



Power-saving, light-weight and
space-saving electric furnace



HATA ELECTRIC MFG. CO., LTD.

ELEPOT[®]

— Electric Furnace —



For quenching, melting and burning

HATA ELECTRIC MFG. CO., LTD.

YOKOHAMA

Reducing costs

Increasing work speed

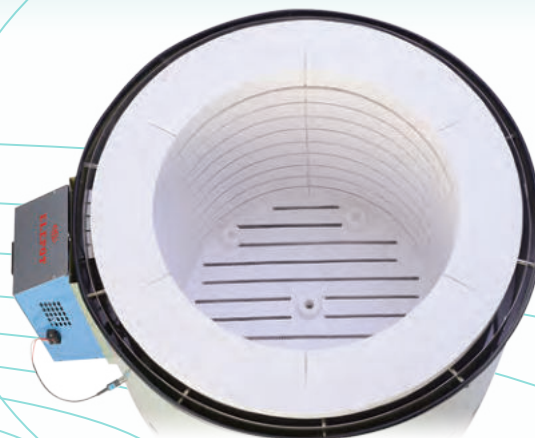
Introduction of the ELEPOT will reduce outsourcing costs and expenses and allow speedy response to a request of short delivery.

Electric furnace that you can install anywhere

Space-saving size has been pursued to allow you to move and carry by adopting ceramics fiber for thermal insulation material. Light weight has been realized by installing an air layer between the outer wall and the furnace.

Being particular about the shape

The cylindrical furnace without four corners allows even heating to a work.
Also, the design with consideration for work efficiency allows easy setting of a work in and out from the lid type door.



Specifications of the ELEPOT

Excessive temperature rising prevention function provided as standard

Standard accessories

Model	Small size	Large size
	SH Model	LH Model
Maximum temperature	1150 °C	1150 °C
Operating temperature	1100 °C	1100 °C
Power requirement	1.8 kW ^{*1}	4 kW ^{*1}
Outside dimensions	φ 355 × 540 mm ^{*2}	φ 620 × 700 mm ^{*2}
Inside dimensions	φ 200 × 300 mm ^{*3}	φ 400 × 400 mm ^{*3}
Load capacity (Bottom reinforced type)	5 kg or less (Not allowed)	10 kg or less (30 kg / 50 kg or less)
Net weight	15 kg	40 kg (With casters)

- Hearth plate 1
- Thermocouple 1
- Lid rest 1
- Repair cement 1
(For inside of the furnace)
- Liner piece 4 (Small size)
8 (Large size)

*1: Compatible with any voltage

*2: Excluding the control panel

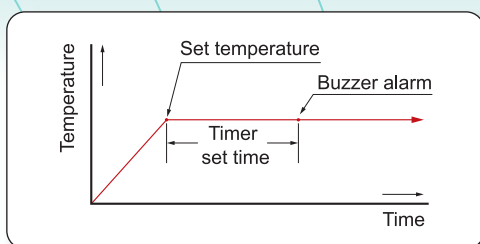
*3: Excluding the liner piece and the hearth plate

Realizing low price One third of conventional electricity consumption

Mass production through molding has realized one of the lowest prices in the industry and the original design with reduced electricity consumption is a topical energy-saving design.

User-friendly and simple operation

Operation is easily conducted only by setting the set temperature and the timer.
The temperature adjuster has a built-in timer to sound a buzzer alarm after the retention time.
The three-level P.I.D. control provides a stable temperature control covering from low temperature to high temperature.



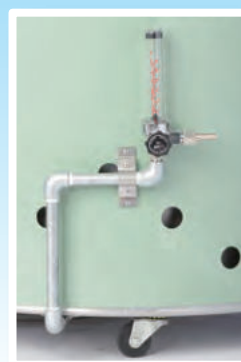
Typical uses

1. Quenching, tempering and annealing of steel material
2. Quenching and annealing of aluminum, copper alloy and other non-ferrous metals
3. Heating for shrink fitting and processing
4. Sintering
5. Melting of metals
6. Firing of ceramic ware

Nitrogen atmosphere specification (Option)



Inflowing of nitrogen prevents rough surface and insufficient hardness due to oxidization and decarburization by heating.
As a flow meter is equipped with the unit, you can use it immediately after connecting a hose.



- * Nitrogen gas has no danger of explosion and toxicity.
- * There is also an inner cover that has an effect for further preventing oxidation and decarburization from occurrence.

Information about options

There is another catalog in which only options were collected.

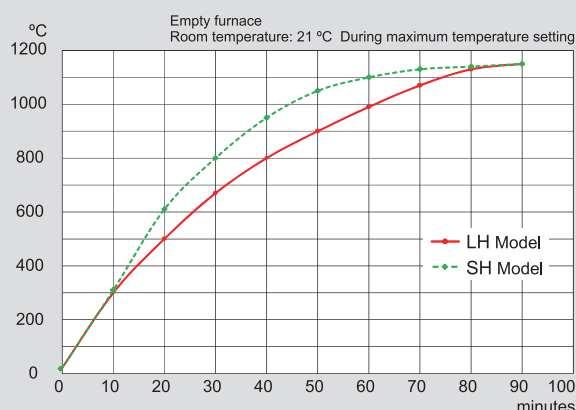
ELEPOT



Demonstration Video



Temperature characteristic curve



Examples of heat treatment temperature

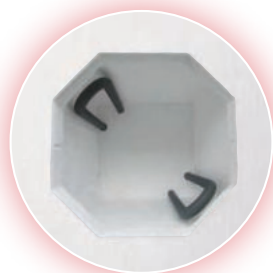
*Some models are not able to process some steel materials.

Material to perform heat treatment	Annealing (°C)	Quenching (°C)	Tempering (°C)
S45C	810 ●	820 - 870 ●	550 - 650 ●
SK3	750 - 780 ●	760 - 820 ●	150 - 200 ○
SKS3	750 - 800 ●	800 - 850 ●	150 - 200 ○
SKD11	830 - 880 ●	1000 - 1050 ●	150 - 200 ○
SKD61	820 - 870 ●	1000 - 1050 ●	550 - 650 ○
SKH3	840 - 900 ●	1270 - 1310 ●	560 - 590 ○
SKH51	800 - 880 ●	1200 - 1250 ●	540 - 570 ○

○ Air cooling ● Water cooling ● Oil cooling ● Slow cooling

Ultra-High Temperature Electric Furnace ELEPOT LU Model

Maximum Temperature: 1400 °C



★ Inside the furnace

The ELEPOT LU Model, adopting a SiC (silicon carbide) heater which is particularly strong in the high-temperature range, can be used stably in a wide temperature range. As a special thyristor is used for temperature control to automatically monitor the output, no difficult adjustment is required.

Item	LU Model
	Specifications
Maximum temperature	1400 °C
Operating temperature	1300 °C
Power requirement	Single-phase 200 V, 4.5 kVA
Outside dimensions*1	500 × 500 × 820 H mm
Inside dimensions*2	φ200 × 320 H mm
Load capacity	5 kg or less
Net weight	66 kg

*1: Excluding the control panel

*2: Excluding the hearth plate

▶ Please contact us if you need other specifications.

Common parts

【Compatible with all models】

Item	Specifications	Unit
Lid	Each model	1 piece
Liner piece	φ 35 × 15 t	1 set (10 pieces)
Hearth plate	Each model	1 plate
Thermocouple	Each model	1 piece
Heat-resisting wire	φ 1.6	10 m
Heat-resisting hanger rod	φ 8, φ 12	1 m
Repair cement (For inside of the furnace)	300 g	1 can
Glue cement (For lid felt)	350 g	1 can

Other products

Custom made electric furnace (Manufactured according to your request.)	See another catalog.
Seal peel melting tank (Protects metal items from rust and damage.)	See another catalog.
ELEPAK (Stainless steel pack for anti-oxidation and anti-decarbonization)	See another catalog.

Represented by:
Prolific Heating International Co., Ltd

11/11 Moo 11 King Kaew 37 Alley, Racha Thewa, Bang Phli District, Samut Prakan 10540
Email: prolific@phiheating.com
Website: www.phiheating.com
Phone: +662 170-8171

Manufactured items ELEPOT Electric Furnace / Heat Processing Furnaces / Seal Peel Melting Tank / ELEPAK



HATA ELECTRIC MFG. CO., LTD.

8-37-37 Shinyoshidahigashi Kohoku-ku Yokohama-shi, Kanagawa 223-0058, Japan
TEL: +81-45-545-1410 / FAX: +81-45-545-1402
E-mail info@hatadenki.co.jp
URL <http://www.hatadenki.co.jp>

Jul. 2020