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Frontloader ELS 1000 S

⊕	Volume	1000 litres
⊙	Int. dimensions (w x d x h)	920 x 1060 x 1145 mm
⏻	Power	70 kW
Ⓒ	Tanw *	1290°C

* **Application temperature** for long-term and continuous use.

Technical data

☰ Overview

Product group	Kiln
Design	Frontloader
Type	ELS-S series

⏻ Energy

Energy type	Electrical
Power	70 kW
Supply	100 A
Voltage	3/N/PE 400V AC
Connection	fixed connection

⊕ Dimensions

Volume	1000 litres
Int. dimensions (w x d x h)	920 x 1060 x 1145 mm
Ext. dimensions (W x D x H)	1670 x 1730 x 2100 mm
Weight	1500 kg

☆ Equipment

Insulation	3-layer
Heating	5-side
Heating elements	Support rods
Control	ST 310

Besondere Merkmale



Long-term application temperature Tapp 1290°C

The kiln is designed for long-term and continuous use at temperatures up to 1290°C which makes it suitable for applications such as bisque, earthenware, onglaze and stoneware firing as well as high-temperature stoneware, soft paste porcelain firings. These applications correspond to Seger Cone 8 or Orton Cone 9.



Confirmed achievement of the application temperature.

Thanks to the precise calculation and quality of the heating elements, the specified operating temperature is safely reached. Additionally, the high-quality insulation concept ensures minimal heat losses of the kilns.



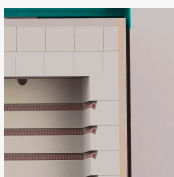
Cognitive Connectivity with the ROHDE myKiln App

This kiln can be connected to the ROHDE myKiln app using the included controller and enjoy all the advantages of the "digital firing program".



Ergo Load System ELS

Das Ergo-Load-System ELS bezeichnet Kammeröfen mit einem Schubboden zum Ausfahren. Der Ofenboden kann wie eine Schublade ausgefahren werden und ermöglicht damit ein ergonomisches und rückschonendes Beladen von drei Seiten. Zwei hydropneumatische Dämpfer bremsen den Wagen kurz vor Erreichen der Endposition sanft ab. Die zusätzliche Bremsfunktion arretiert den Ofenboden sicher in jeder beliebigen Position.



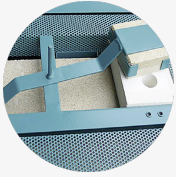
Careful sealing of the door

The seal between the door and the outer bricks is ensured by a flexible insulating cord. This insulating cord closes the high-quality polished sealing surfaces in the cooler area around the front row of bricks and reduces the escape of thermal energy and radiation.



Air supply slide

The fresh air supply into the firing chamber can be regulated manually with the air supply slide installed as standard on the underside of the furnace. Among other things, this removes residual moisture and combusted substances from the firing chamber or accelerates the cooling phase. In some models, the air supply slides can optionally be equipped with a servomotor and can thus be controlled automatically via the furnace control.

**Exhaust air flap handle**

The manual exhaust air flap handle is available for the controlled removal of gases and hot exhaust air. With the exhaust air flap handle and a generously designed exhaust air opening in the furnace ceiling, the escape of hot exhaust air can be controlled manually. Ventilation or cooling can be adapted very precisely to the required process using the slide mechanism. In some models, the exhaust air flap handles can optionally be equipped with a servomotor and can thus be controlled automatically via the furnace control.

**Safety – Safety switch**

The safety switch, which is installed on the door of the furnace, interrupts the circuit to the heating elements when the door is opened and thus prevents live components from being touched.

**Safety - Over-temperature protection**

The integrated overtemperature protection prevents damage to electrical components. The electronic over-temperature protection is a safety routine in the control system, which can avoid a malfunction of the furnace and thus prevent damage to the electrical system.

**Easy-to-maintain switchgear mounted at the back of the furnace**

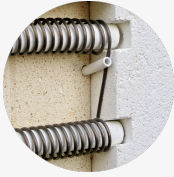
The switchgear is mounted at the back of the furnace and can be easily maintained and accessed.

**Unique system prevents particles from falling onto the products**

ROHDE uses a unique concept of mortar-free lightweight firebricks combined with R-SiC ceiling supports preventing cracks and particles from falling onto the products.

**5-side heating allows for good heat distribution**

Heating from 5 sides (side walls, back wall, door and floor) results in very good heat distribution throughout the firing chamber.



Heating elements securely mounted on support rods

Heating elements are mounted in a protected position on Sillimantín support rods and achieve ideal heat radiation and facilitate easy replacement of heating elements.



Precise temperature measurement with the “Type S” thermocouple

The installed PtRhPt thermocouple (type S) is protected against damage and guarantees exact temperature measurement at all times.



High-quality heating elements

We only use high-quality Kanthal A1 wire for the heating elements. In addition to a solid calculation with sufficient power reserves, careful processing in the manufacture of the heating elements is crucial for long service life. This leads to reliable and highly efficient heating elements as well as low spare part costs.



Plug-in control system

All ROHDE furnaces are connected to the control system via a standardised plug connection (CPC 14 or CPC 19). This enables quick and easy installation and simplifies the replacement of the control system during servicing.



3-year warranty

We produce each kiln by hand and keep to strict quality guidelines. Therefore, we offer a voluntary 36-months warranty to extend legal warranty regulations.