

Z 383 ■ Z 338 K High Performance Centrifuge

Z383 Series
High Performance
Centrifuge



HERMLE
Labnet

Z 383 ■ Z 383K Series

Z 383 and Refrigerated Z 383 K

The Z 383 series accepts tubes up to 500 ml in a variety of swing out and angle rotors. In addition, the centrifuges accommodate a variety of high speed angle rotors for tubes up to 85 ml. High speed capabilities and large capacity rotors make the Z 383 and Z 383 K the ultimate in intelligent centrifuges.

The Z 383 series operating system is based on advanced, easy to use microprocessor control and rotor recognition. Feedback systems automatically limit each rotor to its rated maximum speed. In the event of an improperly loaded rotor, the imbalance detector will stop operation of the centrifuge. A centrifugal radius correction function compensates for various tubes, adapters and inserts so that an extremely accurate g-value is calculated and displayed. The hybrid control panel combines modern microprocessor control and easy turn knobs. All parameters are entered with knobs while their values are displayed digitally. Repetitive runs are simple - just press the start key. Up to ten programs can be stored in memory and recalled.

The brushless induction drives in these centrifuges are powerful, yet extremely quiet. The motors accelerate all rotors to speed quickly. Braking level is fully adjustable.

A powerful refrigeration system in the Z 383 K maintains all rotors at or below 4°C, even at maximum speed. The pre-cool function cools the rotor and centrifuge before a run to protect temperature sensitive samples.

- Maximum speed 17,000 rpm/26,810 x g with microtube rotor
- High capacity - 4 x 500 ml and 28 x 50 ml
- High speed rotors for 85, 50 and 30 ml tubes, up to 25,900 x g
- Microprocessor control with g-force conversion, rotor ID and program memory
- Multiple swing out and angle rotors for tube, plates and aerosol containment



SPECIFICATIONS

Speed Range:	250 rpm tp 17,000 rpm
Maximum RCF:	26,810 x g
Maximum Capacity:	4 x 500ml
Timer:	1 to 60 min. or continuous
Temperature:	-10°C to +40°C
Dimenions:	
Z383	48 X 60 X 38cm / 18.9 x 23.6 x 14.7in
Z383-K	75 x 60 x 38cm / 29.5 x 23.6 x 14.7in

Accessories

Swing-out rotors / carriers / adapters

C0383-75



Max Capacity: 4 x 500ml
4,500 rpm / 4,210 x g
Centrifugal Radius: 18.6cm

Tube inserts for C0383-75 Rotor

Tube Size	Item no.	Tubes/Rotor
500 ml	C-0383-75D	4
250 ml	C-0383-75E	4
50 ml conical	C-0383-75B	20
50 ml conical	C-0383-75C*	28
15 ml conical	C-0383-75A	48
10 ml (16 x 100 mm)	C-0383-75F	52
7 ml (13 x 100 mm)	C-0383-75G	76
5 ml (12 x 75 mm)	C-0383-75G	76
Aerosol cover	C-0383-75L	-
Microplate Carrier (2x3)	C-0383-75H	4

Four carriers required per rotor.

*Cannot be used with aerosol cover.

C0383-34



Max Capacity: 8 x 50ml
9,200 rpm / 10,409 x g
Centrifugal Radius: 11cm

Tube inserts for C0383-34

Tube Size	Item no.	
50ml	C0300-120	8
50ml conical	C0300-121	8
15ml conical	C0300-122	8
15 ml	C0300-123	16
1.5 m	C0300-124	88
5ml	C0300-120	48

Economy Swing-out rotors

C0400-15



Max Capacity: 20 x 15ml
3,500 rpm / 2,561 x g
Centrifugal Radius: 18.7cm

C0400-50



Max Capacity: 8 x 50ml
3,500 rpm / 2,520 x g
Centrifugal Radius: 18.4cm

Accessories

Microplate Rotors

C0382-50



Max Capacity: 2 x 3microplates
3,500 rpm / 1,500 x g
Centrifugal Radius: 11cm

C0300-16



Max Capacity: 2 x 3microplates
4,500 rpm / 2,762 x g
Centrifugal Radius: 12.2cm

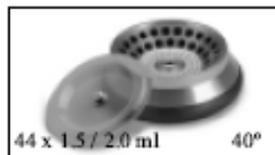
Fixed Angle Rotors, Micro



Order number: C-0252-87

Maximum speed: 17,000rpm
RCF value: 26,810 x g
Centrifugal radius: 8.3 cm

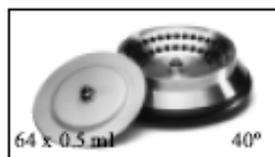
1.5/2.0 ml microtube (Ø 11 x 42 mm) No adapter needed
Adapters for 0.5 ml tubes, set of 6 C-1205
Adapters for 0.25 and 0.4 ml tubes, set of 6 C-1206
Adapters for 0.2 ml thermal cycling tubes, set of 6 C-1222



Order number: C-0252-9

Maximum speed: 13,500rpm
RCF value: 17,110 x g
Centrifugal radius: 8.4 cm

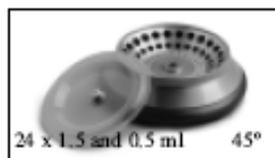
1.0/2.0 ml microtube (Ø 11 x 42 mm) No adapter needed
Adapters for 0.5 ml tubes, set of 6 C-1205
Adapters for 0.25 and 0.4 ml tubes, set of 6 C-1206
Adapters for 0.2 ml thermal cycling tubes, set of 6 C-1222



Order number: C-0252-43

Maximum speed: 13,500rpm
RCF value: 16,700 x g
Centrifugal radius: 8.2 cm

0.5/0.6 ml microtubes (Ø 8 x 32 mm) No adapter needed



Order number: C-0252-55

Maximum speed: 13,500rpm
RCF value: 17,110 x g
Centrifugal radius: 8.4 cm

0.5/0.6 ml and 1.5/2.0 ml microtubes No adapter needed
Adapters for 0.5 ml tubes, set of 6 C-1205
Adapters for 0.25 and 0.4 ml tubes, set of 6 C-1206
Adapters for 0.2 ml thermal cycling tubes, set of 6 C-1222
Adapters for use in 1.5/2.0 ml spaces only



Order number: C-0252-20

Maximum speed: 13,500rpm
RCF value: 16,708 x g
Centrifugal radius: 8.2 cm

2.0 ml cryovials (12.5 x 48 mm) No adapter needed

Not for use in Z 300 series.

Accessories

Fixed Angle Rotors



Order number: C-0323-81

Maximum speed: 3500rpm
RCF value: 2000 x g
Centrifugal radius: 14.6 cm

10 to 15 ml, round or conical Ø16-17.5 x 112 mm
7 ml insert (Ø 13 x 100 mm)
5 ml insert (Ø 10-12 x 75 mm)
1.5 ml insert (Ø 11 x 42 mm)

No insert needed
C-0230-19
C-0230-17
C-0230-20



Order number: C-0252-85

Maximum speed/RCF: 13,500rpm
RCF value: 19,960 x g
Centrifugal radius: 9.8 cm

12 ml, (Ø 16 x 98 to 109 mm)
10 ml insert (Ø 16 x 80 mm)

No insert needed
C-0252-85A

Not for use in Z 300 series.



Order number: C-0382-76

Maximum speed/RCF: 13,500rpm
RCF value: 19,960 x g
Centrifugal radius: 10.3 cm

30 ml (Ø 25 x 90 to 106 mm)
16 ml insert (Ø 18 x 97 to 103 mm)
15 ml insert (Ø 17 x 97 to 103 mm)

No insert needed
C-0360-76C
C-0360-76A

Not for use in Z 300 series.



Order number: C-0382-91

Maximum speed: 13,500rpm
RCF value: 19,960 x g
Centrifugal radius: 9.5 cm

50 ml round (Ø 28.5 x 92 to 107 mm)
30 ml insert (Ø 25 x 105 mm)
30 ml insert (Ø 25 x 92 to 95 mm)
16 ml insert (Ø 18 x 105 mm)
15 ml insert (Ø 17 x 105 mm)
15 ml insert (Ø 17 x 100 mm)

No insert needed
C-0360-91B
C-0360-91C
C-0360-91A
C-0360-91D
C-0360-91Y

Not for use in Z 300 series.



Order number: C-0382-78

Maximum speed: 13,500rpm
RCF value: 20,980 x g
Centrifugal radius: 10.3 cm

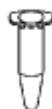
85 ml (Ø 38 x 113 mm)
50 ml conical (Ø 29 x 116 mm)
50 ml round (Ø 28.5 x 105 mm)
30 ml (Ø 25 x 90 to 103 mm)

No insert needed
C-0360-94D
C-0360-94A
C-0360-94B

Not for use in Z 300 series.

Accessories

Centrifuge Tube Guide



1.5 ml
(11 x 42 mm)



5 ml
(12 x 75 mm)



7 ml
(13 x 100 mm)



10 - 15 ml
(16 x 100 mm)



15 ml conical
(17 x 120 mm)



30 ml high speed
(25.5 x 92 mm)



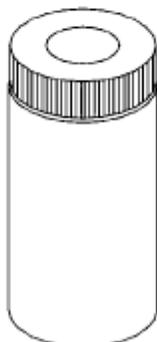
50 ml high speed
(28.5 x 104mm)



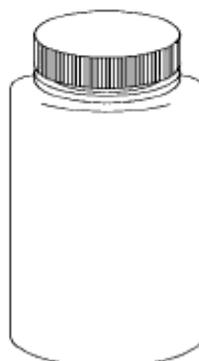
50 ml conical
(29 x 115 mm)



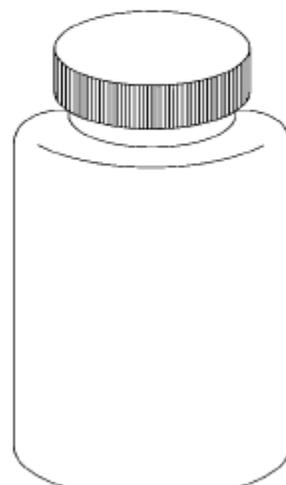
85 ml high speed
(38 x 101 mm)



250 ml
(60 x 124 mm)



500 ml
(80 x 125 mm)



1000 ml
(97 x 170 mm)