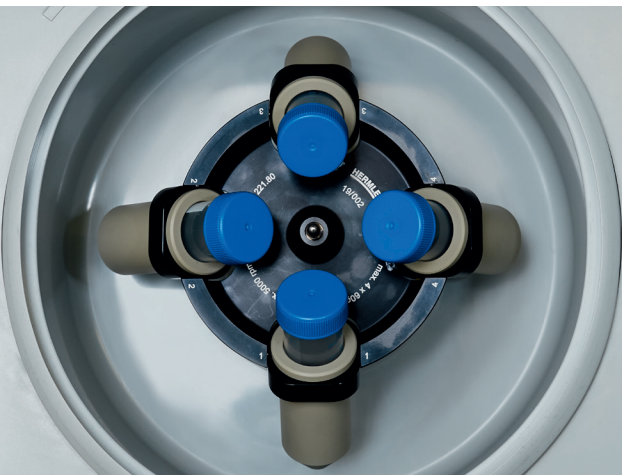


# Universal Centrifuge

| Z 287 A



**HERMLE**  
LABORTECHNIK

# Z 287 A



## 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

The centrifuge Z 287 A is a real allrounder! Provided with eleven different rotors, this unit covers the most common applications. No matter if angle, swing out, plate or hematocrit rotor, you will always find the suitable accessory for your needs. Its appealing design and the innovative control panel with "Touch-operation" function and LED light, which indicates the current operating state, complete the versatility of this model.

## 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:	35 cm x 26 cm x 43 cm (W x H x D)
Weight:	18 kg
Order Number:	327.00 V01 - Z 287 A 230 V / 50 - 60 Hz / 170 W 327.00 V02 - Z 287 A 120 V / 50-60 Hz / 170 W

## Operating state



## 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, in 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 Z 287 A

## Rotor/Bucket

Order No.:  
221.80 V01



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
708.030	1 x 15 ml conical	17	120
708.030	1 x 15 ml Glass	17	105/120
701.011*	1 x 7 ml	13.5	95/115
701.012*	1 x 5 ml	13.5	65/90
701.015*	1 x 1.5/2.0 ml	11	40

\*only possible with adapter 708.030

Order No.:  
221.78 V01



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.:  
221.79 V01



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.):
640.000	1 x 6-10 ml Vacutainer®	16	100
640.001	1 x 1.8-7 ml Vacutainer®	13	75/100
640.000	1 x 9-10 ml Sarstedt®	16	92
640.000	1 x 4-8.2 ml Sarstedt®	15	75/92
640.001	1 x 2.6-4.9 ml Sarstedt®	13	65/90
640.001	1 x 2.7-5 ml Sarstedt®	11	66/92

Order No.:  
221.77 V01



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.:  
221.55 V04



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
708.019	1 x 30 ml	25	92/95
708.003	1 x 16 ml	18	100/105
708.030	1 x 15 ml conical	17	120
708.030	1 x 15 ml	17	97/120
701.011*	1 x 7 ml	13	95/115
701.012*	1 x 5 ml	13	65/90
701.015*	1 x 1.5/2.0 ml	11	40

\*only possible with adapter 708.030

Order No.:  
221.54 V04



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
701.011	1 x 7 ml	13	95/115
701.012	1 x 5 ml	13	65/90
701.015	1 x 1.5/2.0 ml	11	40
701.018	1 x 9 ml Sarstedt®	17	92/107

# Accessories Z 287 A

## Rotor/Bucket

Order No.:  
221.57 V02



Angle rotor 8 x 15 ml  
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
701.011	1 x 7 ml	13	95/115
701.012	1 x 5 ml	13	65/90
701.015	1 x 1.5/2.0 ml	11	40
701.018	1 x 9 ml Sarstedt®	17	92/107

Order No.:  
221.59 V06



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

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
704.005	1 x 0.5 ml	8	45
704.004	1 x 0.4/0.2 ml PCR	6	45

Order No.:  
221.75 V03



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.:  
220.95 V09



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
704.005	1 x 0.5 ml	8	45
704.004	1 x 0.4/0.2 ml PCR	6	45

Order No.:  
221.60 V03



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

Order No.:	Description
620.010	Reading device for determining the hematocrit value in- or outside the rotor
45.5046	Microhematocrit-capillaries, heparinized
45.5047	Microhematocrit-capillaries, non heparinized
41.5100	Hematocrit sealing wax (1 plate)

# The Perfect Fit



## Easy Handling:

- The ergonomic Touch Operation Function enables a smooth and swift operation process
- There is no need to remove surgical gloves, during operation.
- Strictly a HERMLE application, you can store up to 99 different programs.
- For fast centrifugation, there is a quick button option. The Centrifuge spins, as long as you press the button.
- For reassurance that your samples are finished, an acoustic signal will sound, when the centrifugation is complete (this function can be deactivated).
- Due to a fast and easy centrifuge lid lock system, time is saved.

## Safety:

- The Z 287 A has an automatic imbalance shut off system.
- There is over speed protection incorporated for each rotor.
- You can only start the model when the centrifuge lid is closed.
- In case of operation malfunction, an error code will appear on the display. This helps to indicate the reason for the malfunction and to eliminate it.
- The centrifuge automatically detects which rotor is used. This prevents incorrect rotor settings.
- In case of overheating, the centrifuge switches off automatically. This serves to protect electronic components and thus promotes the longevity of the device.

## Efficient and Versatile:

- Despite the high capacity, the design of this model is very compact.
- For safety of your samples: Even after a long centrifugation run, the temperature of your samples remains under 40°C.
- Even with the high speed output of 14,000 rpm the working environment is vibration-free with minimal noise output due to its' high stability.
- Sleep mode Function: 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).
- There is an LED integrated in the control panel, which uses different colors to indicate the current operating status of the centrifuge.

More from HERMLE –  
a wide range of options



**Universal Centrifuge Z 306**

Max. speed 14,000 rpm  
Max. volume 4 x 145 ml



**Universal Centrifuge Z 446 K**

Max. speed 16,000 rpm  
Max. volume 4 x 750 ml

■ For more information, please visit our website!

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