



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

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

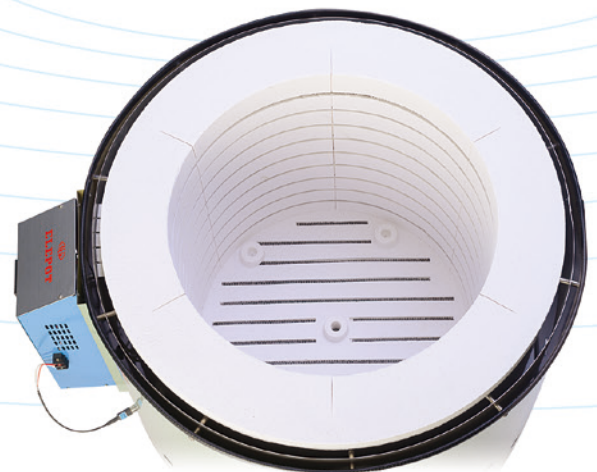
Ceramics fiber is used for the heat insulation material, realizing a compact size that can be moved and carried.

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.

Safety Design

It is designed to reduce heat transfer by installing an air layer between the outer wall and the furnace.
In addition, safety is enhanced by the standard equipment of an excessive temperature rise prevention function.



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	1.8KW ^{*1}	4KW ^{*1}
Outside dimensions	φ355 × 540 mm ^{*2}	φ620 × 700 mm ^{*2}
Inside dimensions	φ200 × 300 mm (275 mm) ^{*3}	φ400 × 400 mm (370 mm) ^{*3}
Load capacity (Reinforced bottom)	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)

★ Plug is not included.

*1: Compatible with any voltage

*2: Excluding the control panel

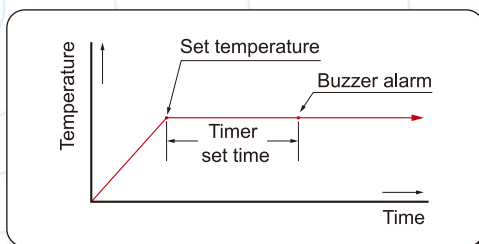
*3: Furnace effective dimensions

Realizing low price One third of conventional electricity consumption

We (Hata-Denki) are doing mass production through by molding. It was realized one of the lowest price in industry. It is an energy-saving design that reduces power consumption by in-house (original) design that makes use of our know-how (Knowledge).

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

Other options

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 decarbonization from occurrence.

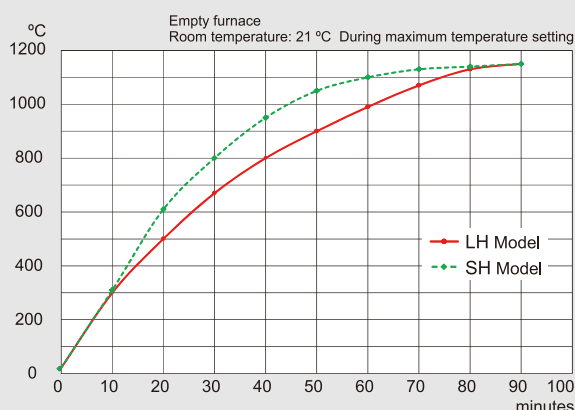
ELEPOT



Demonstration Video



Temperature characteristic curve



Examples of heat treatment temperature

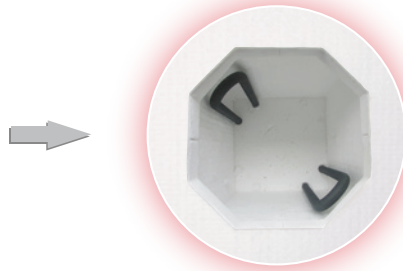
*Some models are not able to process some steel materials.

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.

Model	LU Model
	Specifications
Maximum temperature	1400 °C
Operating temperature	1300 °C
Power requirement	4.5KVA ^{*1}
Outside dimensions	500 × 500 × 820 mm ^{*2}
Inside dimensions	φ200 × 320 (310 mm) mm ^{*3}
Load capacity	5 kg or less
Net weight	66 kg

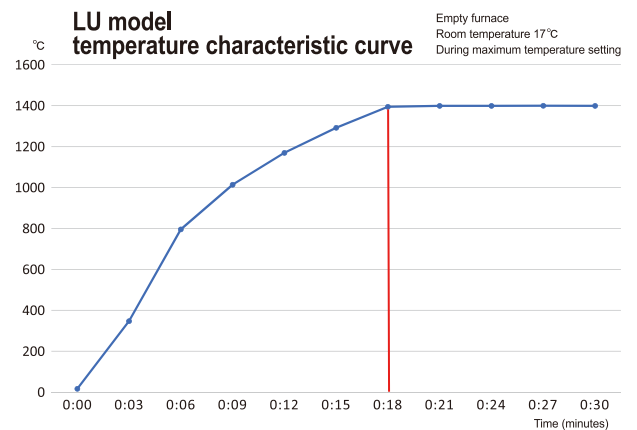
*1: Compatible with any voltage

*2: Excluding the control panel

*3: Furnace effective dimensions

▶ Please contact us if you need other specifications.

★ Plug is not included.



Common parts

【Compatible with all models】

Item	Specifications	Unit
Lid	Each model	1 piece
Liner piece	φ35 × 15 t	1 set (10 pieces)
Hearth plate	Each model	1 plate
Thermo-couple	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.

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 <https://www.hatadenki.co.jp>

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