 250 mm
- Rotation direction switch
- 2 pedals - starting and breaking

ACCESSORIES FOR EXTRA CHARGE

- Wheel 300 mm
- Gauge
- Wheeling arm

K 120

K CHAMBER FURNANC

Type	T max °C	Capacity l	External dimensions mm (wxhxd)	Internal dimensions mm (wxhxd)	Power kW
K 50/12	1200	50	910x1440x1070	350x350x400	3,5
K 70/12	1200	80	920x1440x1090	350x450x450	6,5
K 120/12	1280	120	1020x1520x1140	450x530x500	9
K 150/12	1280	150	1010x1575x1165	450x600x520	10,5
K 200/12	1280	200	1060x1775x1165	500x750x520	15
K 250/12	1280	275	1080x1800x1230	520x800x550	17
K 300/12	1280	350	1210x1775x1320	550x800x700	20

APPLICATION

For ceramic hobby groups and school workshops for firing of deco

STANDARD DESIGN

- Manually controlled door opening to the left
- CERAMIC controller
- Ventilation of external jacket preventing from vapour condensation upon firing and significantly reducing the jacket temperature
- Aeration flue with manually controlled flap in the furnace bottom
- Semiconductor non-contact switch relay (smooth and noiseless operation, minimum interference with surrounding devices)
- Even heat distribution in the furnace according to DIN 17052-1 (Class A)
- 230 V models are equipped with supply cables with single-phase plugs, other with 3-phase CEE plugs, „S"-type thermocouple
- Bottom covered with SiC plate
- Stand

KH CHAMBER HOBBY FURNANCES

Type	T max °C	Capacity l	Ext. dimensions mm (wxhxd)	Int. dimensions mm (wxhxd)	Power kW	Weight kg	Protection A	Voltage V
KH 50/11	1150	50	720x1270x870	350x350x400	3,5	95	16/1	230
KH 90/12	1280	90	820x1320x960	450x410x490	7	125	20/3	400
KH 120/12	1280	120	820x1440x1010	450x500x540	9	165	16/3	400
KH 190/12	1280	190	1010x1575x1165	550x590x590	12	230	20/3	400

Technical changes reserved

KH 120

APPLICATION

For ceramics hobby groups, individual interested persons and professional ceramists for firing of decoration ceramics, stoneware, glass and china ornaments, glassfusing, enamels.

STANDARD DESIGN

- Manually controlled door opening sidewards
- Manual ventilation flap in the bottom and ceiling
- CERAMIC controller
- Ventilation of external jacket preventing from vapour condensation upon firing and significantly reducing the jacket temperature
- SiC cover plate on furnace bottom
- Even heat distribution in the furnace according to DIN 17052-1 (Class A)
- Stand
- Lower price as compared with „Profi" design of K furnaces
- 230V models are equipped with supply cables with single-phase plugs, other with 3-phase CEE plugs.
- „S"-type thermocouple

ACCESSORIES FOR EXTRA CHARGE

- Automatic ventilation flap
- Door opening to the right
- Non-typical stand
- Graphic recorder
- INDUSTRY controller with RS 232 or RS 485 interface for PC connection
- Software for temperature cycle monitoring and record

ES

Weight kg	Protection A	Voltage V
125	16/1	230
165	16/3	400
230	16/3	400
280	16/3	400
310	25/3	400
360	32/3	400
420	40/3	400

Technical changes reserved

ration ceramic, enamels and glass.

ACCESSORIES FOR EXTRA CHARGE

- Automatic ventilation flap
- Graphic temperature recorder
- Exhaust fan
- INDUSTRY controller with RS 232 or RS 485 interface for PC connection
- Software for temperature cycle monitoring and record

GF *FURNACES FOR GLASSFUSING*

Type	T max °C	Capacity l	External dimensions mm (wxhxd)	Internal dimensions mm (wxhxd)	Power kW	Protection A	Weight kg	Voltage V
GF 200/10	1050	200	1380x1300x950	1000x400x500	8	16/3	130	400

Technical changes reserved

APPLICATION

For ceramics hobby groups, individual interested persons and professional ceramists and artists for glassfusing, glass and china ornament firing.

STANDARD DESIGN

- Ceiling heating inserted in ceramic tubes
- Top insulation materials (low power consumption, possibility of rapid approach to required temperature)
- Aeration flues
- Semiconductor non-contact switch relay (smooth and noiseless operation, minimum interference with surrounding devices)
- Even heat distribution in the furnace according to DIN 17052-1 (Class A)
- Manually controlled lid with gas springs
- CERAMIC controller

ACCESSORIES FOR EXTRA CHARGE

- INDUSTRY controller with RS 232 or RS 485 interface for PC connection
- Fused glass tubes
- Automatic ventilation flaps (INDUSTRY controller necessary)
- Ceiling manual flaps
- Graphic temperature controller (INDUSTRY controller necessary)
- Additional heating in walls
- Overpressure ventilation for faster chilling, or for controlled furnace cooling
- Stand on wheels
- Lid with pneumatic vertical lift
- Travelling table (alternatively on rubber wheels or rails) independently travelling out of the furnace frame
- Additional table (alternatively on rubber wheels or rails)
- Travelling design of furnace in combination with solid tables
- Guides for stripping of level of the table charge

GF 200/10

L *ENAMELLING FURNACES*

Type	T max °C	Capacity l	Ext. dimensions mm (wxhxd)	Int. dimensions mm (wxhxd)	Power kW	Weight kg	Protection A	Voltage V
L 03/11,12	1100,1200	3	380x400x415	180x100x140	1,2	30	16/1	230
L 05/11,12	1100,1200	5	430x425x445	230x130x170	2,4	35	16/1	230
L 09/11,12	1100,1200	9	430x465x515	230x170x240	3,0	42	16/1	230
L 15/11,12	1100,1200	15	450x465x615	250x170x340	3,6	48	16/1	230

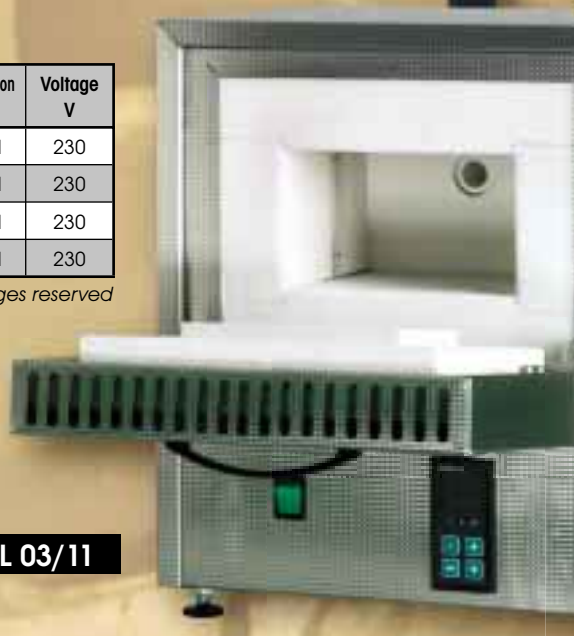
Technical changes reserved

APPLICATION

For plastic artists, ceramics hobby groups, school workshops and professional ceramists for firing of small enamelled products, for glass and china ornament firing, glassfusing, firing and glaze tests, laboratory tests.

STANDARD DESIGN

- Door opening manually downwards
- HT 40 A controller
- Stainless steel design
- Ventilation of external jacket preventing from vapour condensation upon firing and significantly reducing the jacket temperature
- Top insulation materials (low power consumption, possibility of rapid approach to required temperature)
- Semiconductor non-contact switch relay (smooth and noiseless operation, minimum interference with surrounding devices)
- Even heat distribution in the furnace according to DIN 17052-1 (Class A)



L 03/11

- Aeration flue at the back of the furnace
- Supply cables fitted with single-phase plugs
- „S"-type thermocouple
- Heating panels in the ceiling and bottom of the furnace

ACCESSORIES FOR EXTRA CHARGE

- INDUSTRY controller with RS 232 or RS 485 interface for PC connection
- Exhaust fan (INDUSTRY controller necessary)

VS SLAB ROLLER

Type	Dimensions mm (wxhxl)	Weight kg
Slab roller	850x1150x1000	60

Technical changes reserved

APPLICATION

Manufacture of ceramics of plates

STANDARD DESIGN

- Working surface consists of finished chipboard plate
- Guiding bars in the inside, on which a chain for gear wheel is located and surfaces for guiding wheels
- Travelling cylinder over the working surface is controlled in horizontal direction by wheel, in vertical direction by two cranks setting the thickness of the layer to be rolled.
- Height of rolled layer can be read off on scales in mm located on the travel edges
- A plastic plates with dimension same as the working surface forms a part of the supply

ACCESSORIES FOR EXTRA CHARGE

- Cloth preventing from tearing of the rolled clay plate and sticking thereof to the roller and table plate

FIRING **AIDS**

Distance poles	Height of supplied standardized distance poles (mm)									
MINI (Ø 26 mm)	20	30	40	50	60	70	80			
MIDI (Ø 40 mm)	40	60	80	100	125	150	180	200	250	
MAXI (Ø 50 mm)	40	60	80	100	125	150	180	200	250	300

Technical changes reserved

APPLICATION

Various firing aids are available for better utilisation of the furnace internal space.

INTERLAYER PLATES AND DISTANCE POLES

Particularly interlayer plates are used to protect the furnace bottom or as interlayer plates for firing on multiple floors (material cordierite-mullite). Distance poles are used to build the floors. We can supply these aids in various standardized sizes, but also in dimensions on request. Interlaying crosses are intended for specific charge position.

WARNING

New and unused interlaying plates must be dried before first firing. Temperature in furnace for this purpose should achieve 350 °C in approx. three and a half hours. After this process that will protect the plate from cracking it is possible to use the plates in a usual manner.

SBS *DRY SPRAYING BOX*

Type	External dimensions mm (wxhxd)	Internal dimensions mm (wxhxd)	Power W	Weight kg	Voltage V
SBS	750x1700*x850	650x660x500	60** 150***	65	230

* *without exhaust fan*
** *without exhaust fan*
*** *with exhaust fan*

Technical changes reserved

SBS

APPLICATION
Application of glazes or engobes on ceramic products by spraying. Produced dust particles are exhausted through filter into exhaust fan.

STANDARD DESIGN
- Light with clip for safe design resistant to humidity
- Rotating painter ring in the middle of the chamber
- Discharge in chamber bottom for offtake of excessive glaze and cleaning
- Simple filter of non-woven textile in the chamber ceiling

ACCESSORIES FOR EXTRA CHARGE
- Exhaust fan diam. 160 mm
- Exhaust hose diam. 160 mm
- Hose clip
- Replacement filter 250 x 560 mm

SBVC

SBVC *SPRAYING BOX WITH WATER SCREEN*

Type	External dimensions mm (wxhxd)	Internal dimensions mm (wxhxd)	Power W	Weight kg	Voltage V
SBVC	750x1740*x850	650x615x540	150** 250***	95	230

* *without exhaust fan*
** *without exhaust fan*
*** *with exhaust fan*

Technical changes reserved

APPLICATION
Application of glazes or engobes on ceramic products by spraying. Produced dust particles settle on the rear screen, over which the water flows, thus preventing these particles from dispersing into ambient environment.

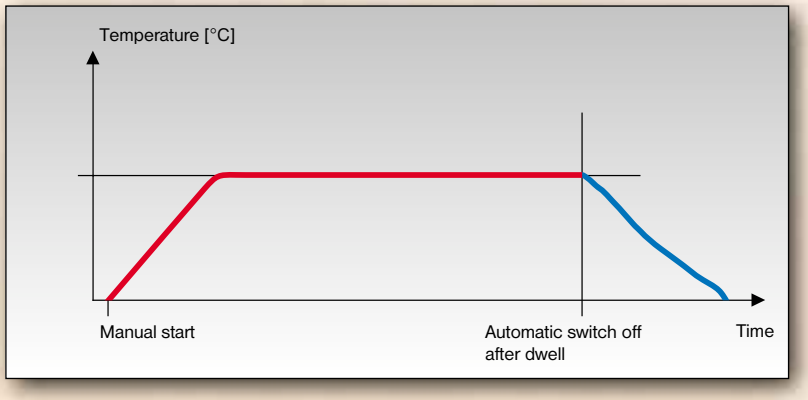
STANDARD DESIGN
- Light with clip for safe design resistant to humidity
- Rotating painter ring in the middle of the chamber
- Discharge in chamber bottom for offtake of excessive glaze and cleaning into a tank
- Tank in lower part of frame with pump
- Simple filter of non-woven textile in the chamber ceiling

ACCESSORIES FOR EXTRA CHARGE
- Exhaust fan diam. 160 mm
- Exhaust hose diam. 160 mm
- Hose clip
- Replacement filter 250 x 560 mm

TEMPERATURE CONTROLLERS

Electrical resistance furnaces of LAC, Ltd. are fitted with the following types of high-quality PID controllers HT 40 A, INDUSTRY or CERAMIC. The said controller types are microprocessor-controlled instruments meeting all temperature control and electro-thermal device security requirements.

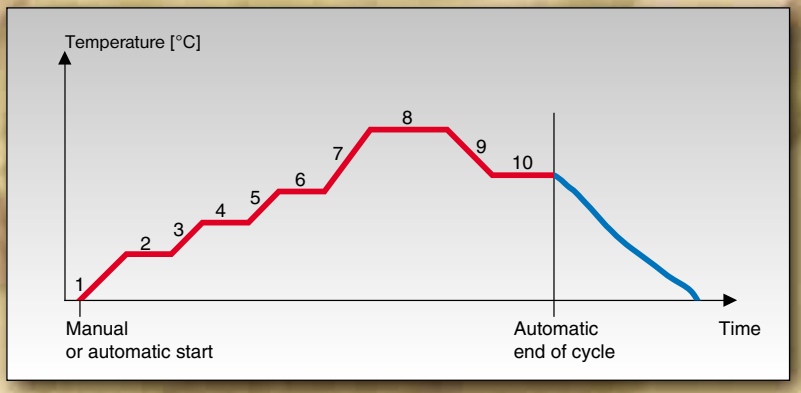
HT 40 A



HT 40 A temperature controller

- Simple operation
- Constant temperature control
- Control according to simple program
- Control accuracy ± 2 °C

CERAMIC



CERAMIC temperature controller

- Simple operation
- Real-time clock
- 20 programs can be saved in the memory, each including up to 15 steps
- Optional control of furnace accessories
  – automatic ventilation flap
  – temperature progress report
  – signalling, etc.
- Temperature increase or decrease over defined time
- Temperature increase or decrease at required speed in °C/hour
- Control accuracy ± 2 °C

EDITION OF LAC CATALOGUES

industrial furnaces
and dryers

laboratory furnaces

ceramic furnaces

glass furnaces

LAC Ltd., Štefánikova 116, 664 61 Rajhrad, Czech Republic
phone +420 547 230 016 • fax +420 547 230 212
info@lac.cz • www.lac.cz