

UNIVERSAL CENTRIFUGES

4 x 750 ml

Z 446 | Z 446 K

These compact tabletop centrifuges achieve a throughput of up to 68 x 15 ml conical tubes at a max. RCF of 3,434 / 4,346 xg. If higher speeds are required, alternative solutions are available, including fixed-angle rotors with a max. RCF of 16,022 xg for 10 x 50 ml.



TECHNICAL SPECIFICATIONS

MAX. SPEED	16,000 / 16,000 rpm
MAX. RCF	24,325 / 26,328 xg
MAX. VOLUME	4 x 750 ml
SPEED RANGE	200 – 16,000 rpm
TEMPERATURE RANGE Z 446 K	-20°C to 40°C
RUNNING TIME	59 min 50s / 10s increments or 99 h 59 min / 1 min increments
DIMENSIONS (W X H X D)	Z 446: 54 cm x 39 cm x 67 cm Z 446 K: 73 cm x 39 cm x 67 cm
WEIGHT	Z 446: 79 kg Z 446 K: 111 kg

ORDER NUMBERS

Z 446: 316.00 V01 – Z 446, 230 V / 50 – 60 Hz / 640 W

Z 446 K: 317.00 V01 – Z 446 K, 230 V / 50 – 60 Hz / 1630 W

SPECIFICATIONS

- Maintenance-free induction drive
- Microprocessor control with LCD display
- Motor driven lid lock
- Automatic radio-frequency rotor identification system (RFID) with over speed protection, immediately upon rotor insertion
- Active imbalance detection and shutdown
- Wide range of rotors and accessories
- CFC-free refrigeration system
- Manufactured in accordance with international safety guidelines, e.g. IEC 61010
- Acoustic signal during operation – with adjustable melody and volume
- Noise level < 65 dBA (rotor-dependent)
- Easy rotor change
- Specially designed airflow keeps the samples cool (Z 446)
- Stainless steel chamber
- Timer function: the centrifuge starts at the pre-set time

ROTORS

MAX. VOLUME	MAX. SPEED	RCF VALUE	ORDER NUMBER	ANGLE
4 x 750 ml*	4,000/4,500 rpm	3,434/4,346 xg	221.36 V20	0 – 90°
4 x 500 ml	4,500 rpm	4,210 xg	221.08 V20	0 – 90°
4 x 500 ml	8,000 rpm	10,374 xg	221.51 V20	24°
6 x 250 ml	8,000 rpm	10,016 xg	221.21 V20	28°
4 x 250 ml	4,500/5,000 rpm	3,894/4,807 xg	220.86 V20	0 – 90°
6 x 85 ml	11,000/13,000 rpm	15,555/21,726 xg	221.18 V20	38°
10 x 50 ml conical	10,000/10,500 rpm	14,532/16,022 xg	221.52 V20	38°
4 x 85 ml	15,000/16,000 rpm	23,140/26,328 xg	221.20 V20	30°
6 x 50 ml	13,000 rpm	15,869 xg	221.22 V20	26°
20 x 10 ml	12,000 rpm	15,775 xg	221.28 V20	30°
44 x 1.5/2.0 ml	16,000 rpm	24,038/24,325 xg	221.68 V20	32°/55°
30 x 1.5/2.0 ml	15,000 rpm	23,643 xg	221.17 V20	45°
24 x 1.5/2.0 ml	16,000 rpm	24,325 xg	220.87 V21	45°
24 x 1.5/2.0 ml*	16,000 rpm	24,325 xg	221.87 V20	45°
2 x 3 MTP	4,500 rpm	2,716 xg	221.16 V20	0 – 90°
4 x 8-PCR strips	15,000 rpm	15,343 xg	221.38 V20	45°

* hermetically sealed

EXAMPLE ROTORS

Main rotor



Max. volume: 4 x 750 ml
Order number: 221.36 V20
hermetically sealed



Max. volume: 4 x 500 ml
Order number: 221.51 V20



Max. volume: 2 x 3 Microtitre plates
Order number: 221.16 V20



Max. volume: 6 x 85 ml
Order number: 221.18 V20



Max. volume: 10 x 50 ml conical
Order number: 221.52 V20



Max. volume: 24 x 1.5/2.0 ml
Order number: 220.87 V20 | Hermetically sealed

The respective max. capacities of the rotors are shown in the tables. Naturally, adapters are available for smaller volumes. Detailed information can be found on our homepage www.bilmар.com.tr
If you cannot find the required adapter, we will gladly make a custom adapter for you.