

MICROLITRE CENTRIFUGES

— MIKRO 200 | 200 R

FASTER RESULTS IN MOLECULAR BIOLOGY

The MIKRO 200 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).



— HIGHLIGHTS

- RPM: 500 - 15,000 min⁻¹
Adjustable in increments of 10
- max. RCF: 21,382
- max. capacity: 30 x 2.0 ml
- Choice of 4 rotors
- IVD-conform according to directive 98/79/EC
- impulse key for short cycle mode
- easy operation with keypad and control knob
- 4 program memories for more individuality
- 9 individual acceleration and deceleration stages
- model 200 R coolable from -20 to +40 °C with pre-cooling function

— FEATURES





- metal housing and lid
- viewing port in the lid
- powered one-hand lid lock
- lid dropping protection
- emergency lid lock release
- stainless steel chamber
- automatic rotor recognition
- brushless drive
- error display
- display in °C and °F possible
- imbalance switch-off
- backlit panel with actual values of all parameters
- audio message after completion of the centrifugation run

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 ⁻¹ | 15,000 min ⁻¹ |
| 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 |
| Cat. No. | 2400 | 2405 |
| 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 ⁻¹ | 24 x 2 ml | 2434 | 3 |
|  angle rotor, 30-place | 45° inside / 55° outside | 15,000 min ⁻¹ | 30 x 2 ml | 2437 | 3 |
|  angle rotor, 24-place for spin column kits | 45° | 15,000 min ⁻¹ | 24 x 2 ml | 2428 | 4 |
|  angle rotor, 4-place | 45° | 15,000 min ⁻¹ | 4 x 8 PCR strips | 2418-A | 4 |

— ANGLE ROTOR, 24-PLACE | 2434



Rotor

| | |
|----------------------------------|-----------------------------------|
| max. RPM max. RCF | 15,000 min ⁻¹ 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 ¹⁾ | +4 |



Lid bioseal⁹⁾

| | |
|----------|------------------|
| Cat. No. | INCLUSIVE |
|----------|------------------|



| | |
|-----------------|-------------|
| Cat. No. | 2434 |
|-----------------|-------------|

Vessels



| | | | | | | | |
|------------------------|--------|--------|--------|--------|---------|---------|-----------|
| 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 36 |
| max. RCF ²⁾ | 21,382 | 21,382 | 21,382 | 21,382 | 21,382 | 21,382 | 20,376 |
| radius in mm | 85 | 85 | 85 | 85 | 85 | 85 | 81 |

| | | | | | | | |
|-----------------|-------------------------|--|--|--|--|--|------------------|
| Cat. No. | microliter tubes | | | | | | Pediatric |
|-----------------|-------------------------|--|--|--|--|--|------------------|



Adapter

| | | | | | | | |
|--------------------|--------|--------|--------|--------|----|-----------|---------|
| boring Ø x L in mm | 6 x 40 | 6 x 40 | 8 x 40 | 8 x 40 | - | 11.2x42.6 | 11.2x39 |
| vessels per rotor | 24 | 24 | 24 | 24 | 24 | 24 | 12 |

| | | | | | | | |
|-----------------|-------------|-------------|-------------|-------------|--------------------------|----------|-------------|
| Cat. No. | 2024 | 2024 | 2023 | 2023 | 2031⁷⁾ | - | 0788 |
|-----------------|-------------|-------------|-------------|-------------|--------------------------|----------|-------------|

— ANGLE ROTOR, 30-PLACE | 2437



Rotor

| | |
|----------------------------------|--------------------------------------|
| max. RPM max. RCF | 15,000 min ⁻¹ 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 ¹⁾ | +4 |



Lid bioseal⁹⁾

| | |
|----------|------------------|
| Cat. No. | INCLUSIVE |
|----------|------------------|



| | |
|-----------------|-------------|
| Cat. No. | 2437 |
|-----------------|-------------|

Vessels



| | | | | | | | |
|------------------------|--------|--------|--------|--------|---------|---------|-----------|
| 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 36 |
| max. RCF ²⁾ | 21,382 | 21,382 | 21,382 | 21,382 | 21,382 | 21,382 | 20,376 |
| radius in mm | 85 | 85 | 85 | 85 | 85 | 85 | 81 |

| | | | | | | | |
|-----------------|-------------------------|--|--|--|--|--|------------------|
| Cat. No. | microliter tubes | | | | | | Pediatric |
|-----------------|-------------------------|--|--|--|--|--|------------------|



Adapter

| | | | | | | | |
|--------------------|--------|--------|--------|--------|----|-----------|---------|
| boring Ø x L in mm | 6 x 40 | 6 x 40 | 8 x 40 | 8 x 40 | - | 11.2x41.3 | 11.2x39 |
| vessels per rotor | 30 | 30 | 30 | 30 | 30 | 30 | 15 |

| | | | | | | | |
|-----------------|-------------|-------------|-------------|-------------|--------------------------|----------|-------------|
| Cat. No. | 2024 | 2024 | 2023 | 2023 | 2031⁷⁾ | - | 0788 |
|-----------------|-------------|-------------|-------------|-------------|--------------------------|----------|-------------|

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. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
 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



Rotor

| | |
|----------------------------------|-----------------------------------|
| max. RPM max. RCF | 15,000 min ⁻¹ 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 ¹⁾ | +4 |

Cat. No. 2428



Lid bioseal⁵⁾

Cat. No. INCLUSIVE



Vessels

| | | | | | | | | | |
|------------------------|------------------|--------|--------|--------|--------|--------|--------------------|--------|-----------|
| | | | | | | | | | |
| 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 | 6 x 45 | 8 x 30 | 8x45 | 11x38 | 11x38 | 11x38 | 11x38 | 10.7x36 |
| max. RCF ²⁾ | 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 |
| Cat. No. | microliter tubes | | | | | | micro spin columns | | Pediatric |



Adapter

| | | | | | | | | |
|--------------------|--------|--------|--------|--------|--------------------|---------|--------------------|----------|
| | | | | | | | | |
| boring Ø x L in mm | 6 x 40 | 6 x 40 | 8 x 40 | 8 x 40 | - | 10.2x19 | - | 11.2x426 |
| vessels per rotor | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 12 |
| Cat. No. | 2024 | 2024 | 2023 | 2023 | 2031 ⁷⁾ | - | 2031 ⁷⁾ | - |
| | | | | | | | | 0788 |

— ANGLE ROTOR, 4-PLACE | 2418-A



Rotor

| | |
|----------------------------------|-----------------------------------|
| max. RPM max. RCF | 15,000 min ⁻¹ 14,338 |
| max. capacity | 4 x 8 PCR strips |
| run up run down, braked in sec | 19 28 |
| angle | 45° |
| temperature in °C ¹⁾ | +4 |

Cat. No. 2418-A



Lid

Cat. No. E3243



Vessels

| | | |
|------------------------|--------|------------|
| | | |
| capacity in ml | 0.2 | 0.2 |
| Ø x L in mm | 6x18 | - |
| max. RCF ²⁾ | 14,338 | 14,338 |
| radius in mm | 57 | 57 |
| Cat. No. | - | PCR strips |



Adapter

| | | |
|--------------------|----------|----------|
| boring Ø x L in mm | 6.5x15.5 | 6.5x15.5 |
| vessels per rotor | 32 | 4 x 8 |
| Cat. No. | - | - |

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. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
 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.

CERTIFICATIONS / REGISTRATIONS

Product certification:



Product registration:



Company certifications:

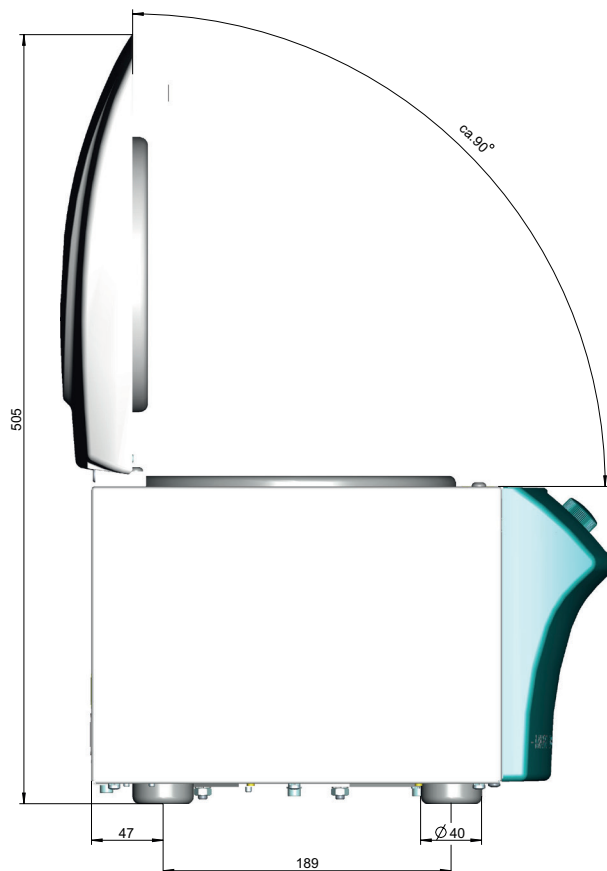


DOWNLOADS

[↓ Operating manual – MIKRO 200 | 200 R](#)

[↓ General Catalog](#)

DIMENSIONS – MIKRO 200



— DIMENSIONS – MIKRO 200 R

