

MICROLITRE CENTRIFUGES HERAEUS • BIOFUGE • PICO AND BIOFUGE • FRESCO

Compact, fast and quiet



The microlitre centrifuges in the Biofuge[®] family are specially made to handle biological separation tasks. Whether non-refrigerated (Biofuge[®] pico) or refrigerated (Biofuge[®] fresco), these centrifuges are indispensable in the modern biological laboratory. Heraeus[®] centrifuges meet all current European Community guidelines and are CE labelled.



Typical Applications

- Pelleting DNA and RNA
- Pelleting of PCR amplified nucleic acids
- Antibody and protein precipitates
- Enzymatic tests
- Removing cell debris from cell homogenates
- Bacterial and yeast cell fractionation

Biofuge[®] pico

- Incredibly small microlitre centrifuge
- Short braking and acceleration times
- Ergonomic design
- Max. capacity: 24 x 1.5/2 ml or 4 PCR-strips or 32 individual PCR-tubes
- Max. speed: 13,000 rpm
- Max. RCF: 16,060 x g
- Aerosol tight "Easy-Twist-On" lid

Biofuge[®] fresco

- The smallest refrigerated centrifuge for microlitre tubes
- Ultra-quiet standstill cooling
- Powerful CFC-free refrigeration unit
- Max. capacity: 24 x 1.5/2 ml or 4 PCR-strips or 32 individual PCR-tubes
- Max. speed: 13,000 rpm
- Max. RCF: 16,060 x g
- Aerosol tight "Easy-Twist-On" lid



BIOFUGE[®] PICO AND FRESCO

Compact design

Create space in your laboratory. Take advantage of the 23 x 33 cm footprint of the small Biofuge[®] pico, which can be integrated into any workplace. The minimum height of the pico casing makes it easier to load the rotor.

The refrigerated Biofuge[®] fresco, with a footprint of 29 x 45 cm, is scarcely larger than many non-refrigerated centrifuges.

High performance

The brushless induction motor runs quietly. In 15 seconds or less, the rotor accelerates to 16,000 x g, which is sufficient for all standard applications. A "quick run" key is used for short processing runs.

The high-powered refrigeration unit of the Biofuge[®] fresco with stand by cooling ensures temperatures beneath 0 °C even at maximum speed.

Ergonomic design

The smooth design of the casing and the modern keypad control are easy-to-clean. The straightforward arrangement of the keys, with icon labels and the EASYcontrol™ microprocessor controller, make it simple to operate.

One-touch lid opening allows for easy access to the rotor.

ROTORS AND ACCESSORIES FOR BIOFUGE[®] PICO AND FRESCO

Both centrifuges are equipped with a 24-place microlitre rotor suitable for 1.5 or 2 ml tubes and optimised for applications in the biological sciences. The polypropylene plastic rotor can be autoclaved and offers extensive chemical resistance. The Easy-Twist-On aerosol tight lid (included) offers exceptional comfort and safety.



Optional features include adapter sets enabling centrifugation of all commercially available microlitre tubes, from 0.6 ml to 0.2 ml PCR-tubes.

MIKROLITRE ROTOR INCL. EASY-TWIST-ON AEROSOL TIGHT LID ORDER NO. 75003328

		Biofuge [®] pico	Biofuge [®] fresco
Max. capacity	ml	24 x 1.5/2.0	24 x 1.5/2.0
Max. speed	rpm	13,000	13,000
Max. RCF	x g	16,060	16,060
Acceleration time	s	15	15
Braking time	s	12	16
Max. radius	cm	8.5	8.5

Reducer sleeves	Order numbers
24 reducer sleeves for 0.6/0.5 ml microtubes	76003758
24 reducer sleeves for 0.4/0.25 ml microtubes	76003759
24 reducer sleeves for 0.2 ml microtubes	76003750

PCR-ROTOR INCL. EASY-TWIST-ON AEROSOL TIGHT LID ORDER NO. 75003327

		Biofuge [®] pico	Biofuge [®] fresco
Max. capacity		4 PCR-strips or 32 individual 0.2 ml PCR-tubes	4 x 8 PCR-strips or 32 individual 0.2 ml PCR-tubes
Max. speed	rpm	13,000	13,000
Max. RCF	x g	12,846	12,846
Acceleration time	s	15	12
Braking time	s	15	16
Max. radius	cm	6.8	6.8



With this additional rotor you can easily spin smaller sample volumes especially 4 PCR-strips (8 tubes each) or 32 individual PCR-tubes.

TECHNICAL DATA

	Biofuge [®] pico	Biofuge [®] fresco
Designation	Microtitre centrifuge	Refrigerated microtitre centrifuge
Max. RCF	16,060 x g	16,060 x g
Max. speed	13,000 rpm adjustable in 100 rpm increments	13,000 rpm adjustable in 100 rpm increments
Min. speed	2,000 rpm	2,000 rpm
Control	Microprocessor-controlled via EASYcontrol™	Microprocessor-controlled via EASYcontrol™
Drive	Frequency-controlled induction drive	Frequency-controlled induction drive
Acceleration/delay	–	–
Noise level at max. speed	< 55 db (A)	< 55 db (A) standstill cooling < 45 db (A)
Run time	1 – 99 min, continuous operation, quick run	1 – 99 min, continuous operation, quick run
Program memory	The most recently entered data remains in the memory.	The most recently entered data remains in the memory.
Construction	Galvanised steel chassis with surface-mounted plastic casing	Plastic casing with galvanised steel chassis and sheet steel lid, stainless steel rotor bowl
Safety features	Lid locks and interlocks	Lid locks and interlocks
Temperature range	–	–9 bis +40 °C
Min. temp. at max. speed	–	0 °C (ambient temp. = 25 °)
Dimensions (HxWxD)	206 x 233 x 335 mm 8.1 x 9.2 x 13.2 inch	305 x 290 x 450 mm 12.0 x 11.4 x 17.7 inch
Weight (without rotor)	9.7 kg 21.3 lbs	27 kg 59.4 lbs
Power consumption	150 W	270 W
Standards	Manufactured and tested in conformity with EN 61 010-1, EN 61 010-2-020, EN 50 081-1, EN 50 082-1 Not subject to testing in accordance with UVV VBG 7z	
Refrigerant	–	R 134 a (CFC-free)

ORDER NUMBERS		230 V/50–60 Hz	110–120 V/60 Hz
Biofuge [®] pico	incl. 24-place microtitre rotor 75003328 with Easy-Twist-On aerosol tight lid	75003235	75003236
Biofuge [®] fresco	incl. 24-place microtitre rotor 75003328 with Easy-Twist-On aerosol tight lid	75005521	75005522

Your Sales Contact

For Ordering or Technical Information

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