

# MIKRO 200 | 200 R

## Faster results in molecular biology

The MIKRO 200 and MIKRO 200 R are amongst the highest-speed microliter centrifuges in their class. Rotors are designed to spin microliter and PCR tubes. MIKRO 200 achieves a maximum RCF of 21,382 with up to 30 tubes, enabling rapid processing of samples and optimal separation, at low noise levels of 54 dB(A). This unit is available with refrigeration and a temperature range from -10 °C to +40 °C (MIKRO 200 R).

### — FEATURES

- RPM: 500 - 15,000 min<sup>-1</sup> – adjustable in increments of 10
- Max. RCF: 21,382
- Max. capacity: 30 x 2.0 ml
- Choice of 4 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Impulse key for short cycle mode
- Easy operation with keypad and control knob
- 4 program memories for more individuality
- 9 individual acceleration and 9 deceleration stages
- Model 200 R coolable from -10 to +40 °C with pre-cooling function

### — FIELDS OF APPLICATION

- Hospitals
- Pediatric clinics
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic research
- Forensic laboratories
- Molecular diagnostics



Centrifuge packages for the model can be found on page 42



More information about the control panel can be found on page 202



according to regulation (EU) 2017/746



## TECHNICAL DATA

	MIKRO 200 non-refrigerated	MIKRO 200 R refrigerated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 Hz
consumption	240 VA	450 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	30 x 1.5 / 2.0 ml	30 x 1.5 / 2.0 ml
max. RPM	15,000 min <sup>-1</sup>	15,000 min <sup>-1</sup>
max. RCF	21,382	21,382
running time	1 – 99 min: 59 s, ∞ continuous run, short cycle mode (impulse button)	1 – 99 min: 59 s, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	275 x 344 x 260 mm	281 x 553 x 260 mm
weight	approx. 11.5 kg	approx. 28 kg
noise level	≤ 58 dB (A) with rotor 2434	≤ 51 dB (A) with rotor 2437
temperature control, infinitely variable	-	from -10 to +40 °C
<b>Cat. No.</b>	<b>2400</b>	<b>2405</b>
100 – 127 V 1 ~ / 50–60 Hz	2400-01	2405-01
consumption	270 VA	630 VA
emission, immunity	FCC class B	FCC class B

\*) Other voltages on request.

## AVAILABLE ROTORS

### ANGLE ROTORS

	angle	max. RPM	max. capacity	Cat. No.	page
 angle rotor, 24-place	45°	15,000 min <sup>-1</sup>	24 x 2 ml	<b>2434</b>	40
 angle rotor, 30-place	45° inside / 55° outside	15,000 min <sup>-1</sup>	30 x 2 ml	<b>2437</b>	40
 angle rotor, 24-place for spin column kits	45°	15,000 min <sup>-1</sup>	24 x 2 ml	<b>2428</b>	41
 angle rotor, 4-place	45°	15,000 min <sup>-1</sup>	4 x 8 PCR strips	<b>2418-A</b>	41

## — ANGLE ROTOR, 24-PLACE | 2434



<b>Rotor</b>	
max. RPM   max. RCF	15,000 min <sup>-1</sup>   21,382
max. capacity	24 x 2 ml
run up   run down, braked in sec	20   28
angle   max. noise level	45°   53 dB (A)
temperature in °C <sup>1)</sup>	+4
<b>Cat. No.</b>	<b>2434</b>



<b>Lid bioseal</b> <sup>9)</sup>	
<b>Cat. No.</b>	<b>INCLUSIVE</b>



<b>Vessels</b>							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF <sup>2)</sup>	21,382	21,382	21,382	21,382	21,382	21,382	20,376
radius in mm	85	85	85	85	85	85	81
<b>Cat. No.</b>	<b>microliter tubes</b>						<b>Pediatric</b>



<b>Adapter</b>							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19.3	11.2 x 42.6	11.2 x 39
vessels per rotor	24	24	24	24	24	24	12
<b>Cat. No.</b>	<b>2024</b>	<b>2024</b>	<b>2023</b>	<b>2023</b>	<b>2031<sup>7)</sup></b>	<b>-</b>	<b>0788</b>

## — ANGLE ROTOR, 30-PLACE | 2437



<b>Rotor</b>	
max. RPM   max. RCF	15,000 min <sup>-1</sup>   21,382
max. capacity	30 x 2 ml
run up   run down, braked in sec	22   30
angle   max. noise level	45° inside / 55° outside   51 dB (A)
temperature in °C <sup>1)</sup>	+4
<b>Cat. No.</b>	<b>2437</b>



<b>Lid bioseal</b> <sup>9)</sup>	
<b>Cat. No.</b>	<b>INCLUSIVE</b>



<b>Vessels</b>							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF <sup>2)</sup>	21,382	21,382	21,382	21,382	21,382	21,382	20,376
radius in mm	85	85	85	85	85	85	81
<b>Cat. No.</b>	<b>microliter tubes</b>						<b>Pediatric</b>



<b>Adapter</b>							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19.3	11.2 x 41.3	11.2 x 39
vessels per rotor	30	30	30	30	30	30	15
<b>Cat. No.</b>	<b>2024</b>	<b>2024</b>	<b>2023</b>	<b>2023</b>	<b>2031<sup>7)</sup></b>	<b>-</b>	<b>0788</b>

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 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.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 7) For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.

## — ANGLE ROTOR, 24-PLACE | 2428



<b>Rotor</b>	
max. RPM   max. RCF	15,000 min <sup>-1</sup>   21,382
max. capacity	24 x 2 ml
run up   run down, braked in sec	20   28
angle   max. noise level	45°   53 dB (A)
temperature in °C <sup>1)</sup>	+4
<b>Cat. No.</b>	<b>2428</b>



<b>Lid bioseal<sup>5)</sup></b>	
<b>Cat. No.</b>	<b>INCLUSIVE</b>



<b>Vessels</b>									
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	1.5	2.0	0.5
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	11x38	11x38	11x38	10.7x46
max. RCF <sup>2)</sup>	21,382	21,382	21,382	21,382	21,382	21,382	21,382	21,382	20,376
radius in mm	85	85	85	85	85	85	85	85	81
<b>Cat. No.</b>	<b>microliter tubes</b>						<b>micro spin columns</b>		<b>Pediatric</b>



<b>Adapter</b>									
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10,2 x 19,3	10,2 x 19	10,2 x 19,3	11,2 x 42,6	11,2 x 39
vessels per rotor	24	24	24	24	24	24	24	24	12
<b>Cat. No.</b>	<b>2024</b>	<b>2024</b>	<b>2023</b>	<b>2023</b>	<b>2031<sup>7)</sup></b>	<b>-</b>	<b>2031<sup>7)</sup></b>	<b>-</b>	<b>0788</b>

## — ANGLE ROTOR, 4-PLACE | 2418-A



<b>Rotor</b>	
max. RPM   max. RCF	15,000 min <sup>-1</sup>   14,338
max. capacity	4 x 8 PCR strips
run up   run down, braked in sec	19   28
angle	45°
temperature in °C <sup>1)</sup>	+4
<b>Cat. No.</b>	<b>2418-A</b>



<b>Lid</b>	
<b>Cat. No.</b>	<b>E3243</b>



<b>Vessels</b>		
capacity in ml	0.2	0.2
Ø x L in mm	6x18	-
max. RCF <sup>2)</sup>	14,338	14,338
radius in mm	57	57
<b>Cat. No.</b>	<b>-</b>	<b>PCR strips</b>



<b>Adapter</b>		
boring Ø x L in mm	6,5x15,5	6,5x15,5
vessels per rotor	32	4 x 8
<b>Cat. No.</b>	<b>-</b>	<b>-</b>

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 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.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 7) For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.

## PACKAGES

### MIKRO 200 MICROLITER TUBES PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200	2400	24	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 24-place, incl. lid bioseal	2434	12	0.5 (Pediatric)	10.7 x 46	15,000	20,376

#### 2400SET1

### MIKRO 200 MICROLITER TUBES PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200	2400	30	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 30-place, incl. lid bioseal	2437	15	0.5 (Pediatric)	10.7 x 46	15,000	20,376

#### 2400SET2

### MIKRO 200 R MICROLITER TUBES PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200 R	2405	24	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 24-place, incl. lid bioseal	2434	12	0.5 (Pediatric)	10.7 x 46	15,000	20,376

#### 2405SET1

### MIKRO 200 R MICROLITER TUBES PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200 R	2405	30	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 30-place, incl. lid bioseal	2437	15	0.5 (Pediatric)	10.7 x 46	15,000	20,376

#### 2405SET2

### MIKRO 200 R SPIN COLUMN PACKAGE 3

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200 R	2405	24	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 24-place, incl. lid bioseal for spin column kits	2428	12	0.5 (Pediatric)	10.7 x 46	15,000	20,376

#### 2405SET3





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