

# Z 400 ■ Z 400 K Universal Laboratory Centrifuge

Z400 Series  
Universal Centrifuges

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HERMLE  
**Labnet** 

# Z 400 ■ Z 400K Series

## Z 400 and Refrigerated Z 400 K

Multiple swing-out and angle rotor options make the Z 400 series centrifuges useful for a wide range of applications from molecular and cellular biology to microplate technology and blood separations.

The microprocessor based controls are designed for quick and easy programming. Parameters are set with knobs while their values are shown on large digital displays. To prevent accidental change, the knobs are inactivated during a run unless the preset key is depressed.

Both the Z 400 and Z 400 K feature maintenance-free, induction drives for exceptionally quiet and smooth operation. Safety features include an electronic lid lock, imbalance sensors and a rotor recognition program that automatically limits each rotor to its maximum rated speed. G-force conversion software allows for setting and display of speed in rpm or RCF. Acceleration and deceleration rates can be set at fast or slow.

A continuous flow of ambient air through the rotor chamber of the Z 400 prevents sample temperature from rising significantly above ambient, even during extended runs. The powerful refrigeration system in the Z 400 K can maintain all of the available rotors at or below 4°C, even at maximum speed.



- Maximum speed 13,500 rpm/17,310 x g with microtube rotor
- High capacity swing out rotors - up to 4 x 500 ml and 28 x 50 ml
- Multiple swing out and angle rotor options for tubes, plates and aerosol containment
- Microprocessor control with g-force conversion, rotor ID and program memory

### SPECIFICATIONS

|                   |   |
|-------------------|---|
| Speed Range:      | 250 rpm tp 13,500 rpm                     |
| Maximum RCF:      | 17,310 x g                                |
| Maximum Capacity: | 4 x 500ml                                 |
| Timer:            | 1 to 60 min. or continuous                |
| Temperature:      | -10°C to +40°C                            |
| Dimenions:        |   |
| Z400              | 41 X 56.5 X 37.5cm / 16.1 x 22.2 x 14.8in |
| Z400-K            | 74 x 58 x 34cm / 29.1 x 22.8 x 13.4in     |

# Accessories

## Swing-out rotors / carriers / adapters

### C0383-75



**Max Capacity: 4 x 500ml**  
**3,500 rpm / 2,547 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.

## Economy Swing-out rotors

### C0400-15



**Max Capacity: 20 x 15ml**  
**3,500 rpm / 2,561 x g**  
**Centrifugal Radius: 18.4cm**

### C0400-50



**Max Capacity: 8 x 15ml**  
**3,500 rpm / 2,520 x g**  
**Centrifugal Radius: 18.7cm**

# 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: 13,500rpm  
RCF value: 17,110 x g  
Centrifugal radius: 8.3 cm

1.5/2.0 ml microtube (Ø 11 x 42 mm)

Adapters for 0.5 ml tubes, set of 6

Adapters for 0.25 and 0.4 ml tubes, set of 6

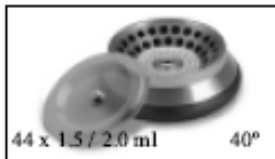
Adapters for 0.2 ml thermal cycling tubes, set of 6

No adapter needed

C-1205

C-1206

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)

Adapters for 0.5 ml tubes, set of 6

Adapters for 0.25 and 0.4 ml tubes, set of 6

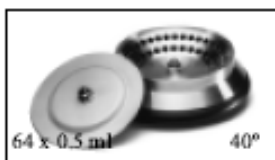
Adapters for 0.2 ml thermal cycling tubes, set of 6

No adapter needed

C-1205

C-1206

C-1222

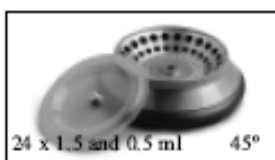


Order number: C-0252-43

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

Adapters for 0.5 ml tubes, set of 6

Adapters for 0.25 and 0.4 ml tubes, set of 6

Adapters for 0.2 ml thermal cycling tubes, set of 6

No adapter needed

C-1205

C-1206

C-1222

Adapters for use in 1.5/2.0 ml spaces only

# 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-0300-96

Maximum speed: 6000rpm  
RCF value: 4306 x g  
Centrifugal radius: 10.7 cm

15 ml conical (Ø17.5 x 112 mm)  
10 to 15 ml insert (Ø16 to 17 x 100 mm)  
7 ml insert (Ø 13 x 100 mm)  
5 ml insert (Ø 10 to 12 x 75 mm)  
1.5 ml insert (Ø 11 x 42 mm)

No insert needed  
C-0200-10  
C-0230-19  
C-0230-17  
C-0230-20



Order number: C-0300-97

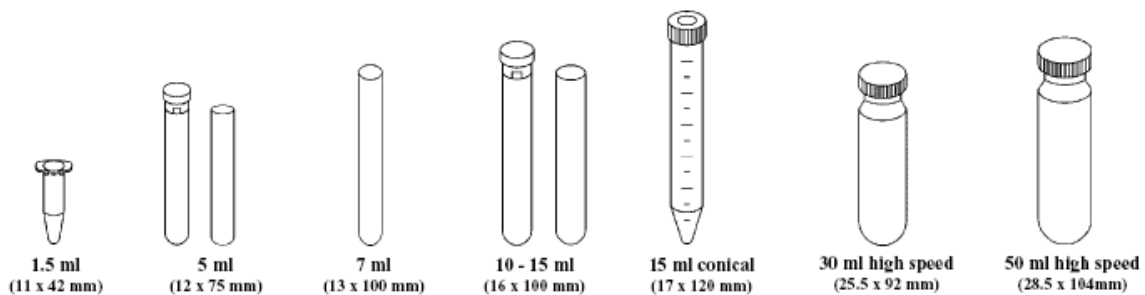
Maximum speed: 6000rpm  
RCF value: 3863 x g  
Centrifugal radius: 9.6 cm

50 ml conical (Ø30 x 116 mm)  
15 ml conical bottom insert (Ø 17.5 x 112 mm)  
15 ml round bottom insert (Ø 16 to 17 x 100 mm)

No adapter needed  
C0232-8  
C0232-8A

Inserts C0230-17, -19 and -20 (see above) can be used inside C0232-8

## 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)