

# Magma

## Preheating furnace

Magma is a preheating furnace with all the technical features, which fulfill all the requirements in terms of programming, handling and ergonomics.



“Heating coils integrated in the walls of the furnace chamber are protected against aggressive gases and mechanical damage. The result is a long service life.”

**Oliver Bothe, Product Management,  
Master Dental Technician**

### Advantages

- Four-sided heating ensures uniform heating in the entire furnace chamber.
- Quick heat rate: to 900°C (1654°F) in only 60 min.
- 99 Program storage spaces + 1 Program for speed investments.

### Catalyst converter

Reduction of unpleasant odors and smoke thanks to catalytic post-combustion of furnace gases.

- Intelligent control via the Magma.
- Chemical conversion of organic constituents into carbon dioxide and water vapor.
- Increase in service life thanks to automatic switch-off at 650°C (1202°F). The catalyst converter operates continuously when using the speed program.

### Technical data – Magma

Permissible mains voltage / frequency	220–240 V, 50/60 Hz   230 V, 50 Hz
Power consumption	1900 W
Mains input fuse	12 A (T)
Temperature range	0°–1100 °C / 30°–2010 °F
Programmable heating rate	0°–9 °C/min / 0°–17 °F/min
Max. heat-up rate in 1 hour	900 °C / 1652 °F
Number of programmable stage programs	99
Number of speed programs	1
Muffle volume	3,45 l (0.91 gal)
Dimensions, incl. one handle and flue (W x H x D)	430 x 500 x 440 mm (16.9 x 19.7 x 19.3")
Dimensions, incl. one handle and catalyst converter (W x H x D)	430 x 610 x 550 mm (16.9 x 24.0 x 21.7")
Muffle dimensions (W x H x D)	160 x 120 x 180 mm (6.3 x 4.7 x 7.1")
Type temperature sensor	PtRh-Pt
Weight incl. catalyst converter	34,8 kg (76.7 lbs)
Weight incl. flue	30 kg (66.1 lbs)

### Technical data – Catalyst converter

Permissible mains voltage / frequency	230 V, 50/60 Hz
Power consumption	580 W
Weight	4,8 kg (10.6 lbs)
Dimensions (W x H x D)	190 x 370 x 170 mm (7.5 x 15.6 x 6.7")

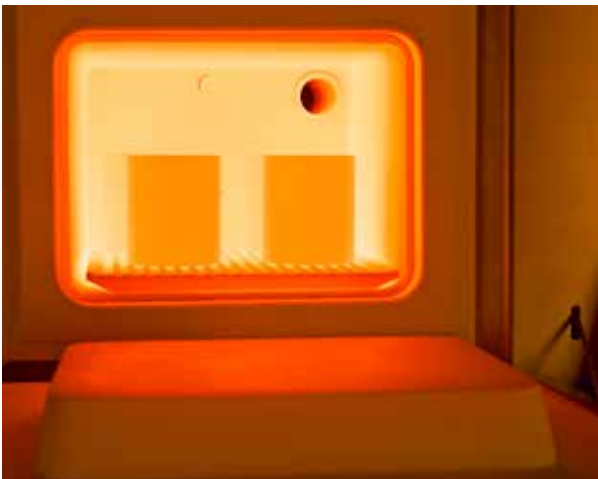
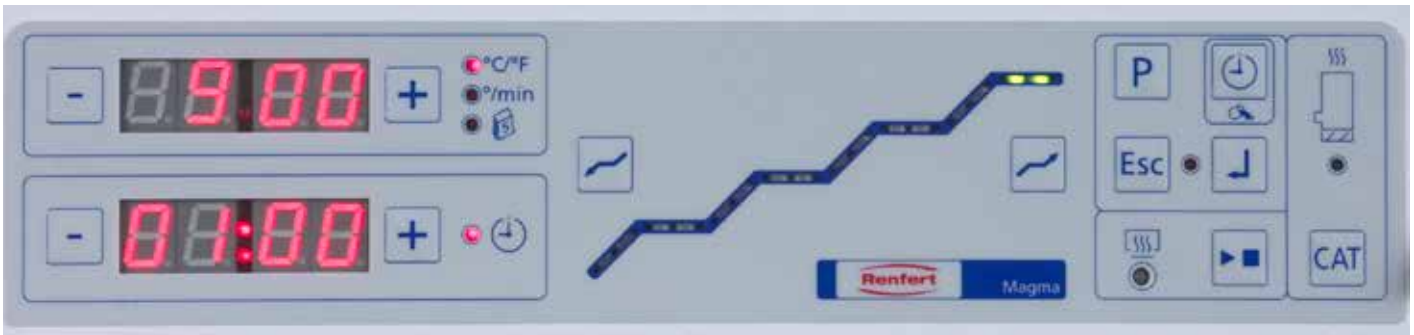
### Ordering information

<b>Magma</b> , 220–240 V	No. 2300 0000
<b>Magma for use with catalyst converter</b> , 220–240 V	No. 2300 0500
<b>Magma</b> , 230 V US	No. 2300 3000
<b>Magma for use with catalyst converter</b> , 230 V US	No. 2300 3500
<b>Katalysator</b> , 220–240 V	No. 2300 0001
<b>Katalysator</b> , 230 V US	No. 2300 3001

### Further information

Model casting manual: [www.renfert.com/P48](http://www.renfert.com/P48)





#### Temperature

- The one-piece furnace chamber prevents localized heat loss, which is otherwise caused by joints.
- Guarantees uniform temperature distribution due to the high density of heating coils in thermally demanding zones.

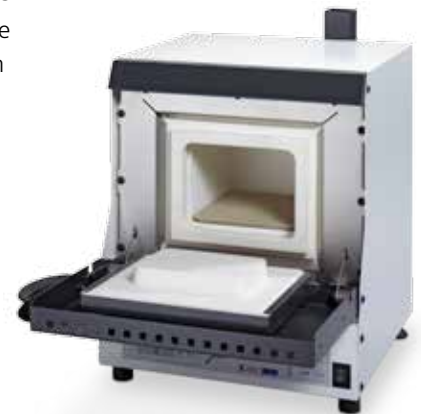
#### Precision

- Temperature displayed is measured at the furnace chamber level.
- Long service life and high accuracy thanks to a PtRh-Pt thermocouple.



#### Flexibility

- 9 x #3, 4 x #6, 3 x #9 casting rings.
- Casting rings can be placed on the furnace door, which is made from special ceramic fibers.



"The catalyst converter detoxifies the flue gases, which are created during heating. It is easily attached to the furnace in a few simple steps and the furnace detects the additional components automatically."

**Nikolaus Langner, Dental Technician**

