

# Z 216 M

# Z 216 MK

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
- CFC-free refrigeration system
- Rapid acceleration and deceleration (see rotor data)
- Lowest sample temperature 4°C at 20000xg
- Noise level < 60dBA at 21379xg
- Extremely compact with a space saving footprint
- Quick access to samples
- 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 44x1.5/2.0ml 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 20000xg. A special feature is the combi-rotor for micro tubes and PCR strips.

## Technical Data

max. speed:	15,000 rpm
max. RCF:	21,631 xg
max. volume:	44 x 1.5 / 2.0 ml
Speed range:	200 – 15,000 rpm
Temperature range	
Z 216 MK:	-20°C bis 40°C
Running time:	59 min 50 s / 10 s increments 99 h 59 min / 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 / Z 216 MK: 17 kg / 35 kg

## Power input:

Z 216 M / Z 216 MK: 280 W / 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





Z 216 MK

## 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		Adapter				
<b>Order No.:</b> 220.87 V19  <p>Angle Rotor 24 x 1.5/2.0 ml Angel: 45° I hermetically sealable</p>	Acceleration in s: 21/152 Deceleration in s: 18/173 max. speed: 15,000 rpm RCF: 21,379 xg max. radius: 8.5 cm max. Ø: 11 mm Temp. at max. speed: 6°C	<b>Order No.:</b> without Adapter without Adapter 704.005 704.004	<b>Adapter</b> 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR	<b>Ø [mm]</b> 11 11 8 6	<b>Length [min./max.]:</b> 40 40 45 45	
<b>Order No.:</b> 221.81 V01  <p>Angle Rotor 24 x 1.5/2.0 ml and 4 x 8-PCR Stripes Angel: 45°</p>	Acceleration in s: 27/317 Deceleration in s: 20/185 max. speed: 15,000 rpm RCF Tubes: 21,631 xg /Stripes: 13,582 xg max. radius: 8.5 cm/5.4 cm max. Ø: 11 mm Temp. at max. speed: 11°C	<b>Order No.:</b> without Adapter without Adapter 704.005 704.004 without Adapter	<b>Adapter</b> 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR 1 x 8 PCR Stripes	<b>Ø [mm]</b> 11 11 8 6 6	<b>Length [min./max.]:</b> 40 40 45 45 20	
<b>Order No.:</b> 221.17 V19  <p>Angle Rotor 30 x 1.5/2.0 ml Angel: 45°</p>	Acceleration in s: 29/237 Deceleration in s: 27/258 max. speed: 13,500 rpm RCF: 19,151 xg max. radius: 9.4 cm max. Ø: 11 mm Temp. at max. speed: 9°C	<b>Order No.:</b> without Adapter without Adapter 704.005 704.004	<b>Adapter</b> 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR	<b>Ø [mm]</b> 11 11 8 6	<b>Length [min./max.]:</b> 40 40 45 45	
<b>Order No.:</b> 221.68 V01  <p>Angle Rotor 44 x 1.5/2.0 ml Angel: 32°/55°</p>	Acceleration in s: 35/259 Deceleration in s: 18/188 max. speed: 15,000 rpm RCF: 21,127/21,379 xg max. radius: 8.4/8.5 cm max. Ø: 11 mm Temp. at max. speed: 10°C	<b>Order No.:</b> without Adapter without Adapter 704.005 704.004	<b>Adapter</b> 1 x 2.0 ml 1 x 1.5 ml 1 x 0.5 ml 1 x 0.4/0.2 ml PCR	<b>Ø [mm]</b> 11 11 8 6	<b>Length [min./max.]:</b> 40 40 45 45	
<b>Order No.:</b> 221.75 V01  <p>Angle Rotor 24 x 2.0 ml Spin Column Kits Angel: 45°</p>	Acceleration in s: 16/136 Deceleration in s: 12/88 max. speed: 13,500 rpm RCF: 17,317 xg max. radius: 8.5 cm max. Ø: 11 mm Temp. at max. speed: 9°C	<b>Order No.:</b> without Adapter	<b>Adapter</b> 1 x 2.0 ml	<b>Ø [mm]</b> 11	<b>Length [min./max.]:</b> 40	
<b>Order No.:</b> 221.35 V03  <p>Angle Rotor 12 x 5 ml reaction tubes Angel: 45°</p>	Acceleration in s: 23/146 Deceleration in s: 16/320 max. speed: 14,500 rpm RCF: 19,978 xg max. radius: 8.5 cm max. Ø: 17 mm Temp. at max. speed: 7°C	<b>Order No.:</b> without Adapter 701.015 701.016 701.017	<b>Adapter</b> 1 x 5.0 ml conical 1 x 1.5/2.0 ml 1 x 1.0 ml Cryo, flat 1 x 1.8 ml Cryo, round	<b>Ø [mm]</b> 17 11 12.6 12.6	<b>Length [min./max.]:</b> 60 40 41 48	
<b>Order No.:</b> 221.38 V03  <p>Angle Rotor 4 x 8-PCR stripes Angel: 45°</p>	Acceleration in s: 17/149 Deceleration in s: 19/94 max. speed: 15,000 rpm RCF: 15,343 xg max. radius: 6.1 cm max. Ø: 6 mm Temp. at max. speed: 6°C					
<b>Order No.:</b> 220.58 V13 Only 216 M  <p>Hematocrit rotor 24 x capillaries Angel: 90°</p>	Acceleration in s: 15/119 Deceleration in s: 15/119 max. speed: 12,000 rpm RCF: 14,970 xg max. radius: 9.3 cm					

