

Microcentrifuge Plus

| Z287-A



HERMLE
Benchmark 

■ The Perfect Fit



Easy Handling:

- The ergonomic Touch Operation Function is smooth and fast
- Gloved operation
- HERMLE's unmatched program storage, up to 99
- Quick spin button.
- End of run alarm (this function can be deactivated).
- Time saving safety lid lock

Safety:

- Automatic imbalance shut off system
- Overspeed protection for each rotor type
- Only operates when the centrifuge lid is locked
- Error code system to quickly detect issues
- Automatic rotor identification
- Overheat protection shuts off unit if operating with too much heat

Efficient and Versatile:

- Despite its high capacity, the design of the Z287-A is very compact.
- Temperature protection. Even with continuous use, chamber never raises above 40°C
- Even at 14,000 rpm, the Z287-A is vibration-free with minimal noise output due to its' high stability.
- Sleep Mode: If the centrifuge lid is open and the unit is not in use for more than five minutes, the unit automatically goes into sleep mode (this function can be deactivated).
- Features an LED integrated in the control panel, which uses different colors to indicate the current operating status of the centrifuge.



6 x 50 ml

Z287-A



The Z287-A exceeds the limitations set forth by traditional microcentrifuges which are restricted solely to fixed angle rotors for microtubes. Instead, this compact, next generation model features an expansive line of swing out and fixed angle rotors options that accept microplates and test-tubes up to 50ml. We've designed this centrifuge to be our most compact and economical. A true workhorse for any lab requiring a centrifuge that can accommodate many fields of research. Along with a broad range of available rotor options, the Z287-A introduces a convenient status indicator. Users can easily view the current state of the centrifuge from across the room. The LED illuminates to signify if the rotor is spinning, the run is completed or the centrifuge is idle in standby mode.

Technical Data

| | |
|---------------|---|
| max. speed: | 14,000 rpm |
| max. RCF: | 16,058 xg |
| max. volume: | 6 x 50 ml |
| Speed range: | 200 - 14,000 rpm |
| Running time: | 59 min 50 s / 10 s increments 99 h 59 min / 1 min increments |

| | |
|-------------|--|
| Dimensions: | 13.7 in x 10.2 in x 17 in (W x H x D) 35 cm x 26 cm x 43 cm (W x H x D) |
|-------------|--|

| | |
|---------|----------------|
| Weight: | 40 lbs / 18 kg |
|---------|----------------|

| | |
|---------------|--|
| Order Number: | Z287-A 120 V 50 - 60 Hz / 170 W Z287-A-E 230 V 50-60 Hz / 170 W |
|---------------|--|

Operating state



centrifugation

run completed

standby

Specifications

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Electromagnetic lid lock
- Automatic radio-frequency rotor identification system (RFID) with over speed protection, immediately upon rotor insertion
- Active imbalance-identification and -cut off (rotor specific)
- Rotor exchange is easy to handle
- A large variety of rotors and accessories
- USB interface for software updates via a PC
- Manufactured according to international safety regulations, i.e. IEC 61010.
- Improved ventilation system keeps samples cool

Distinct Control Panel

- Control panel with Touch-Operation
- Simply one-handed operation
- Easy to program with gloves on
- Splash-proof foil keyboard
- Permanent indication of preset and actual values
- Selection of speed in both rpm and g-force, increments of 10
- 10 acceleration and deceleration rates, possibility of unbraked deceleration
- Preselection of the running time, from 10 s to 99 h 59 min
- Storage of up to 99 runs
- Quick-key for short runs
- Color visual representation of the operating state such as run completed, standby or centrifugation



Accessories Z287-A

Rotor/Bucket

Order No.:
Z287-0450H



Swing out rotor 4 x 50 ml
Angle: 0-75°

Order No.:
Z287-0430H



Swing out rotor 4 x 30 ml Universal
Angle: 0-90°

Order No.:
Z287-0810H



Swing out rotor 8 x 10 ml
for blood collection tubes
Angle: 0-90°

Order No.:
Z287-02MP



Swing out rotor 2 x Microtitre plates
Angle: 0-90°

Order No.:
Z287-0650



Angle rotor 6 x 50 ml
Angle: 40°

Order No.:
Z287-1215



Angle rotor 12 x 15 ml
Angle: 32°

Adapter

Acceleration in s: 26/242
Deceleration in s: 33/252
max. speed: 5,000 rpm
RCF-value: 3,633 xg
max. radius: 13.0 cm
max. Ø: 29 mm

| Order No.: | Tube rack |
|-----------------|-------------------|
| without adapter | 1 x 50 ml conical |
| Z326-50-B15 | 1 x 15 ml conical |
| Z326-15-A7* | 1 x 7 ml |
| Z326-15-A5* | 1 x 5 ml |

| Ø [mm] | Length (min./max.): |
|--------|---------------------|
| 29 | 116 |
| 17 | 120 |
| 13.5 | 95/115 |
| 13.5 | 65/90 |

* only possible with adapter Z326-50-B15

Acceleration in s: 26/241
Deceleration in s: 31/250
max. speed: 5,000 rpm
RCF-value: 3,437 xg
max. radius: 12.3 cm
max. Ø: 25 mm

| Order No.: | Tube rack |
|-----------------|-------------------|
| without adapter | 1 x 30 ml skirted |
| without adapter | 1 x 25 ml skirted |

| Ø [mm] | Length (min./max.): |
|--------|---------------------|
| 25 | 95 |
| 25 | 90 |

Acceleration in s: 25/240
Deceleration in s: 32/253
max. speed: 5,000 rpm
RCF-value: 3,717 xg
max. radius: 13.3 cm
max. Ø: 16 mm

| Order No.: | Tube rack |
|--------------|--------------------------|
| Without | 1 x 6-10 ml Vacutainer® |
| Z287-0810-A7 | 1 x 1.8-7 ml Vacutainer® |

| Ø [mm] | Length (min./max.): |
|--------|---------------------|
| 16 | 100 |
| 13 | 75/100 |

Acceleration in s: 27/182
Deceleration in s: 29/193
max. speed: 3,800 rpm
RCF-value: 1,453 xg
max. radius: 9.0 cm
max. loading height: 20 mm
max. loading weight: 100 g

Acceleration in s: 34/293
Deceleration in s: 38/317
max. speed: 6,000 rpm
RCF-value: 4,427 xg
max. radius: 11.0 cm
max. Ø: 29 mm

| Order No.: | Tube rack |
|-----------------|-------------------|
| without adapter | 1 x 50 ml conical |
| without adapter | 1 x 50 ml |
| Z206-50-A15 | 1 x 15 ml conical |
| Z206-50-A57 | 1 x 7 ml |
| Z206-50-A57C* | 1 x 5 ml |

| Ø [mm] | Length (min./max.): |
|--------|---------------------|
| 29 | 116 |
| 29 | 100/120 |
| 17 | 120 |
| 13 | 95/115 |
| 13 | 65/90 |

* With Z206-50-A57

Acceleration in s.: 34/295
Deceleration in s: 38/317
max. speed: 6,000 rpm
RCF-value: 4,427 xg
max. radius: 11.0 cm
max. Ø: 17 mm

| Order No.: | Tube rack |
|-----------------|-------------------|
| without adapter | 1 x 15 ml conical |
| without adapter | 1 x 15 ml glass |
| Z326-15-A7 | 1 x 7 ml |
| Z326-15-A5 | 1 x 5 ml |

| Ø [mm] | Length (min./max.): |
|--------|---------------------|
| 17 | 120 |
| 17 | 105/120 |
| 13 | 95/115 |
| 13 | 65/90 |

Accessories Z287-A

Rotor/Bucket

Order No.:
Z287-0815



Angle rotor 8 x 15 ml / 4 x 15 ml conical
Angle: 33°

Adapter

Acceleration in s: 22/198
Deceleration in s: 23/212
max. speed: 8,000 rpm
RCF-value: 6,153 xg
max. radius: 8.6 cm
max. Ø: 17 mm

| Order No.: | Tube rack | Ø [mm] | Length (min./max.): |
|-----------------|-------------------|--------|---------------------|
| without adapter | 1 x 15 ml conical | 17 | 120 |
| without adapter | 1 x 15 ml glass | 17 | 105/120 |
| Z326-15-A7 | 1 x 7 ml | 13 | 95/115 |
| Z326-15-A5 | 1 x 5 ml | 13 | 65/90 |

Order No.:
Z287-2420



Angle rotor 24 x 1.5 / 2.0 ml
Angle: 45° | hermetically sealed

Acceleration in s: 24/200
Deceleration in s: 20/208
max. speed: 12,000 rpm
RCF-value: 13,683 xg
max. radius: 8.5 cm
max. Ø: 11 mm

| Order No.: | Tube rack | Ø [mm] | Length (min./max.): |
|-----------------|--------------------|--------|---------------------|
| without adapter | 1 x 2.0 ml | 11 | 40 |
| without adapter | 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.:
Z287-24SC



Angle rotor 24 x 2.0 ml
(Spin Column Kits)
Angle: 45°

Acceleration in s: 23/198
Deceleration in s: 27/213
max. speed: 12,000 rpm
RCF-value: 13,683 xg
max. radius: 8.5 cm
max. Ø: 11 mm

| Order No.: | Tube rack | Ø (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 |

Order No.:
Z287-1820



Angle rotor 18 x 1.5 / 2.0 ml
Angle: 45°

Acceleration in s: 19/140
Deceleration in s: 21/145
max. speed: 14,000 rpm
RCF-value: 15,994 xg
max. radius: 7.3 cm
max. Ø: 11 mm

| Order No.: | Tube rack | Ø [mm] | Length (min./max.): |
|-----------------|--------------------|--------|---------------------|
| without adapter | 1 x 2.0 ml | 11 | 40 |
| without adapter | 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.:
Z287-24HEM



Hematocrit rotor 24 x capillaries
Angle: 90°

Acceleration in s: 30/319
Deceleration in s: 33/334
max. speed: 13,000 rpm
RCF-value: 16,058 xg
max. radius: 8.5 cm

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