

# Certificate

**mdc medical device certification GmbH**  
certifies that

**Hettich**

**Andreas Hettich GmbH & Co. KG**  
**Föhrenstraße 12**  
**78532 Tuttlingen**  
**Germany**

for the scope

**Design, development, manufacturing, distribution and servicing of  
laboratory centrifuges for IVD applications and general laboratory use,  
centrifuges for separation of blood components for transfusion purposes and  
microbiological incubators for IVD applications and general laboratory use**

has introduced and applies a

## Quality Management System

The mdc audit has proven that this quality management system  
meets all requirements of the following standard

**EN ISO 13485**

Medical devices – Quality management systems –  
Requirements for regulatory purposes

EN ISO 13485:2016 + AC:2018 + A11:2021 - ISO 13485:2016

Valid from	2022-10-25
Valid until	2025-10-24
Registration no.	D1459300003
Report no.	P21-01967-222238
Stuttgart	2022-10-25



Head of Certification Body





Management Service

# CERTIFICATE

The Certification Body  
of TÜV SÜD Management Service GmbH

certifies that



**Andreas Hettich GmbH & Co. KG**  
Föhrenstr. 12  
78532 Tuttlingen  
Germany

has established and applies  
a Quality Management System for

**Development, production and distribution of  
laboratory equipment, accessories, spare parts  
with the associated services.**

An audit was performed, Order No. **707111087**.

Proof has been furnished that the requirements  
according to

**ISO 9001:2015**

are fulfilled.

The certificate is valid from **2021-06-10** until **2024-06-09**.

Certificate Registration No.: **12 100 59604 TMS**.

Head of Certification Body  
Munich, 2021-05-27



CERTIFICAT



CERTIFICADO



СЕРТИФИКАТ



認證證書



CERTIFICATE



ZERTIFIKAT



Management Service

# CERTIFICATE

The Certification Body  
of TÜV SÜD Management Service GmbH

certifies that



**Andreas Hettich GmbH & Co. KG**  
Föhrenstr. 12  
78532 Tuttlingen  
Germany

has established and applies  
an Environmental Management System for

**Development, production and distribution of  
laboratory equipment, accessories, spare parts  
with the associated services.**

An audit was performed, Order No. **707111087**.

Proof has been furnished that the requirements  
according to

**ISO 14001:2015**

are fulfilled.

The certificate is valid from **2021-05-26** until **2024-05-25**.

Certificate Registration No.: **12 104 59604 TMS**.

Head of Certification Body  
Munich, 2021-05-27



CERTIFICAT



CERTIFICADO



СЕРТИФИКАТ



認證證書



CERTIFICATE



ZERTIFIKAT

To our customers

Michael Eberhard

+49 7461 705 1318

Michael.Eberhard@hettichlab.com

www.hettichlab.com

Dear Customer

Tuttlingen, 22.07.2021

### RoHS 2011/65 / EU conformity and compliance with the Delegated Directive (EU) 2015/863

We hereby inform you that Andreas Hettich GmbH & Co. KG manufactures and delivers the products of the product groups

- Medical devices according to Directive 93/42/EEC, as well as their accessories and spare parts from July 22nd, 2014
- In-Vitro diagnostic devices according to Directive 98/79/EC, as well as their accessories and spare parts from July 22nd, 2016

conformal to EU Directive 2011/65/EU of the European Parliament and the Council of June 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS II) as well as to the Delegated Directive (EU) 2015/863 of the Commission from March 31, 2015 amending Annex II of Directive 2011/65/EU.

The EC declarations of conformity for these products contain the 2011/65/EC and (EU) 2015/863 as applicable directives. They are part of the technical documentation of every product supplied.

Best regards,  
**Andreas Hettich GmbH & Co. KG**



i.A. Michael Eberhard  
Head of Regulatory & Quality Affairs

**CUSTOMER INFORMATION**

+49 7461 705 1318  
christian.vondergruen@hettichlab.com  
www.hettichlab.com

**TRANSITION PHASE - MDR 2017/745 AND IVDR 2017/746**

Tuttlingen, 09.04.2020

Dear valued Customer,

Andreas Hettich GmbH & Co. KG as legal manufacturer is required to comply with EU Medical Device Regulation 2017/745 and EU In-Vitro Diagnostic Medical Device Regulation 2017/746 for the following medical devices / in vitro diagnostic medical devices:

Medical Devices	ROTO SILENTA 630 RS, ROTIXA 500 RS, ROTANTA 460; ROTANTA 460R, ROTANTA 460RC; ROTANTA 460RF
IVD Medical Devices	EBA 200; EBA 200S, EBA 270, EBA 280; EBA 280S, MIKRO 220; MIKRO 220R, UNIVERSAL 320; UNIVERSAL 320R, MIKRO 185, MIKRO 200; MIKRO 200R, ROTOFIX 32A, ROTINA 380; ROTINA 380R, ROTINA 420; ROTINA 420R, HAEMATOKRIT 200; HETTCUBE ff.

We started already our transition phase in the beginning of 2019 and are currently under implementation of the new requirements.

Our current EN ISO 13485:2016 Certificate, MDSAP Certificate and CE-Certificate MDD 93/42/EEC Annex II remains valid until the end of the transition phase for our in vitro diagnostic devices under IVDR 2017/746 until **26.05.2022** and for our medical devices under MDR 2017/745 until **26.05.2024**.

We will publish the successful transition of our product portfolio on our web page as soon as available.

Mit freundlichen Grüßen / Best regards,  
**Andreas Hettich GmbH & Co. KG**

i.A.

Christian von der Grün  
Head of Regulatory & Quality Affairs

## 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<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 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 <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>	3
 angle rotor, 30-place	45° inside / 55° outside	15,000 min <sup>-1</sup>	30 x 2 ml	<b>2437</b>	3
 angle rotor, 24-place for spin column kits	45°	15,000 min <sup>-1</sup>	24 x 2 ml	<b>2428</b>	4
 angle rotor, 4-place	45°	15,000 min <sup>-1</sup>	4 x 8 PCR strips	<b>2418-A</b>	4



## — 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 36
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	-	11.2x42.6
vessels per rotor	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>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 36
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	-	11.2x41.3
vessels per rotor	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>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. 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 <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

**Cat. No.** 2428



### Lid bioseal<sup>9)</sup>

**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	6x45	8x30	8x45	11x38	11x38	11x38	11x38	10.7x36
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>	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	-	11.2x42.6	11.2x39
vessels per rotor	24	24	24	24	24	24	24	24	12
<b>Cat. No.</b>	2024	2024	2023	2023	2031 <sup>7)</sup>	-	2031 <sup>7)</sup>	-	0788

## — ANGLE ROTOR, 4-PLACE | 2418-A



### Rotor

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

**Cat. No.** 2418-A



### Lid

**Cat. No.** E3243



### Vessels

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>	-	PCR strips



### Adapter

boring Ø x L in mm	6.5x15.5	6.5x15.5
vessels per rotor	32	4 x 8
<b>Cat. No.</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. 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:



according to regulation (EU) 2017/746

Company certifications:

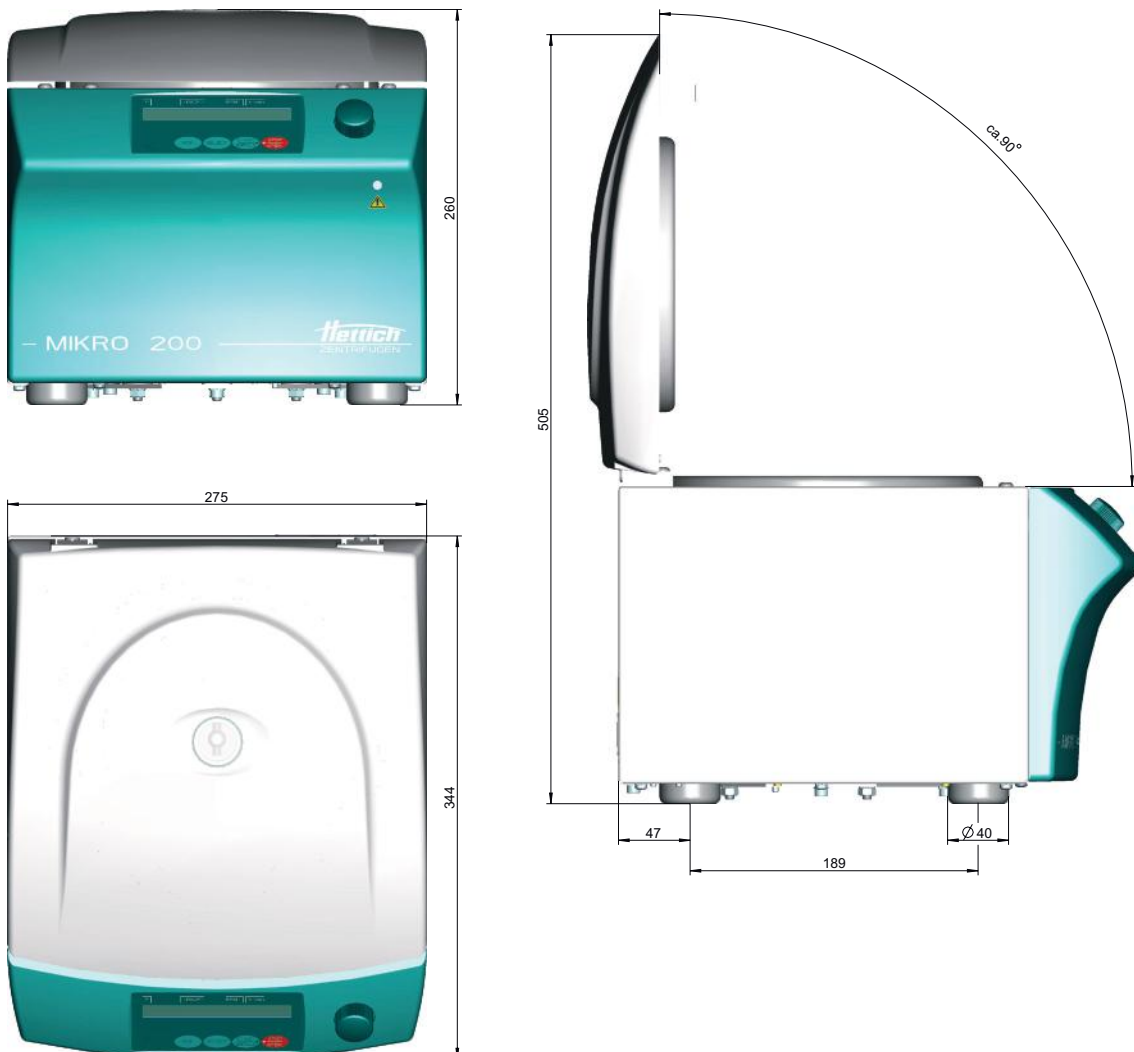


## DOWNLOADS

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

[↓ General Catalog](#)

## DIMENSIONS – MIKRO 200



— DIMENSIONS – MIKRO 200 R

