

# Mini/Tube Roller Incubator

## ■ Proven and space-saving

In standard and research laboratories, our **Mini Incubator 4010** and the **Tube Roller Incubator 4020** have meanwhile become indispensable. Due to their compact build, both models require only little space and are, therefore, very well suited for versatile applications directly on the workbench. Furthermore, their lift-up, see-through acrylic glass covers permit a clear view of the cultures in the interior cabinet.



## 4020

### Technical Data

Temperature regulation:  
microprocessor-controlled

Temperature range:  
approx. 8 °C above ambient to +60 °C

Temperature constancy (temporal):  
±0.2 °C at 40 °C

Temperature setting and display:  
digital - LED, in 0.1 °C increments

Over-temperature cut-out:  
electronical / dependent on the set value,  
with visual alarm at 4 °C above the set  
value, and electro-mechanical > 135 °C

Volume: approx. 10 l

Motion: rotating

Frequency: 12 rpm fixed

Maximum load: 3 kg

Interior dimensions (W x D x H):  
230 x 300 x 140 mm

Exterior dimensions (W x D x H):  
280 x 510 x 280 mm

Electrical connection:  
230 V / 50...60 Hz / 0.36 kW \*  
\* Other voltages on request

Net / gross weight: 11.7 kg / 13.7 kg

Packing volume (cardboard box):  
approx. 0.11 m<sup>3</sup>

■ Order No. 4020

## 4010

### Technical Data

Temperature regulation:  
microprocessor-controlled

Temperature range:  
approx. 8 °C above ambient to +60 °C

Temperature constancy (temporal):  
±0.2 °C at 40 °C

Temperature setting and display:  
digital - LED, in 0.1 °C increments

Over-temperature cut-out:  
electronical / dependent on the set value,  
with visual alarm at 4 °C above the set  
value, and electro-mechanical > 135 °C

Volume: 12 l

Maximum load: 5 kg

Interior dimensions (W x D x H)  
230 x 310 x 170 mm

Exterior dimensions (W x D x H):  
280 x 510 x 280 mm

Electrical connection:  
230 V / 50...60 Hz / 0.33 kW \*  
\* Other voltages on request

Net / gross weight: 10.1 kg / 11.8 kg

Packing volume (cardboard box):  
approx. 0.11 m<sup>3</sup>

■ Order No. 4010



## Mini Tube Roller Incubator 4020

disposes of a removable bottle rotating device, consisting of four parallel rotating axles each with two rubber rollers that can be moved along the axle.

Hybridisation bottles with  $\varnothing$  32 mm to  $\varnothing$  76 mm can be placed individually or in pairs (even with different diameters) between the rubber rollers; the use of two roller bottles for cell cultures with  $\varnothing$  110 mm and 285 mm length is possible.

To place bottles of different diameters, the outer axles can be placed into pre-fabricated seats without the use of tools.



4020



**Special Hybridisation Bottles** made of borosilicate glass, to place between the rubber rollers. Plastic screw cap with 0.5 mm bore hole in the middle for pressure compensation (also available without bore holes on request).

**Order No. 7943** for  $\varnothing$  32 mm, 273 mm length

**Order No. 7944** for  $\varnothing$  38 mm, 273 mm length

**Order No. 7945** for  $\varnothing$  51 mm, 273 mm length

## Specifications and Features

- ▶ The ventilator ensures optimum temperature distribution throughout the cabinet interior.
- ▶ Electronical monitoring of the temperature controller triggers a visual alarm in case of fault, i.e. if the set value is exceeded by 4 °C. The heating is switched off, the cause of the fault is shown on the LED display.
- ▶ Thermostatic over-temperature cut-out to protect the heating element.
- ▶ Soft-touch keys with clear symbols. Protection against unintended alterations by two-finger-operation.
- ▶ Microprocessor-controlled temperature regulation ensures fast reaching of set temperatures and high temperature constancy. Exact reproducibility of the set value by fast and exact temperature setting.
- ▶ Perforated tray, bottom tray (4010) and removable flask rotating device (4020) are made of stainless steel.

## Applications

The Mini Incubator is very well suited for incubations that require exactly reproducible temperatures, also for tempering, warming and drying of samples.

The Mini Tube Roller Incubator is universally applicable for incubations and hybridisations. It is equipped with a variable, removable flask rotating device, and provides even results and high resolutions of the detections even when in continuous use due to its constant frequency of 12 rpm.