

## **AUTOMATED CENTRIFUGES**

# MIKRO 220 ROBOTIC

#### FAST AND COMPACT

The MIKRO 220 Robotic is an air-cooled, robotically operated microlitre centrifuge with PC activation. It centrifuges tubes up to 2.0 ml (e.g. microlitre tubes or HPLC tubes) quickly and safely. This qualifies it for sample preparation in research laboratories of the life sciences as well as for daily routine tasks in medical diagnostics or industrial quality control.

Wherever processes can be automated, MIKRO 220 Robotic centrifuges will optimize the workflow. Samples are centrifuged automatically while the laboratory personnel are able to concentrate on other tasks. As loading and unloading is carried out by means of a robot arm, the samples are made available for further processing right after centrifugation.



#### - HIGHLIGHTS

- max RPM: 13,000 min -1
- max. RCF: 18.327
- max. capacity: 24 x 1.5/2.0 ml
- Compact industry design
- Loading and unloading hatch in the lid
- Hatch opening time < 5 seconds
- IVDR-conform according to regulation (EU) 2017/746
- Fast + Slow positioning mode
- Positioning time of 3 seconds
- Positioning accuracy 3 encoder steps (out of a total of 4096)
- 9 individual acceleration and deceleration stages

#### FEATURES

- Metal housing and lid
- Viewing port in the lid (for speed measurement or maintenance)
- Powered lid lock
- Lid dropping protection
- Emergency lid lock release
- Stainless steel inner chamber
- Automatic rotor recognition
- Error display
- Imbalance switch-off
- Overtemperature fuse
- Interface via RS 232
- Overcurrent limitation when closing the hatch
- Manual operation via key switch possible (backup)



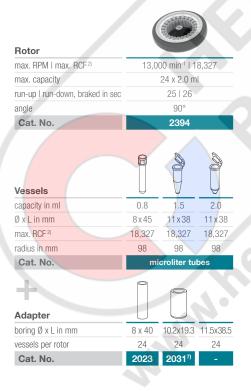
## TECHNICAL DATA

#### **MIKRO 220 ROBOTIC**

non-refrigerated

automated opening		front
frequency		50 – 60 Hz
consumption		460 VA
max. capacity		24 x 1.5 / 2.0 ml
max. RPM		13,000 min <sup>-1</sup>
max. RCF		18,327
Permissible density of the	e centrifuged material	1.2 kg/dm <sup>3</sup>
dimensions (WxDxH)		490 x 380 x 345 mm
weight		approx. 27 kg
Cat. No.		2350
100-127 V / 50 - 60 Hz		2350-01
- SWING-0	UT ROTOR, 24-PL	_ACE, 90°   2394
Rotor		
max. RPM   max. RCF <sup>2</sup>	13,000 min <sup>-1</sup>   18,327	
max. capacity		
man oupdoity	24 x 2.0 ml	

# - SWING-OUT ROTOR, 24-PLACE, 90° | 2394



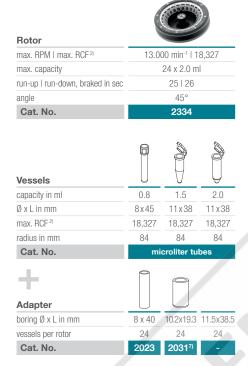


Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

For centrifugation at high speeds, we recommend to use conical, phenolresistant adapters. Cat. No. 2031.



# - SWING-OUT ROTOR, 24-PLACE, 45° | 2334





- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 7) For centrifugation at high speeds, we recommend to use conical, phenolresistant adapters. Cat. No. 2031

## **CERTIFICATIONS / REGISTRATIONS**

Product certification: | Product registration:



IVDR CERTIFIED ation: Company certifications:









LABORATORY EQUIPMENT MAINTENANCE, REPAIR, CALIBRATION AND SALES

Established in 1987, Henderson Biomedical is the UK's leading laboratory equipment sales and service provider. Our knowledgeable team can provide you with excellent sales advice on a range of different types of laboratory equipment including centrifuges, refrigerators, freezers and heat sealers.

Henderson Biomedical is also able to provide you with first class after-sales service and calibration of your laboratory equipment. We are an **ISO 17025 (UKAS) accredited calibration test laboratory** and our team of Field Service Engineers cover the whole of the United Kingdom.

Please contact us for more information on the types of equipment we supply and the different after-sales services we can offer.

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