

ESCO VERSATI™ MICRO CENTRIFUGES

MCV-88 - Ventilated • MCR-88 - Refrigerated
24 capillaries • 44 x 1.5/2.0 ml

Esco micro centrifuge models— MCV (ventilated) and MCR (refrigerated) stand out with exceptional features and versatility. Both have maximum speed of 15,000 rpm (21,380 x g), maximum volume capacity of 44 x 1.5/ 2.0 ml, and can accommodate 12 x 5 ml reaction tubes or 4 x 8 PCR strips per run. Additionally, our micro ventilated centrifuge has a hematocrit rotor which can accommodate 24 capillaries per run. Esco Versati™ centrifuges' compact design saves space in your lab and its low noise performance is preferred in any working area. The refrigerated model's powerful refrigeration system keeps samples at a temperature of as low as 4°C during a continuous run at 21,380 x g.

FEATURES

- Maintenance-free brushless motor
- ISOCIDE™ antimicrobial coating
- Genuine-Protec™ safety lid
- V-balance™ weight imbalance protection
- Versati™ microprocessor control system
- High temperature control range (refrigerated model)
- Large storage space
- Audio & visual notification system
- Overspeed protection
- Over temperature protection
- Automatic switch of temperature types
- Automatic conversion of rpm and rcf
- Various operation mode: short, continuous, time-setting
- Real time modification of parameter

ITEM NUMBERS

MCV-88: 2220001 MCV-88-8, 230 VAC, 50/60 Hz
2220002 MCV-88-9, 120 VAC, 50/60 Hz

MCR-88: 2220003 MCR-88-8, 230 VAC, 50/60 Hz
2220004 MCR-88-9, 120 VAC, 50/60 Hz

TECHNICAL SPECIFICATIONS



MCV-88

Max. Speed	15,000 rpm
Max. RCF	21,380 x g
Max. Volume	44 x 1.5/2.0 ml
Speed Range	200-15,000 rpm
Acceleration/Deceleration Rate	10/10
Program Storage	99
Running Time	99 hr 59 min 10 sec
Temperature Range	Ambient
Dimensions (WxDxH)	280 x 389 x 304 mm
Weight	17 kg (37 lbs)



MCR-88

Max. Speed	15,000 rpm
Max. RCF	21,380 x g
Max. Volume	44 x 1.5/2.0 ml
Speed Range	200-15,000 rpm
Acceleration/Deceleration Rate	10/10
Program Storage	99
Running Time	99 hr 59 min 10 sec
Temperature Range	-20°C to 40°C
Dimensions (WxDxH)	280 x 563 x 294 mm
Weight	35 kg (77 lbs)

ITEM NO: 1380005

VST-ROT-001
Fixed-angle: 24 x 1.5/2.0 ml
Angle: 45°

Acceleration: 21/152 s
Deceleration: 18/173 s
Max. Speed: 15,000 rpm
Max. RCF: 21,380 x g
Max. Radius: 8.5 cm
Temp at Max. Speed: 6°C

ADAPTERS

ITEM NO.	TUBE SIZE / TYPE	ø (mm)	Length in mm (min./max.)
no adapter	1 x 1.5/2.0 ml conical	11	40
1380013	1 x 0.5 ml conical	8	45
1380014	1 x 0.2/0.4 ml PCR	6	45

ITEM NO: 1380006

***VST-ROT-002**
Fixed-angle: 24 x 1.5/2.0 ml
Angle: 45°

Acceleration: 21/151 s
Deceleration: 21/217 s
Max. Speed: 15,000 rpm
Max. RCF: 21,380 x g
Max. Radius: 8.5 cm
Temp at Max. Speed: 4°C

ADAPTERS

ITEM NO.	TUBE SIZE / TYPE	ø (mm)	Length in mm (min./max.)
no adapter	1 x 1.5/2.0 ml conical	11	40
1380013	1 x 0.5 ml conical	8	45
1380014	1 x 0.2/0.4 ml PCR	6	45

ITEM NO: 1380007

VST-ROT-003
Fixed-angle: 30 x 1.5/2.0 ml
Angle: 45°

Acceleration: 29/235 s
Deceleration: 27/258 s
Max. Speed: 13,500 rpm
Max. RCF: 19,151 x g
Max. Radius: 9.4 cm
Temp at Max. Speed: 7°C

ADAPTERS

ITEM NO.	TUBE SIZE / TYPE	ø (mm)	Length in mm (min./max.)
no adapter	1 x 1.5/2.0 ml conical	11	40
1380013	1 x 0.5 ml conical	8	45
1380014	1 x 0.2/0.4 ml PCR	6	45

ITEM NO: 1380008

VST-ROT-004
Fixed-angle: 44 x 1.5/2.0 ml
Angle: 32°/55°

Acceleration: 18/136 s
Deceleration: 17/133 s
Max. Speed: 13,500 rpm
Max. RCF: 17,113 x g/17,317 x g
Max. Radius: 8.4 cm/8.5 cm
Temp at Max. Speed: 7°C

ADAPTERS

ITEM NO.	TUBE SIZE / TYPE	ø (mm)	Length in mm (min./max.)
no adapter	1 x 1.5/2.0 ml conical	11	40
1380013	1 x 0.5 ml conical	8	45
1380014	1 x 0.2/0.4 ml PCR	6	45

ITEM NO: 1380009

VST-ROT-006
Fixed-angle: 12 x 5 ml
Angle: 45°

Acceleration: 24/148 s
Deceleration: 17/320 s
Max. Speed: 14,500 rpm
Max. RCF: 19,978 x g
Max. Radius: 8.5 cm
Temp at Max. Speed: 4°C

ADAPTERS

ITEM NO.	TUBE SIZE / TYPE	ø (mm)	Length in mm (min./max.)
no adapter	1 x 5 ml conical	17	60
1380015	1 x 1.5/2.0 ml conical	11	42
1380016	1 x 1.0 ml flat cryo	12.6	41
1380017	1 x 1.8 ml dome cryo	12.6	48

ITEM NO: 1380011

VST-ROT-007
Fixed-angle: 4 x 8 (0.2 ml)
Angle: 45°

Acceleration: 17/150 s
Deceleration: 20/95 s
Max. Speed: 15,000 rpm
Max. RCF: 15,343 x g
Max. Radius: 8.5 cm
Temp at Max. Speed: 4°C

ADAPTERS

ITEM NO.	TUBE SIZE / TYPE	ø (mm)	Length in mm (min./max.)
no adapter	0.2 ml strips	6	-

ITEM NO: 1380012

****VST-ROT-008**
Hematocrit rotor:
24 capillaries
Angle: 90°

Acceleration: 15/120 s
Deceleration: 15/120 s
Max. Speed: 12,000 rpm
Max. RCF: 14,970 x g
Max. Radius: 9.3 cm
Temp at Max. Speed: 4°C

ADAPTERS

ITEM NO.	TUBE SIZE / TYPE	ø (mm)	Length in mm (min./max.)
no adapter	Capillary	1.6	75

*TÜV Nord Bioseal Certified Rotor
**Available only in MCV