TE 100 DPF

ROHDE Toploader

ROHDE

Product data sheet

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Toploader **TE 100 DPF**

Volume	**100 litres**
Int. dimensions (w x d x h)	**Ø470 x 570 mm**
Power	**5 kW**

Technical data

Overview

Product group	**Kiln**
Design	**Toploader**
Type	**TE-DPF series**

Energy

Energy type	**Electrical**
Power	**5 kW**
Supply	**16 A**
Voltage	**3/N/PE 400V AC**
Connection	**CEE 16 A**

Dimensions

Volume	**100 litres**
Int. dimensions (w x d x h)	**Ø470 x 570 mm**
Ext. dimensions (W x D x H)	**750 x 750 x 900 mm**
Weight	**95 kg**

Equipment

Insulation	**2-layer**
Heating	**All-around**
Heating elements	**Recessed into bricks**
Control	**Jumo (integrated)**

Besondere Merkmale

Torsion-resistant welded steel housing

The housing consists of a torsion-resistant welded 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.

Easy-to-move transport castors allow for effortless movement

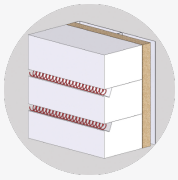
Transport castors with large, smooth-running wheels allow for effortless and safe movement of the furnace.

Safe lid opening thanks to the robust lid

The lid comprises a robust lid hinge and a gas pressure spring allows for easy lid opening.

Air supply handle

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



Efficient 2-layer insulation structure

A sophisticated 2-layer insulation structure allows for required temperatures to be achieved using less energy. High energy efficiency can be achieved even in continuous use.

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.

Covered heating elements on the floor

A high-quality cordierite plate protects heating elements mounted on the floor. The cordierite plate guarantees good heat transfer and at the same time protects the heating elements from damage.

Easy-to-maintain switchgear mounted in a connection box

The switchgear is mounted in a stainless steel connection box 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 contactors for control

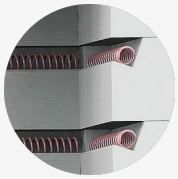
The furnace is controlled by low-wear, durable contactors.

All-around 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.

Durable heating elements made of “Kanthal A1”

We are committed to minimal surface load and precise manufacture when dimensioning “Kanthal A1” heating elements, so a long service life is guaranteed.



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 “Type K” thermocouple

The installed NiCrNi thermocouple (type K) 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 and 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.