

# Microcentrifuge Plus

| Z287-A



**HERMLE**  
**Benchmark** 

**Thomas**  
Scientific 

## ■ 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 unbroken 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°

## 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	Ø [mm]	Length (min./max.):
without adapter	1 x 50 ml conical	29	116
Z326-50-B15	1 x 15 ml conical	17	120
Z326-15-A7*	1 x 7 ml	13.5	95/115
Z326-15-A5*	1 x 5 ml	13.5	65/90

\* only possible with adapter Z326-50-B15

Order No.:  
Z287-0430H



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

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	Ø [mm]	Length (min./max.):
without adapter	1 x 30 ml skirted	25	95
without adapter	1 x 25 ml skirted	25	90

Order No.:  
Z287-0810H



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

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	Ø [mm]	Length (min./max.):
Without	1 x 6-10 ml Vacutainer®	16	100
Z326-0810-A7	1 x 1.8-7 ml Vacutainer®	13	75/100

Order No.:  
Z287-02MP



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

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

Order No.:  
Z287-0650



Angle rotor 6 x 50 ml  
Angle: 40°

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	Ø [mm]	Length (min./max.):
without adapter	1 x 50 ml conical	29	116
without adapter	1 x 50 ml	29	100/120
Z206-50-A15	1 x 15 ml conical	17	120
Z206-50-A57	1 x 7 ml	13	95/115
Z206-50-A57C*	1 x 5 ml	13	65/90

\* With Z206-50-A57

Order No.:  
Z287-1215



Angle rotor 12 x 15 ml  
Angle: 32°

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	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



# 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

**Thomas Scientific**



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