

High Speed Microcentrifuge

■ Z216-M

■ Z216-MK



HERMLE
Benchmark 

44 x 2.0 ml

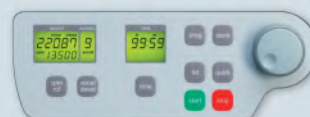
Z216-M Z216-MK



Compact, quiet, and powerful are just a few of the features of the Z216 series microcentrifuges. Add to this, the versatility of eleven available rotor options, and the result is the ideal microcentrifuge for the modern molecular biology laboratory. All common microtubes (0.2ml, 0.5ml, 1.5ml, 2.0ml) can be accepted as well as PCR strips, hematocrit tubes, and even 5.0ml centrifuge tubes. Despite a remarkably small footprint, the Z216 series offers a uniquely designed 44 x 1.5ml dual row rotor, nearly doubling the capacity when compared to traditional microcentrifuges. Select rotors also feature our convenient Quick-Seal™ lid which locks with just a quarter turn. In the Z216-MK model a powerful, compressor driven cooling system maintains temperatures as low as -20°C and is designed to reach 4°C (from room temperature) in less than 10 minutes.

Technical Data

max. Speed:	15000 rpm
max. RCF:	21379 xg
max. volume:	44 x 1.5 / 2.0 ml
Speed range:	200 - 15000 rpm
Temperature range	
Z216-MK:	-20°C to 40°C
Running time:	59 min 50 s / 10 s increments 99 h 59 min / 1 min increments
Dimensions:	
Z216-M:	11 in x 11.5 in x 15.3 in (W x H x D) 28 cm x 29 cm x 39 cm (W x H x D)
Z216-MK:	11 in x 11.5 in x 21.6 in (W x H x D) 28 cm x 29 cm x 55 cm (W x H x D)
Weight:	
Z216-M:	37.5 lbs / 17 kg
Z216-MK:	77 lbs / 35 kg
Power input:	
Z216-M:	280 W
Z216-MK:	560 W
Order numbers:	
Z216-M:	Z216-M, 120 V / 50 - 60 Hz Z216-M-E, 230 V / 50 - 60 Hz
Z216-MK:	Z216-MK, 120 V / 50 - 60 Hz Z216-MK-E, 230 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

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 20000 xg
- Noise level < 60 dBA at 21379 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

Accessories Z 216 M and Z 216 MK

Rotor/Buckets

Order No.:
Z216-2420



Angle rotor 24 x 1.5/2.0 ml
Angle: 45°

Order No.:
Z216-2420H



Angle rotor 24 x 1.5/2.0 ml
Angle: 45° *Hermetically sealed*

Order No.:
Z216-3020H



Angle rotor 30 x 1.5/2.0 ml
Angle: 45°

Order No.:
Z216-4420



Angle rotor 44 x 1.5/2.0 ml
Angle: 32°/55°

Order No.:
Z216-2420S



COMBI-rotor 24 x 1.5/2.0 ml
and 4 x 8-PCR Strips Angle:
32°/55°

Order No.:
Z216-6405



Angle rotor 64 x 0.5 ml
Angle: 40°/55°

Order No.:
Z216-1205



Angle rotor 12 x 5 ml Reaction tubes
Angle: 45°C

Order No.:
Z216-3202



Angle rotor 4 x 8-PCR Strips/32 x .02 ml
Angle: 45°C

Adapter

Acceleration in s: 21/152
Deceleration in s: 18/173
max. speed: 15000 rpm
RCF: 21379 xg
max. radius: 8.5 cm
max. ø: 11 mm
Temp. at max. speed: 4°C

Order No.:	Tube rack	ø (mm)	Length (min./max.)
without	1 x 2.0 ml	11	40
without	1 x 1.5 ml	11	40
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Acceleration in s: 21/151
Deceleration in s: 21/217
max. speed: 15000 rpm
RCF: 21379 xg
max. radius: 8.5 cm
max. ø: 11 mm
Temp. at max. speed: 6°C

Order No.:	Tube rack	ø (mm)	Length (min./max.)
without	1 x 2,0 ml	11	40
without	1 x 1,5 ml	11	40
C1008-A5-6	1 x 0,5 ml	8	45
C1008-A2-6	1 x 0,4/0,2 ml PCR	6	45

Acceleration in s: 29/235
Deceleration in s: 27/258
max. speed: 13500 rpm
RCF: 19151 xg
max. radius: 9.4 cm
max. ø: 11 mm
Temp. at max. speed: 7°C

Order No.:	Tube rack	ø (mm)	Length (min./max.)
without	1 x 2.0 ml	11	40
without	1 x 1.5 ml	11	40
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Acceleration in s: 18/136
Deceleration in s: 17/133
max. speed: 15000 rpm
RCF: 21127 / 21379 xg
max. radius: 8.4 / 8.5 cm
max. ø: 11 mm
Temp. at max. speed: 10°C

Order No.:	Tube rack	ø (mm)	Length (min./max.)
without	1 x 2.0 ml	11	40
without	1 x 1.5 ml	11	40
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Acceleration in s: 18/136
Deceleration in s: 17/133
max. speed: 15000 rpm
RCF: 21127 / 21379 xg
max. radius: 8.4 / 8.5 cm
max. ø: 11 mm
Temp. at max. speed: 10°C

Order No.:	Tube rack	ø (mm)	Length (min./max.)
without	1 x 2.0 ml	11	40
without	1 x 1.5 ml	11	40
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Acceleration in s: 16/136
Deceleration in s: 17/180
max. speed: 13500 rpm
RCF: 16298 / 14261 xg
max. radius: 7.0 / 8.1 cm
max. ø: 8 mm
Temp. at max. speed: 6°C

Order No.:	Tube rack	ø (mm)	Length (min./max.)
without	1 x 0.5 ml	8	45

Acceleration in s: 24/148
Deceleration in s: 17/320
max. speed: 14500 rpm
RCF: 19978 xg
max. radius: 8.5 cm
max. ø: 1,7 mm
Temp. at max. speed: 4°C

Order No.:	Tube rack
Z216-05-C10	1.0 ml Cryo tubes (ø 12,6 x 41 mm) set of adapters (6 pcs.)
Z216-05-C18	1.8 ml Cryo tubes (ø 12,6 x 48 mm) set of adapters (6 pcs.)

Acceleration in s: 17/150
Deceleration in s: 20/95
max. speed: 15000 rpm
RCF: 15343 xg
max. radius: 6.1 cm
max. ø: 6 mm
Temp. at max. speed: 2,5°C

Rotor/Buckets

Order No.:
Z216-1220H
Z216-M ONLY



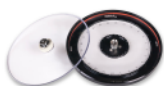
Angle rotor 12 x 1.5/2.0 ml
Angle: Swing out 90°

Adapter

Acceleration in s: 5/30
Deceleration in s: 5/90
max. speed: 9000 rpm
RCF: 7510 xg
max. radius: 8.5 cm
max. ϕ : 11 mm

Order No.:	Tube rack	ϕ (mm)	Length (min./max.)
without	1 x 2.0 ml	11	40
without	1 x 1.5 ml	11	40
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

Order No.:
Z216-24HEM
Z216-M ONLY



Hematocrit rotor 24 x capillaries
Angle: 90°

Acceleration in s: 15/120
Deceleration in s: 15/120
max. speed: 12000 rpm
RCF: 14970 xg
max. radius: 9.3 cm

Order No.:
Z216-24SC
Z216-M ONLY



Angle rotor 24 x Spin Column Kits
Angle: 45°

Acceleration in s: 16/137
Deceleration in s: 12/138
max. speed: 13500 rpm
max RCF: 17317 xg
max. radius: 8.5 cm

Order No.:	Tube rack	ϕ (mm)	Length (min./max.)
C1008-A5-6	1 x 0.5 ml	8	45
C1008-A2-6	1 x 0.4/0.2 ml PCR	6	45

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Z306 Universal Centrifuge



Z287-A Microcentrifuge Plus

www.HermleUSA.com
PH: 908-769-5555
EM: info@benchmarkscientific.com

