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## Chamber Furnace **KE 50/10 EW**

⊕	Volume	<b>50 litres</b>
⊙	Int. dimensions (w x d x h)	<b>300 x 450 x 315 mm</b>
⊖	Power	<b>5 kW</b>

## Technical data

### ☰ Overview

Product group	<b>Kiln</b>
Design	<b>Chamber Furnace</b>
Type	<b>KE-EW series</b>

### ⏻ Energy

Energy type	<b>Electrical</b>
Power	<b>5 kW</b>
Supply	<b>11 A</b>
Voltage	<b>3/N/PE 400V AC</b>
Connection	<b>CEE 16 A</b>

### ⊕ Dimensions

Volume	<b>50 litres</b>
Int. dimensions (w x d x h)	<b>300 x 450 x 315 mm</b>
Ext. dimensions (W x D x H)	<b>520 x 840 x 865 mm</b>
Weight	<b>90 kg</b>

### ☆ Equipment

Insulation	<b>2-layer</b>
Heating	<b>3-side</b>
Heating elements	<b>Recessed into bricks</b>
Control	<b>TC 2088</b>

## Besondere Merkmale

### Torsion-resistant riveted steel housing

The housing consists of a torsion-resistant rivet construction. Each furnace is manufactured by hand and leaves the factory after undergoing extensive quality controls.

### Corrosion protection due to stainless steel in-frame ventilation

The fully in-frame ventilated steel construction contributes to low external temperatures and combined with stainless steel components provides effective protection against corrosion.

### Durable textured paint finish

The high-quality light-grey RAL 7035 textured coating protects the furnace body and steel construction.

### Adjustable feet can be set easily

Adjustable machine feet allow for precise height adjustment and guarantee a secure footing.

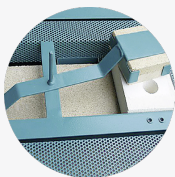
### Robust swing door allows for safe opening

The convenient operation of the swing door allows easy opening of the furnace. The solid door handle ensures smooth operating procedures even when opening the hot furnace while the process is running.



#### Air supply handle

The manual air supply handle ensures the best possible ventilation of the furnace interior.



#### Exhaust air flap handle

The manual exhaust air flap handle is available for the controlled removal of gases and hot exhaust air.

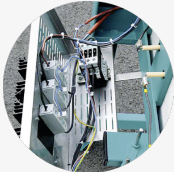
### First-class useful volume

All insulating materials are processed precisely and carefully. Lightweight firebricks in the firing chamber are characterised by a high insulation value and good thermal shock resistance.



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

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



#### **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.

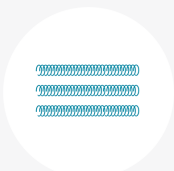


#### **Integrated safety due to door contact switch**

A door contact switch automatically isolates the heating elements from the power supply when the kiln opens. The integrated overtemperature protection prevents damage to electrical components.

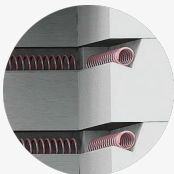
#### **Low-wear solid-state relays for control**

The furnace is controlled by low-wear, silent solid-state relays with external cooling elements.



#### **3-side heating allows for good heat distribution**

All-around heating (on the side walls) combined with floor heating results in very good heat distribution throughout the firing chamber.



#### **Heating elements securely recessed into bricks**

Heating elements are recessed in protected position into bricks and achieve high energy input and provide ideal protection against mechanical damage.

#### **Heating elements can be easily accessed and serviced**

An easy-to-access detachable cover for heating element connections allows the effortless 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.



#### **The “CEE 16 A” connector allows for easy connection**

The standardised CEE 16 A connector allows for easy connection and quick start-up.

#### **Components from well-known manufacturers contribute to long service life**

We only obtain our electric components from well-known manufacturers (e.g. SIEMENS, MOELLER, WEIDMÜLLER, RITTAL).

#### **Furnace construction in accordance with DIN EN 746-1**

The unit is constructed and manufactured in accordance with DIN EN 746-1 Industrial Thermoprocessing Equipment.

#### **Switchgear design in accordance with DIN EN 60519**

The switchgear is designed in accordance with DIN EN 60519 Safety in Installations for Electroheating.

#### **2-year warranty despite intense use**

We deliberately refuse to reduce the warranty period despite commercial furnaces being used intensely except parts that are subject to wear.