

# Microlitre Centrifuges

■ Z 216 M

■ Z 216 MK



**HERMLE**  
LABORTECHNIK

# Z 216 M

# Z 216 MK



## Specifications

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Motor driven lid lock
- Active imbalance identification and cut off
- Standstill cooling
- Audible signal at the end of each run
- CFC-free refrigeration system
- Rapid acceleration and deceleration (see rotor data)
- Lowest sample temperature 4°C at 20000 xg
- Noise level < 60 dBA at 21380 xg
- Extremely compact with a space saving footprint
- Quick access to samples with a snap on lid
- Manufactured according to international safety regulations, i. e. IEC 61010

The Z 216 M and Z 216 MK are setting new standards in this centrifuge class. Capable of centrifuging up to 44 x 1,5 / 2,0 ml at each run. Due to their compact design and quiet running properties they are fitting perfectly in their working area. The powerful refrigeration system of Z 216 MK keeps samples at temperatures as low as 4°C during a continuous run at 20000 xg.

## Technical Data

max. Speed:	15000 min <sup>-1</sup>
max. RCF:	21380 xg
max. volume:	44 x 1,5 / 2,0 ml
Speed range:	200 - 15000 min <sup>-1</sup>
Temperature range	
Z 216 MK:	-20°C to 40°C
Running time:	59 min 50 s / 10 s increments 99 h 59 min 50 s / 1 min increments

## Dimensions:

Z 216 M:	28 cm x 29 cm x 39 cm (WxHxD)
Z 216 MK:	28 cm x 29 cm x 55 cm (WxHxD)

## Weight:

Z 216 M:	17 kg
Z 216 MK:	35 kg

## Power input:

Z 216 M:	280 W
Z 216 MK:	560 W

## Order numbers:

Z 216 M:	325.00 V01 - Z 216 M, 230 V / 50 - 60 Hz
	325.00 V02 - Z 216 M, 120 V / 50 - 60 Hz
Z 216 MK:	305.00 V05 - Z 216 MK, 230 V / 50 - 60 Hz
	305.00 V06 - Z 216 MK, 120 V / 50 - 60 Hz



## Distinct Control Panel

- Simple one handed operation
- Easy to program with gloves on
- Foil keyboard
- Permanent indication of preset and actual values
- Selection of speed in both rpm and g-force, with increments of 10
- Quick-key for short runs
- 10 acceleration and deceleration rates, possibility of unbraked deceleration
- Storage of up to 99 runs including rotor
- Temperature range from -20°C to +40°C
- Input and indication of temperature either in °C or °F
- Pre-cooling program (Pre-cooling time from room temperature to +4°C < 10 min)
- Pre-selection of the running time from 10 s to 99 h 59 min or continuous

# Accessories Z 216 M and Z 216 MK

Rotor/Buckets	Adapter			
<p>Order No.: 220.87 V14</p>  <p>Angle rotor 24 x 1,5/2,0 ml Angle: 45°</p>	<p>Acceleration in s: 21/152 Deceleration in s: 18/173 max. speed: 15000 min-1 RCF: 21380 xg max. radius: 8,5 cm max. ø: 11 mm Temp. at max. speed: 6°C</p>	<p>Order No.: without without 704.005 704.004</p>	<p>Tube rack 1 x 2,0 ml 1 x 1,5 ml 1 x 0,5 ml 1 x 0,4/0,2 ml PCR</p>	<p>ø (mm)    Length (min./max.) 11        40 11        40 8         45 6         45</p>
<p>Order No.: 220.87 V13</p>  <p>Angle rotor 24 x 1,5/2,0 ml Angle: 45°</p>	<p>Acceleration in s: 21/151 Deceleration in s: 21/217 max. speed: 15000 min-1 RCF: 21380 xg max. radius: 8,5 cm max. ø: 11 mm Temp. at max. speed: 4°C</p>	<p>Order No.: without without 704.005 704.004</p>	<p>Tube rack 1 x 2,0 ml 1 x 1,5 ml 1 x 0,5 ml 1 x 0,4/0,2 ml PCR</p>	<p>ø (mm)    Length (min./max.) 11        40 11        40 8         45 6         45</p>
<p>Order No.: 221.17 V06</p>  <p>Angle rotor 30 x 1,5/2,0 ml Angle: 45°</p>	<p>Acceleration in s: 29/235 Deceleration in s: 27/258 max. speed: 13500 min-1 RCF: 19153 xg max. radius: 9,4 cm max. ø: 11 mm Temp. at max. speed: 7°C</p>	<p>Order No.: without without 704.005 704.004</p>	<p>Tube rack 1 x 2,0 ml 1 x 1,5 ml 1 x 0,5 ml 1 x 0,4/0,2 ml PCR</p>	<p>ø (mm)    Length (min./max.) 11        40 11        40 8         45 6         45</p>
<p>Order No.: 220.88 V08</p>  <p>Angle rotor 44 x 1,5/2,0 ml Angle: 40°</p>	<p>Acceleration in s: 18/136 Deceleration in s: 17/133 max. speed: 13500 min-1 RCF: 17722 / 14463 xg max. radius: 8,7 / 7,1 cm max. ø: 11 mm Temp. at max. speed: 7°C</p>	<p>Order No.: without without 704.005 704.004</p>	<p>Tube rack 1 x 2,0 ml 1 x 1,5 ml 1 x 0,5 ml 1 x 0,4/0,2 ml PCR</p>	<p>ø (mm)    Length (min./max.) 11        40 11        40 8         45 6         45</p>
<p>Order No.: 220.92 V07</p>  <p>Angle rotor 64 x 0,5 ml Angle: 40°</p>	<p>Acceleration in s: 16/136 Deceleration in s: 17/180 max. speed: 13500 min-1 RCF: 16708 / 14263 xg max. radius: 8,7 / 7,1 cm max. ø: 8 mm Temp. at max. speed: 6°C</p>	<p>Order No.: without</p>	<p>Tube rack 1 x 0,5 ml</p>	<p>ø (mm)    Length (min./max.) 8           45</p>
<p>Order No.: 221.35 V03</p>  <p>Angle rotor 12 x 5 ml Reaction tubes Angle: 45°C</p>	<p>Acceleration in s: 24/148 Deceleration in s: 17/320 max. speed: 14500 min-1 RCF: 19974 xg max. radius: 8,5 cm max. ø: 1,7 mm Temp. at max. speed: 4°C</p>	<p>Order No.: 701.015 701.016 701.017</p>	<p>1,5 - 2 ml reaction tubes (ø 11 x 42 mm) set of adapters (6 pcs.) 1,0 ml Cryo tubes (ø 12,6 x 41 mm) set of adapters ( 6 pcs.) 1,8 ml Cryo tubes (ø 12,6 x 48 mm) set of adapters (6 pcs.)</p>	
<p>Order No.: 221.38 V03</p>  <p>Angle rotor 4 x 8-PCR Strips Angle: 45°C</p>	<p>Acceleration in s: 17/150 Deceleration in s: 20/95 max. speed: 15000 min-1 RCF: 15342 xg max. radius: 6,1 cm max. ø: 6 mm Temp. at max. speed: 2,5°C</p>			
<p>Order No.: 220.58 V13 Just for 216 M</p>  <p>Hematocrit rotor 24 x capillaries Angle: 90°</p>	<p>Acceleration in s: 15/120 Deceleration in s: 15/120 max. speed: 12000 min-1 RCF: 14968 xg max. radius: 9,3 cm</p>			



## More Microlitre Models



Z 130 M

### Mini Centrifuge

Unique KOMBI-rotor for tubes and strips  
Twice the capacity of traditional mini centrifuge  
Starts and stops with closing/opening of the lid  
Compact, low profile and design  
Short acceleration and deceleration times

### Technical Data

max. speed:	5500 min <sup>-1</sup>	Dimensions:	14 x 11,2 x 20 cm (w x h x d)
max. RCF:	2000 xg	Weight:	1,3 kg
max. noise level:	52 dBA		

### Order numbers:

324.00 V01 - Z 130 M, 230 V / 50-60 Hz / 40 W  
324.00 V02 - Z 130 M, 120 V / 50-60 Hz / 40 W



Z 160 M

### Aircooled Microcentrifuge

Brushless motor  
Electrical lid lock  
Speed regulation 1000 - 14000 rpm  
Time regulation 1 - 30 min in increments of 1 min or cont.  
„Quick“-key for short runs

### Technical Data

max. speed:	14000 min <sup>-1</sup>	Dimensions:	20 x 18 x 22 cm (w x h x d)
max. RCF:	15996 xg	Weight:	4,5 kg
max. noise level:	57 dBA		

### Order numbers:

290.00 P01 - Z 160 M, 230 V / 50 - 60 Hz / 120 W | cpl. with 18 x 1,5/2,0 ml rotor  
290.00 P02 - Z 160 M, 120 V / 50 - 60 Hz / 120 W | cpl. with 18 x 1,5/2,0 ml rotor

## More from Hermle



Universal Centrifuge Z 306

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