



- Heat-shrink technology
- Test equipment
- Consultancy

Technical information : Hot-set ovens HS 6014, HS6018, HS6022 and HS 6024



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Hot-Set-Oven type PTL-HS6014



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Description and technical specification of the PTL- HS6014 hot set oven

The PTL- HS6014 hot set oven is a basic and very compact oven designed for measuring the hot-set elongation at elevated temperatures according IEC EN 60811-507-Hot Set test for cross-linked materials.

Technical Specification

Convection technology	Gravity convection
Maximum Temperature	250°C
Test Chamber Volume	60L
Dimensions (WxHxD)	Chamber 328x480x 389mm Exterior 530x720x565mm

Rated voltage / frequency **230 V / 50-60Hz**

Rated power	1,8 kW
Weight	44kg
Spatial Temperature Deviation at 150°C	±2.5°C
Temperature Deviation over time at 150°C	± 0.4°C
Interior	Stainless Steel 304
Interior Lighting	Included

The unit is equipped with:

Glass window (dimensions: 280 x 216 mm)

Sample holder for 5 samples

Opto-Laser measuring unit, incl. Digital reading for precise measuring of elongation.

5 Weights holders incl. clamp (weight is included)

* Min. loading Weight 35gram, Max. loading weight 800gram

Easy to read, large display, Easy setting with intuitive interface

Easy cleaning with rounded corners

Routine check upon startup for optimum performance levels

Low surface temperatures

Space saving footprint without compromising volume

Unique door design reduces heat emission significantly

Optional items for type PTL-HS6014

Data cable that can be connected to a notebook

Notebook for data transfer to Excel sheet with Graph Incl. Microsoft Works

Mini Data processor incl. data cable for printing the results of the Hot Set Measurement

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Hot-Set-Oven type: PTL-HS6018



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Description and technical specification of the PTL- HS6018 hot set oven

The PTL- HS6018 hot set oven, is an oven which is designed for measuring the hot-set elongation at elevated temperatures (**up to 300°C**) according IEC EN 60811-507-Hot Set test for cross-linked materials.

Technical Specification

Test chamber volume	108 liter
Convection technology	ventilator (adjustable in 10 % steps)
Display	Twin display with touchscreen
Dimensions (internal) (W x H x D):	560 x 480 x 400 mm (interior chamber) 745 x 864 x 584 mm (exterior)
Temperature	+10 till +300°C
Voltage/Frequency	230 V / 50-60 Hz
Power	2,8 kW
Interior	Stainless Steel
Weight	78kg

Features:

- Easy to clean
- Temperature alarm
- Glass window with 4 layers isolation glass
- 8 Fixing-clamps, to hold 8 samples
- Opto-laser measuring unit, incl. digital reading for precise measuring of elongation.
- 8 Weight containers incl. clamp and 400 gram weight-load. Loading weight per container: 35 – 400 gram
- Easy to read, large display, easy setting with intuitive interface
- Low surface temperatures
- Space saving footprint without compromising volume

Optional items for type PTL-HS6018

Data cable that can be connected to a notebook

Notebook for data transfer to Excel sheet with Graph Incl. Microsoft Works

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Hot Set Oven type: PTL-6022 HS



Image: **PTL-6022 HS** (Note: sliding door, glass--window and laser light measuring system are not on this picture)

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Description

The PTL 6022 HS hot-air oven, is a state of the art, custom designed oven for measuring the hot-set elongation at elevated temperatures according following specifications:

IEC EN 60811-507 Hot Set test for cross-linked materials

ICEA T-28-562 Test method for measurements of Hot Creep of Polymeric Insulations

IEC EN 60811-401 Thermal ageing methods, ageing in an air oven

Technical Specification

Maximum Temperature	250°C
Test Chamber Volume	99 Liter
Dimensions Chamber	W554 x H524 mm x D340
Exterior	W879 x H820 mm x D715
Rated voltage / frequency	230 V / 50-60 Hz
Rated power	2,3 kW (Current: 10 A)
Weight	65 kg
Interior	Stainless Steel
Circulation Ventilator	Adjustable with speed control 30....100%
Interior Lighting	Switch on right front side (short-term use)

The unit is equipped with: Temperature controller Type: Jumo Diratron, including digital display of actual and set temperature values.
Adjustable Speed Regulator for forced air circulation.
Upper temperature safety device, class 2 according to DIN 12 880 Part 1
Indoor lighting for easy inspection of the samples
Front door provided with glass window.
Built-in 4-pole socket (potential-free contact)
RJ45 interface socket.
Opto-electronic laser system.
Sample holder for 8 samples
Laser measuring unit, incl.
* Timer (0,5 sec. to 100 hr) on laser, to switch off power for increased service life
* Digital reading for precise measuring of elongation.
8 Weights holders incl. clamp (weight is included)

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Loading weight : 35 – 400 gram



Impression of the glass window and opto- electronic laser light.

Optional items for type PTL- 6022 HS oven



- **Sliding side door** (incl. 8 sample holders), positioned in the right side of the oven, for inserting and cutting the samples (*)

()Minimalizing temperature loss when the sliding side door is fully opened*

Impression of the sliding door, incl. sample holders and loads.

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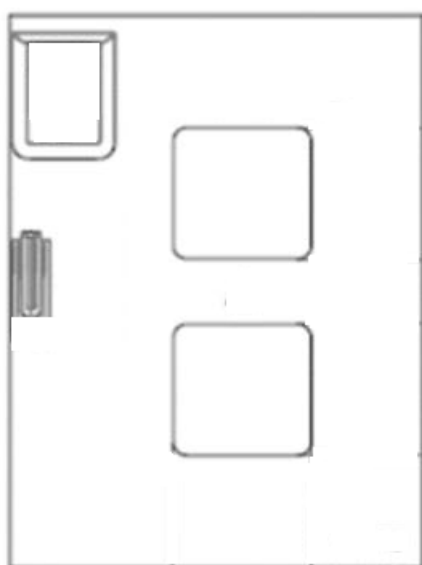
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Hot-Set-Oven type PTL-HS6024



Impression-sketch of the HS6024 hot-set-oven, excl. laser measuring device.



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Impression of the opto-electronic laser light and measuring device (over 1 window only).
(The measuring device on the HS 6024 oven will be mounted over the 2 windows)

Description and technical specification of the PTL- HS6024 hot set oven

The PTL- HS6024 hot-set -oven features a high measuring chamber, which has been designed for measuring the hot-set elongation of products showing high elongations at elevated temperatures according IEC EN 60811-507-Hot Set test for cross-linked materials.

Technical Specification

Convection technology	Gravity convection
Maximum Temperature	250°C
Test Chamber Volume	180L
Dimensions (WxHxD)	Chamber approx. 44 x 68 x 57 cm Exterior approx. 64 x 92 x 74 cm
Rated voltage / frequency	230 V / 50-60Hz
Rated power	3.1 kW
Weight	70kg
Spatial Temperature Deviation at 150°C	±2.5°C
Temperature Deviation over time at 150°C	± 0.4°C
Interior	Stainless Steel 304
Interior Lighting	Included

The unit is equipped with:

2 Glass windows (dimensions (WxH): 21 x 20 cm each, having a distance of approx. 10 cm between the windows)

Sample holder for 6 samples

Opto-Laser measuring unit, incl. Digital reading for precise measuring of elongation.

6 Weights holders incl. clamp (weight is included)

* Min. loading Weight 35gram, Max. loading weight 400gram

Easy to read, large display, Easy setting with intuitive interface

Easy cleaning with rounded corners

Routine check upon startup for optimum performance levels

Low surface temperatures

Space saving footprint without compromising volume

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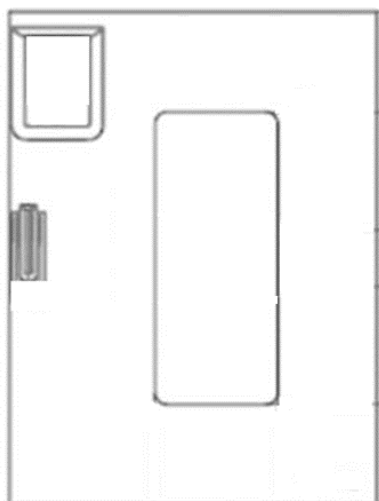
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Optional items for type PTL-HS6024



One large viewing window approx. 50 x 21 cm, for an uninterrupted measuring area.

Mechanical ventilation

- Adjustable fan speed for application related airflow.
- Fan speed is adjustable at 5 different speeds, but cannot be switched off to avoid overheating.

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Warranty

Warranty 12 months after date of delivery

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