

Versati™

Rotors and Adapters for Centrifuges



Versati™ Tabletop Centrifuge Models: TCV-1500 and TCR-1500



Versati™ Micro Centrifuge Models: MCV-88 and MCR-88



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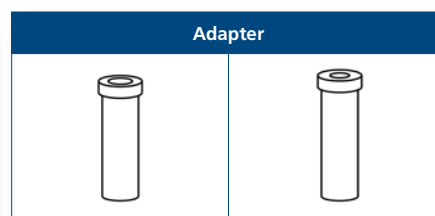
Rotors and Adapters for Centrifuges MCV and MCR

FIXED-ANGLE ROTOR	
Model No.	VST - ROT - 101
Item Code	1380204
Number of Tubes and Tube Capacity	24 x 1.5 / 2.0 ml
Tube type (without adapter)	Conical/ Dome
Acceleration	21 - 152 seconds
Deceleration	18 - 173 seconds
Length	40 mm (1.6")
Angle	45°
Maximum Radius	85 mm (3.4")
Maximum Bore	11 mm $\varnothing$ (0.4" $\varnothing$)
Maximum RCF	21380 x g
Maximum Speed	15000 rpm
Temperature at Maximum Speed	4°C



- Has available adapters for 0.5 ml, and 0.2 / 0.4 ml PCR tubes.
- Rotor, lid, and adapters are autoclavable (maximum of 121°C, 20 minutes).
- TÜV NORD Bioseal Certified Rotor

Adapter Model No.	VST - ADP - 001	VST - ADP - 002
Item Code	1380013	1380014
Number of Tubes and Tube Capacity	1 x 0.5 ml	1 x 0.4 / 0.2 ml PCR
Tube type (inside the adapter)	Conical	
Adapter type	Flat	
Total Number of Tubes per Rotor	24	
Adapter Bore	8 mm $\varnothing$ (0.3" $\varnothing$)	6 mm $\varnothing$ (0.2" $\varnothing$)
Tube Length	45 mm (1.8")	

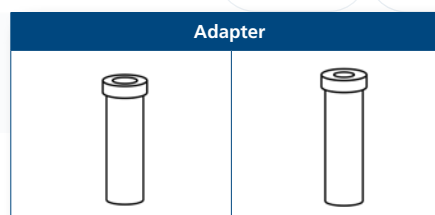


FIXED-ANGLE ROTOR	
Model No.	VST - ROT - 003
Item Code	1380007
Number of Tubes and Tube Capacity	30 x 1.5 / 2.0 ml
Tube type (without adapter)	Conical/ Dome
Acceleration	29 - 235 seconds
Deceleration	27 - 258 seconds
Length	11 mm (0.4")
Angle	45°
Maximum Radius	94 mm (3.7")
Maximum Bore	11 mm $\varnothing$ (0.43" $\varnothing$)
Maximum RCF	19151 x g
Maximum Speed	13500 rpm
Temperature at Maximum Speed	7°C



- Has available adapters for 0.5 ml, and 0.2 / 0.4 ml PCR tubes.
- Rotor, lid, and adapters are autoclavable (maximum of 121°C, 20 minutes)

Adapter Model No.	VST - ADP - 001	VST - ADP - 002
Item Code	1380013	1380014
Number of Tubes and Tube Capacity	1 x 0.5 ml	1 x 0.4 / 0.2 ml PCR
Tube type (inside the adapter)	Conical	
Adapter type	Flat	
Total Number of Tubes per Rotor	24	
Adapter Bore	8 mm $\varnothing$ (0.3" $\varnothing$)	6 mm $\varnothing$ (0.2" $\varnothing$)
Tube Length	45 mm	

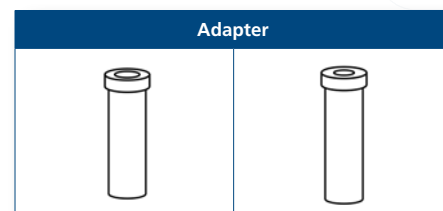


FIXED-ANGLE ROTOR	
Model No.	VST-ROT-004
Item Code	1380008
Number of Tubes and Tube Capacity	44 x 1.5 / 2.0 ml
Tube type (without adapter)	Conical/ Dome
Acceleration	18 - 136 seconds
Deceleration	17 - 133 seconds
Length	11 mm (0.43")
Angle	32° / 55°
Maximum Radius	84 mm (3.30") outer slots / 85 mm (3.34") inner slots
Maximum Bore	11 mm $\varnothing$ (0.43" $\varnothing$)
Maximum RCF	17113 x g (outer slots) / 17317 x g (inner slots)
Maximum Speed	13500 rpm
Temperature at Maximum Speed	7°C



- Has available adapters for 0.5 ml, and 0.2 / 0.4 ml PCR tubes.
- Rotor, lid, and adapters are autoclavable (maximum of 121°C, 20 minutes).

Adapter Model No.	VST - ADP - 001	VST - ADP - 002
Item code	1380013	1380014
Number of Tubes and Tube Capacity	1 x 0.5 ml	1 x 0.4 / 0.2 ml PCR
Tube type (inside the adapter)	Conical	
Adapter type	Flat	
Total Number of Tubes per Rotor	24	
Adapter Bore	8 mm $\varnothing$ (0.3" $\varnothing$)	6 mm $\varnothing$ (0.2" $\varnothing$)
Tube Length	45 mm	

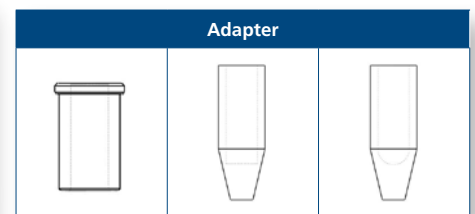


FIXED-ANGLE ROTOR	
Model No.	VST - ROT - 006
Item Code	1380010
Number of Tubes and Tube Capacity	12 x 5 ml
Tube type (without adapter)	Conical
Acceleration	24 - 148 seconds
Deceleration	17 - 320 seconds
Length	60 mm (2.4")
Angle	45°
Maximum Radius	85 mm (3.3")
Maximum Bore	17 mm $\varnothing$ (0.07" $\varnothing$)
Maximum RCF	19978 x g
Maximum Speed	14500 rpm
Temperature at Maximum Speed	4 °C



- Has the largest sample capacity for Versati™ micro centrifuges.
- Has available adapters for 1.0 ml flat cryo tube, 1.8 ml round cryo tube, and 1.5 / 2.0 ml micro tube.
- Rotor, lid, and adapters are autoclavable (maximum of 121°C, 20 minutes).

Adapter Model No.	VST - ADP - 003	VST - ADP - 004	VST - ADP - 005
Item code	1380015	1380016	1380017
Number of Tubes and Tube Capacity	1 x 1.5/ 2.0 ml	1 x 1.0 ml	1 x 1.8 ml
Tube type (inside the adapter)	Conical/ Dome	Flat cryo tube	Dome cryo tube
Adapter type	Holed	Conical	
Total Number of Tubes per Rotor	12		
Adapter Bore	11 mm ø (0.43"ø)	12.6 mm ø (0.5"ø)	
Tube Length	42 mm (1.7")	41 mm (1.6")	48 mm (1.9")



FIXED-ANGLE ROTOR	
Model No.	VST - ROT - 007
Item Code	1380011
PCR Strips	4 x 8 (0.2 ml)
Acceleration	17 - 150 seconds
Deceleration	20 - 95 seconds
Angle	45°
Maximum Radius	61 mm (2.4")
Maximum Bore	6 mm $\varnothing$ (0.2" $\varnothing$)
Maximum RCF	15343 x g
Maximum Speed	15000 rpm
Temperature at Maximum Speed	5°C



- Suitable with 4 x 8 PCR strips; no adapter.
- Rotor and lid are autoclavable (maximum of 121°C, 20 minutes).

HEMATOCRIT ROTOR	
Model No.	VST - ROT - 008
Item Code	1380012
Capillaries	24
Acceleration	15 - 120 seconds
Deceleration	15 - 120 seconds
Angle	90°
Maximum Radius	93 mm (3.7")
Capillary Tube Dimension ($\varnothing$ x Length)	1.6 x 75 mm
Maximum RCF	14970 x g
Maximum Speed	12000 rpm



- Ideal for medical field in the determination of Hematocrit value.
- Only available to micro ventilated centrifuge (MCV).
- Rotor and lid are autoclavable (maximum of 121°C, 20 minutes).

Model No.	VST - ACS - 005
Item Code	1380075
Description	Reading device for hematocrit value

Rotors and Adapters for Centrifuges TCV and TCR

SWING-BUCKET ROTOR	
Model No.	VST - ROT - 009
Item Code	1380022
Rotor Max. Capacity	4 x 250 ml
Bucket type	Circular flat-bottom
Acceleration	34 - 309 seconds
Deceleration	36 - 458 seconds
Angle	0-90°
Maximum Radius	167 mm (6.6")
Maximum RCF	3780 x g
Maximum Speed	4500 rpm
Temperature at Maximum Speed	-2°C



- 4 x 250 ml bucket with flexible adapters for bulk sample testing.
- Has available screw cap.
- Ideal for medical and biotechnology laboratories
- Rotor, buckets, and screw caps are autoclavable (maximum 121°C, 20 minutes).

PC - SCREW CAP	
Model No.	VST - ACS - 009
Item Code	1380079



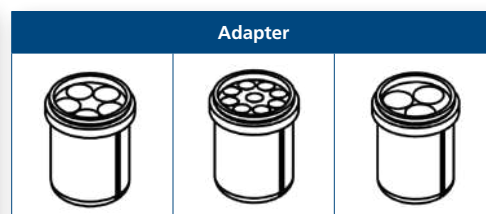
- Screw cap made of Polycarbonate (PC) for VST-ADP-006 to VST-ADP-021 of VST-ROT-009
- Used with O-rings for aerosol-tight application

O-RING	
Model No.	VST - ACS - 010
Item Code	1380080
Description	O-ring for adapter VST-ADP-006 ~ VST-ADP-021

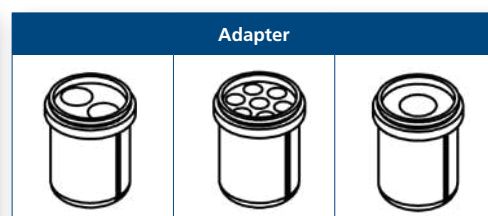
Adapter Model No.	VST - ADP - 006	VST - ADP - 007	VST - ADP - 008
Item code	1380033	1380034	1380035
Number of Tubes and Tube Capacity	1 x 250 ml	1 x 100 ml	3 x 50 ml
Tube type (inside the bucket)	Flat	Dome	
Total Number of Tubes per Rotor	4		12
Adapter Bore	62 mm ø (2.4"ø)	41 mm ø (1.6"ø)	29 mm ø (1.1"ø)
Tube Length	110 / 130 mm (4.3" / 5.1")	95 / 120 mm (3.7" / 4.7")	95 / 120 mm (3.7" / 4.7")



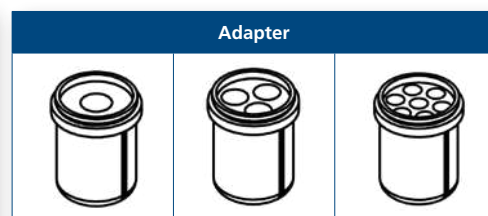
Adapter Model No.	VST - ADP - 009	VST - ADP - 010	VST - ADP - 011
Item code	1380036	1380037	1380038
Number of Tubes and Tube Capacity	5 x 25 ml	9 x 9ml/ 9 x 15ml	3 x 50 ml
Tube type (inside the bucket)	Dome		Conical
Total Number of Tubes per Rotor	20	36	12
Adapter Bore	24.5 mm ø (1.0"ø)	14 / 17 mm ø (0.6" / 0.7"ø)	29 mm ø (1.1"ø)
Tube Length	100 / 120 mm (3.9" / 4.7")	76 / 115 mm (3.0" / 4.5")	100 / 120 mm (3.9" / 4.7")



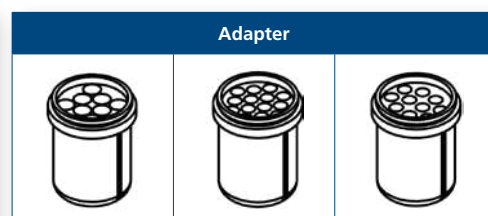
Adapter Model No.	VST - ADP - 012	VST - ADP - 013	VST - ADP - 014
Item code	1380039	1380040	1380041
Number of Tubes and Tube Capacity	2 x 50 ml	7 x 15 ml	1 x 50 ml
Tube type (inside the bucket)	Flat	Conical	Dome
Total Number of Tubes per Rotor	8	28	4
Adapter Bore	29 mm ø rim (1.1" ø rim)	17 mm ø (0.7" ø)	34 mm ø (1.3" ø)
Tube Length	100 / 120 mm (3.9" / 4.7")	95 / 120 mm (3.7" / 4.7")	100 / 120 mm (3.9" / 4.7")



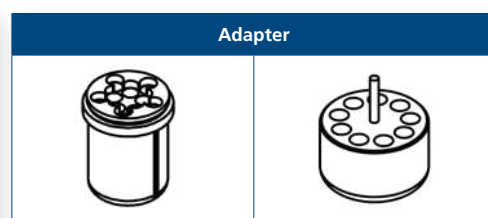
Adapter Model No.	VST - ADP - 015	VST - ADP - 016	VST - ADP - 017
Item code	1380042	1380044	1380043
Number of Tubes and Tube Capacity	1 x 50 ml	3 x 25 ml	7 x 15 ml
Tube type (inside the bucket)	Flat		
Total Number of Tubes per Rotor	4	12	28
Adapter Bore	29 mm ø rim (1.1" ø rim)	24.5 mm ø (1.0" ø)	17 mm ø rim (0.7" ø)
Tube Length	100 / 120 mm (3.9" / 4.7")	85 / 100 mm (3.3" / 3.9")	100 / 120 mm (3.9" / 4.7")



Adapter Model No.	VST - ADP - 018	VST - ADP - 019	VST - ADP - 020
Item code	1380045	1380046	1380047
Number of Tubes and Tube Capacity	8 x 10 ml	14 x 5 - 7 ml	10 x 6 - 7 ml
Tube type (inside the bucket)	Dome		Blood collection tubes
Total Number of Tubes per Rotor	32	56	40
Adapter Bore	16 mm ø rim (0.6" ø rim)	13 mm ø (0.5" ø)	
Tube Length	80 / 100 mm (3.1" / 3.9")	65 / 120 mm (2.6" / 4.7")	75 / 120 mm (3.0" / 4.7")



Adapter Model No.	VST - ADP - 021	VST - ADP - 022
Item code	1380048	1380049
Number of Tubes and Tube Capacity	8 x 4 - 10 ml	9 x 1.5 - 2 ml
Tube type (inside the bucket)	Blood collection tubes	Conical/ Dome
Total Number of Tubes per Rotor	32	36
Adapter Bore	16 mm ø (0.6" ø)	11 mm ø (0.4" ø)
Tube Length	75 / 100 mm (3.0" / 3.9")	38 mm (1.5")



• Used with VST-ADP-006

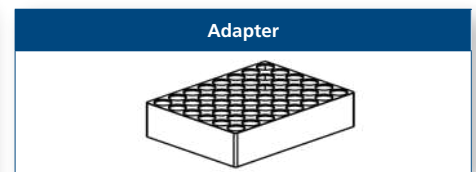
MICROTITER SWING-BUCKET ROTOR	
Model No.	VST - ROT - 010
Item Code	1380023
Maximum Capacity	2 x 3 MTP
Acceleration	43 - 452 seconds
Deceleration	38 - 616 seconds
Maximum Loading Height	63 mm (2.5")
Maximum Loading Weight	310 g
Angle	0-90°
Maximum Radius	120 mm (4.7")
Maximum RCF	2716 x g
Maximum Speed	4500 rpm
Temperature at Maximum Speed	-3°C



- Has available deep well plate adapter for 48 x 1.5 ml / 2.0 ml micro tubes.
- Rotor and adapters are autoclavable (maximum 121°C, 20 minutes).

Note: Please proceed to page 22 for Esco Microtiter Swing-bucket Rotor Guide

Model No.	VST-ADP-023 (Deep well plate)
Item Code	1380050
Number of Tubes and Tube Capacity	48 x 1.5/2.0 ml (Conical/ Dome)
Bores Diameter	11 mm
Length	40 mm
Total Number of Tubes per Rotor	96



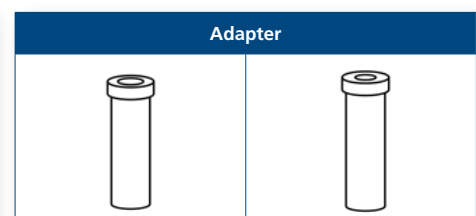
Adapter Model No.	VST - ACS - 012
Item Code	1380082
Description	Replacement carrier for rotor VST-ROT-010

FIXED-ANGLE ROTOR	
Model No.	VST-ROT-102
Item Code	1380205
Number of Tubes and Tube Capacity	24 x 1.5 / 2.0 ml
Tube type (without adapter)	Conical/ Dome
Acceleration	25 - 251 seconds (1.5 ml) 30 - 249 seconds (2.0 ml)
Deceleration	26 - 610 seconds (1.5 ml) 27 - 635 seconds (2.0 ml)
Length	40 mm (1.6")
Angle	45°
Maximum Radius	85 mm (3.3")
Maximum Bore	11 mm ø (0.4"ø)
Maximum RCF	21380 / 24320 x g
Maximum Speed	15000 rpm (TCV) / 16000 rpm (TCR)
Temperature at Maximum Speed	3°C



- Has the highest maximum rpm capacity among the Versati™ Centrifuges.
- Has available adapters for 0.5 ml, and 0.2 / 0.4 ml PCR tubes.
- Rotor, lid, and adapters are autoclavable (maximum of 121°C, 20 minutes).
- TÜV NORD Bioseal Certified Rotor

Adapter Model No.	VST - ADP - 001	VST - ADP - 002
Item code	1380013	1380014
Number of Tubes and Tube Capacity	1 x 0.5 ml	1 x 0.4 / 0.2 ml PCR
Tube type (inside the adapter)	Conical	
Adapter type	Flat	
Total Number of Tubes per Rotor	24	
Adapter Bore	8 mm ø (0.3"ø)	6 mm ø (0.2"ø)
Tube Length	45 mm (1.8")	

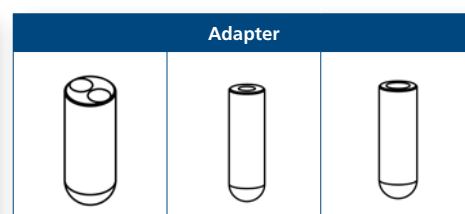


FIXED-ANGLE ROTOR	
Model No.	VST-ROT-013
Item Code	1380026
Number of Tubes and Tube Capacity	6 x 85 ml
Tube type (without adapter)	Dome
Acceleration	85 - 697 seconds
Deceleration	70 - 2313 seconds
Length	113 mm (4.4")
Angle	38°
Maximum Radius	115 mm (4.5")
Maximum Bore	38 mm ø (1.5" ø)
Maximum RCF	15550 x g (TCV) / 21730 x g (TCR)
Maximum Speed	11000 rpm (TCV) / 13000 rpm (TCR)
Temperature at Maximum Speed	15°C

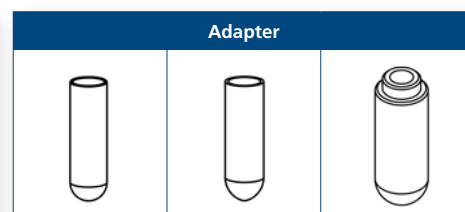


- Has available adapters for 15 ml, 16 ml, 30 ml, and 50 ml tubes.
- Rotor, lid, and adapters are autoclavable (maximum of 121°C, 20 minutes).

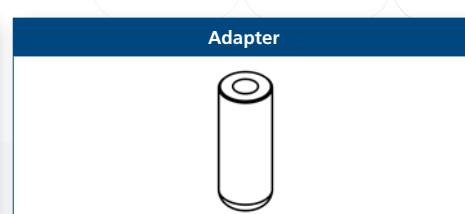
Adapter Model No.	VST - ADP - 024	VST - ADP - 025	VST - ADP - 026
Item code	1380051	1380052	1380053
Number of Tubes and Tube Capacity	2 x 15 ml	1 x 15 ml	1 x 30 ml
Tube type (inside the adapter)	Dome		
Adapter type	Dome		
Total Number of Tubes per Rotor	12	6	
Adapter Bore	17 mm ø rim (0.7" ø rim)		25 mm ø (1.0" ø)
Tube Length	95 / 100 mm (3.7" / 3.9")	103 / 110 mm (4.1" / 4.3")	90 / 103 mm (3.5" / 4.1")



Adapter Model No.	VST - ADP - 027	VST - ADP - 028	VST - ADP - 031
Item code	1380054	1380055	1380058
Number of Tubes and Tube Capacity	1 x 50 ml	1 x 50 ml	1 x 15 ml
Tube type (inside the adapter)	Dome	Conical	
Adapter type	Dome		
Total Number of Tubes per Rotor	6		
Adapter Bore	29 mm ø rim (1.1"ø rim)		17 mm ø (0.7"ø)
Length	105 mm (4.1")	118 mm (4.6")	120 mm (4.7")



Adapter Model No.	VST - ADP - 032
Item Code	1380059
Number of Tubes and Tube Capacity	1 x 16 ml
Tube type (inside the adapter)	Conical
Adapter type	Dome
Total Number of Tubes per Rotor	6
Adapter Bore	18 mm ø (0.7" ø)
Tube Length	103/110 mm (4.1" / 4.3")

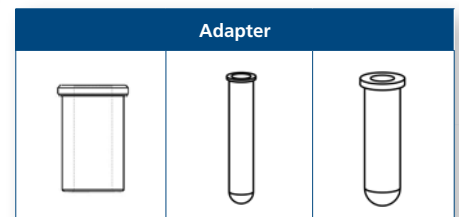


FIXED-ANGLE ROTOR	
Model No.	VST-ROT-014
Item Code	1380027
Number of Tubes and Tube Capacity	30 x 15 ml
Tube type (without adapter)	Conical/ Dome
Acceleration	25 - 149 seconds
Deceleration	20 - 985 seconds
Length	120 mm (4.7")
Angle	35°
Maximum Radius	125 mm (4.9") outer slots / 109 mm (4.3) inner slots
Maximum Bore	17 mm ø (0.7"ø)
Maximum RCF	2830 x g (outer slots) / 2468 x g (inner slots)
Maximum Speed	4500 rpm
Temperature at Maximum Speed	-12°C



- Mainly for hospital use in centrifugation of urine and blood
- Rotor and adapters are autoclavable (maximum of 121°C, 20 minutes).

Adapter Model No.	VST-ADP -003	VST-ADP - 029	VST-ADP - 030
Item code	1380015	1380056	1380057
Number of Tubes and Tube Capacity	1 x 1.5/ 2.0 ml	1 x 4-7 ml	1 x 1.8-5 ml
Tube type (inside the adapter)	Conical/ Dome	Round (vacutainer tube)	
Adapter type	Holed	Dome	
Total No. of Tubes per Rotor	20		
Adapter Bore	11 mm ø (0.43"ø)	13.5 mm ø rim (0.5"ø rim)	
Tube Length	42 mm (1.7")	95 /115 mm (3.7"/4.5")	70/90 mm (2.6"/3.5")

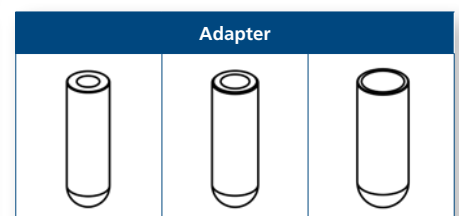


FIXED-ANGLE ROTOR	
Model No.	VST - ROT - 015
Item Code	1380028
Number of Tubes and Tube Capacity	4 x 85 ml
Tube type (without adapter)	Dome
Acceleration	60 - 506 seconds
Deceleration	49 - 1745 seconds
Length	113 mm (4.4")
Angle	30°
Maximum Radius	92 mm (3.6")
Maximum Bore	38 mm ø (1.5"ø)
Maximum RCF	14809 x g
Maximum Speed	12000 rpm
Temperature at Maximum Speed	5°C

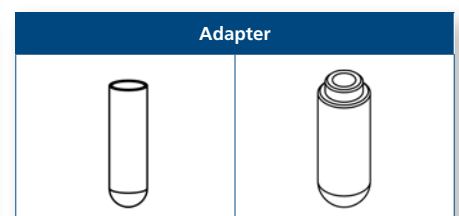


- Suitable for bacterial culture in medium tube capacity.
- Rotor, lid, and adapters are autoclavable (maximum of 121°C, 20 minutes).

Adapter Model No.	VST - ADP - 025	VST - ADP - 026	VST - ADP - 027
Item code	1380052	1380053	1380054
Number of Tubes and Tube Capacity	1 x 15 ml	1 x 30 ml	1 x 50 ml
Tube type (inside the adapter)	Dome		
Adapter type	Dome		
Total Number of Tubes per Rotor	4		
Adapter Bore	17 mm ø rim (0.7"ø rim)	25 mm ø (1.0"ø)	29 mm ø (1.14"ø)
Tube Length	103/110 mm (4.1"/4.3")	90 / 103 mm (3.5"/4.3")	105 mm (4.1")



Adapter Model No.	VST - ADP - 028	VST - ADP - 031
Item code	1380055	1380058
Number of Tubes and Tube Capacity	1 x 50 ml	1 x 15 ml
Tube type (inside the adapter)	Conical	
Adapter type	Dome	
Total Number of Tubes per Rotor	4	
Adapter Bore	29 mm ø (1.1"ø)	17 mm ø (0.7"ø)
Tube Length	118 mm (4.6")	120 mm (4.7")

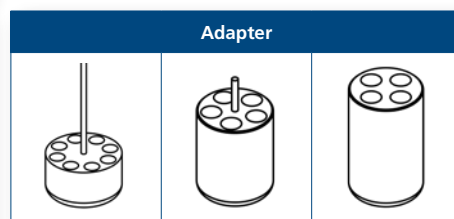


FIXED-ANGLE ROTOR	
Model No.	VST - ROT - 016
Item Code	1380029
Number of Tubes and Tube Capacity	6 x 250 ml
Tube type (without adapter)	Flat
Acceleration	130 - 664 seconds
Deceleration	92 - 2906 seconds
Length	122 mm (4.8")
Angle	28°
Maximum Radius	140 mm (5.5")
Maximum Bore	62 mm ø (2.4"ø)
Maximum RCF	10016 x g
Maximum Speed	8000 rpm
Temperature at Maximum Speed	3°C

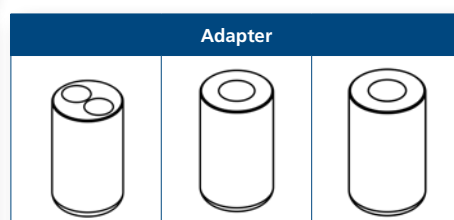


- The angle rotor of Versati™ Centrifuges with the highest maximum volume capacity.
- Suitable to run large sample tubes.
- Rotor and adapters are autoclavable (maximum of 121°C, 20 minutes).

Adapter Model No.	VST - ADP - 038	VST - ADP - 039	VST - ADP - 040
Item code	1380065	1380066	1380067
Number of Tubes and Tube Capacity	8 x 1.5 ml	5 x 10 ml	4 x 15 ml
Tube type (inside the adapter)	Conical/ Dome	Dome	Conical
Adapter type	Flat		
Total Number of Tubes per Rotor	48	30	24
Adapter Bore	11 mm ø (0.4"ø)	16 mm ø (0.6")	17 mm ø (0.7"ø)
Tube Length	40 mm (1.6")	80 mm (3.1")	120 mm (4.7")



Adapter Model No.	VST - ADP - 041	VST - ADP - 042	VST - ADP - 043
Item code	1380068	1380069	1380070
Number of Tubes and Tube Capacity	2 x 30 ml	1 x 50 ml	1 x 50 ml
Tube type (inside the adapter)	Dome		Conical
Adapter type	Flat		
Total Number of Tubes per Rotor	12	6	6
Adapter Bore	26 mm ø rim (1.02"ø)	29 mm ø (1.1"ø)	30 mm ø (1.2"ø)
Tube Length	92 mm (3.6")	103 mm (4.1")	118 mm (4.6")

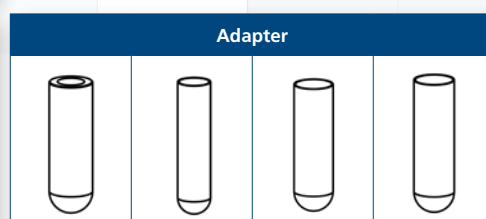


FIXED-ANGLE ROTOR	
Model No.	VST-ROT-017
Item Code	1380030
Number of Tubes and Tube Capacity	6 x 50 ml
Tube type (without adapter)	Dome
Acceleration	48 - 446 seconds
Deceleration	49 - 1323 seconds
Length	95 / 115 mm (3.7" / 4.5")
Angle	26°
Maximum Radius	84 mm (3.3")
Maximum Bore (ø mm)	29 mm ø (1.1"ø)
Maximum RCF	15869 x g
Maximum Speed	13000 rpm
Temperature at Maximum Speed	0°C



- Can run medium sample volume.
- Has available adapters for 15 ml, 16 ml, and 30 ml tubes.
- Rotor, lid, and adapters are autoclavable (maximum of 121°C, 20 minutes).

Adapter Model No.	VST - ADP - 033	VST - ADP - 034	VST - ADP - 035	VST - ADP - 036
Item code	1380060	1380061	1380062	1380064
Number of Tubes and Tube Capacity	1 x 16 ml	1 x 15 ml	1 x 15 ml	1 x 30 ml
Tube type (inside the adapter)	Dome		Conical	Dome
Adapter type	Dome			
Total Number of Tubes per Rotor	6			
Adapter Bore	18 mm ø (0.7"ø)	17 mm ø (0.67"ø)	17.5 mm ø (0.68"ø)	25 mm ø (1.0"ø)
Tube Length	100 / 105 mm (3.9"/4.1")	100/105 mm (3.9"/4.")	116 / 125 mm (4.7"/4.9")	92 / 95 mm (3.6"/3.7")



- Used only without rotor lid

FIXED-ANGLE ROTOR	
Model No.	VST-ROT-018
Item Code	1380031
Number of Tubes and Tube Capacity	20 x 10 ml
Tube type (without adapter)	Dome
Acceleration	54 - 512 seconds
Deceleration	47 - 1439 seconds
Length	80 mm (3.1")
Angle	30°
Maximum Radius	98 mm (3.9")
Maximum Bore	16 mm ø (0.6" ø)
Maximum RCF	15775 x g
Maximum Speed	12000 rpm
Temperature at Maximum Speed	0°C



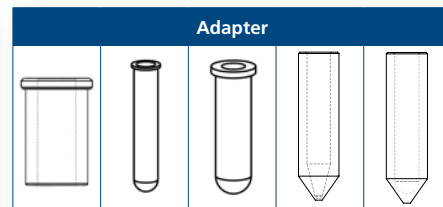
- The angle rotor of Versati™ Centrifuges with the second-lowest temperature at maximum speed.
- Rotor, lid, and adapters are autoclavable (maximum 121°C, 20 mins).

FIXED-ANGLE ROTOR	
Model No.	VST-ROT-019
Item Code	1380032
Number of Tubes and Tube Capacity	10 x 50 ml
Tube type (without adapter)	Conical
Acceleration	115 - 753 seconds
Deceleration	72 - 2395 seconds
Length	118 mm (4.6")
Angle	38°
Maximum Radius	130 mm (5")
Maximum Bore	29 mm ø (1.1" ø)
Maximum RCF	11771 x g (TCV) / 16022 x g (TCR)
Maximum Speed	9000 rpm (TCV) / 10500 rpm (TCR)
Temperature at Maximum Speed	9°C



- The angle rotor that has available adapters for micro tubes, vacutainers, and medium volume sample tubes.
- Rotor, lid, and adapters are autoclavable (maximum 121°C, 20 mins).

Adapter Model No.	VST-ADP-003	VST-ADP-029	VST-ADP-030	VST-ADP-049	VST-ADP-050
Item Code	1380015	1380056	1380057	1380178	1380179
Number of Tubes and Tube Capacity	1 x 1.5/ 2.0 ml	1 x 4-7 ml	1 x 1.8-5 ml	1 x 15 ml	1 x 15 ml
Tube type (inside the adapter)	Conical/ Dome	Round (vacutainer tube)		Conical	Dome
Adapter type	Holed	Dome		Conical	
Total Number of Tubes per Rotor	10				
Adapter Bore	11 mm ø (0.43"ø)	13.5 mm ø rim (0.5"ø rim)		17 mm ø (0.7"ø)	17 mm ø (0.7"ø)
Tube Length	42 mm (1.7")	95 /115 mm (3.7"/4.5")	70/90 mm (2.6"/3.5")	120 mm (4.7")	103/123 mm (4.1"/4.8")



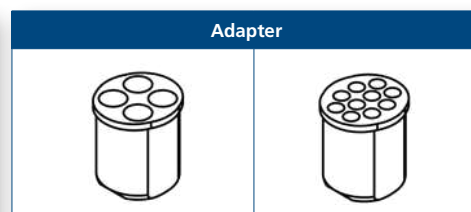
- VST-ADP-049 or VST-ADP-050 is required to use these adapters

SWING-BUCKET ROTOR	
Model No.	VST-ROT-020
Item Code	1380105
Number of Tubes and Tube Capacity	4 x 250 ml
Bucket type	Oval-shaped flat-bottom
Acceleration	34 - 316 seconds
Deceleration	36 - 240 seconds
Angle	0-90°
Maximum Radius	165 mm (6.6")
Maximum RCF	3735 x g
Maximum Speed	4500 rpm
Temperature at Maximum Speed	2°C

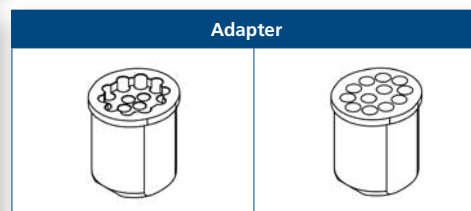


- 4 x 250 ml bucket with flexible adapters for bulk sample testing.
- Has available buckets to run more blood collection and medium capacity sample tubes.
- Rotor and buckets are autoclavable (maximum 121°C, 20 minutes).

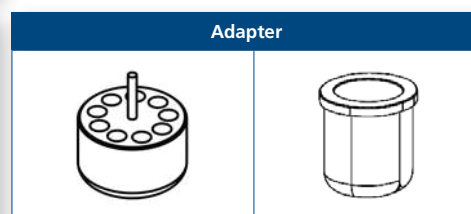
Adapter Model No.	VST - ADP - 044	VST - ADP - 045
Item Code	1380106	1380107
Number of Tubes and Tube Capacity	4 x 50 ml	10 x 15 ml
Tube type (inside the adapter)	Conical	
Adapter type	Flat	
Total Number of Tubes per Rotor	16	40
Adapter Bore	29 mm ø (1.1" ø)	17 mm ø (0.7" ø)
Tube Length	116 mm (4.6")	121 mm (4.8")



Adapter Model No.	VST - ADP - 046	VST - ADP - 047
Item Code	1380171	1380172
Number of Tubes and Tube Capacity	14 x 1.1-7 ml	12 x 6-10 ml
Tube type (inside the adapter)	Blood collection tubes	
Adapter type	Flat	
Total Number of Tubes per Rotor	56	48
Adapter Bore	13 mm ø (0.5" ø)	16 mm ø (0.6" ø)
Tube Length	75 / 100 mm (3.0" / 3.9")	92 / 100 mm (3.6" / 3.9")



Adapter Model No.	VST - ADP - 022	VST - ADP - 048
Item Code	1380049	1380174
Number of Tubes and Tube Capacity	9 x 1.5 - 2 ml	1 x 250 ml
Tube type (inside the adapter)	Conical/ Dome	Flat
Adapter type	Flat	
Total Number of Tubes per Rotor	36	4
Adapter Bore	11 mm ø (0.4" ø)	62 mm ø (2.4" ø)
Tube Length	38 mm (1.5")	122 mm (4.8")



• Used with VST-ADP-048

TECHNICAL SPECIFICATION

Model		MCV-88-8	MCV-88-9	MCR-88-8	MCR-88-9	TCV-1500-8	TCV-1500-9	TCR-1500-8	TCR-1500-9
Item Code		2220001	2220002	2220003	2220004	2220005	2220006	2220007	2220008
External Dimensions (W x D x H)		280 x 389 x 304 mm (11" x 15" x 12")		280 x 563 x 294 mm (11" x 22" x 11.5")		438 x 532 x 374 mm (17" x 21" x 15")		715 x 528 x 373 mm (28" x 20.7" x 15")	
Maximum Relative Centrifugal Force		21380 x g				21382 x g		24320 x g	
Maximum Relative Centrifugal Force Swing-bucket Rotor						3780 x g			
Maximum Speed		15000 rpm				15000 rpm		16000 rpm	
Maximum Volume		44 x 1.5 / 2.0 ml				6 x 250 ml			
Rotor Options		6		5		11			
Speed Range		200 - 15000 rpm				200 - 15000 rpm		200 - 16000 rpm	
Acceleration / Deceleration Rates		10 / 10				10 / 10			
Programs Storage		99				99			
Temperature Range		Ambient		-20°C to +40°C		Ambient		-20°C to 40°C	
Time Set Range		99 hrs 59 mins / 59 min 50 s in 1min / 10s increments / continuous							
Maximum Noise Level (Depending on the rotor)		≤ 62 dB(A)		≤ 59 dB(A)		≤ 68 dB(A)		≤ 64 dB(A)	
Construction	Main Body	Electrogalvanized steel with Isocide™ antimicrobial powder-coated finish							
	Chamber	Plastic ABS		Stainless steel, grade 304					
Electrical Configuration		270 W 230 VAC, 50/60 Hz	280 W 120 VAC, 50/60 Hz	500 W 230 VAC, 50/60 Hz	560 W 120 VAC, 50/60 Hz	530 W 230 VAC, 50/60 Hz	520 W 120 VAC, 50/60 Hz	785 W 230 VAC, 50/60 Hz	850 W 120 VAC, 50/60 Hz
Net Weight		17 kg (37 lbs)		35 kg (77 lbs)		49 kg (108 lbs)		73 kg (161 lbs)	
Shipping Weight		22 kg (49 lbs)		40 kg (88 lbs)		56 kg (123 lbs)		80 kg (176 lbs)	
Shipping Dimension (W x D x H)		650 x 670 x 550 mm (25.6" x 26.4" x 21.7")		410 x 680 x 400 mm (16.1" x 26.8" x 15.7")		720 x 860 x 690 mm (28.3" x 33.9" x 27.2")		830 x 650 x 580 mm (32.7" x 25.6" x 22.8")	
Shipping Volume, Maximum		0.24 m³ (8.5 ft³)		0.11 m³ (3.9 ft³)		0.42 m³ (14.8 ft³)		0.31 m³ (10.9 ft³)	

Noise Level per Rotor

Micro Centrifuge (Ventilated)	
Rotor No.	Noise Level
VST-ROT-101	≤ 58 dBA
VST-ROT-003	≤ 59 dBA
VST-ROT-004	≤ 60 dBA
VST-ROT-006	≤ 53 dBA
VST-ROT-007	≤ 57 dBA
VST-ROT-008	≤ 62 dBA

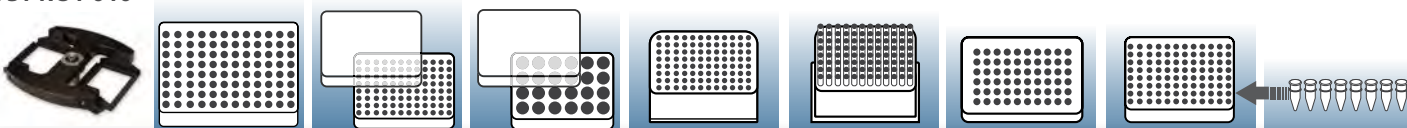
Micro Centrifuge (Refrigerated)	
Rotor No.	Noise Level
VST-ROT-101	≤ 58 dBA
VST-ROT-003	≤ 58 dBA
VST-ROT-004	≤ 59 dBA
VST-ROT-006	≤ 52 dBA
VST-ROT-007	≤ 56 dBA

Tabletop Centrifuge (Ventilated)	
Rotor No.	Noise Level
VST-ROT-009	≤ 67 dBA
VST-ROT-010	≤ 65 dBA
VST-ROT-102	≤ 60 dBA
VST-ROT-013	≤ 61 dBA
VST-ROT-014	≤ 54 dBA
VST-ROT-015	≤ 59 dBA
VST-ROT-016	≤ 68 dBA
VST-ROT-017	≤ 57 dBA
VST-ROT-018	≤ 57 dBA
VST-ROT-019	≤ 67 dBA
VST-ROT-020	≤ 57 dBA

Tabletop Centrifuge (Refrigerated)	
Rotor No.	Noise Level
VST-ROT-009	≤ 56 dBA
VST-ROT-010	≤ 56 dBA
VST-ROT-102	≤ 60 dBA
VST-ROT-013	≤ 57 dBA
VST-ROT-014	≤ 56 dBA
VST-ROT-015	≤ 59 dBA
VST-ROT-016	≤ 55 dBA
VST-ROT-017	≤ 64 dBA
VST-ROT-018	≤ 57 dBA
VST-ROT-019	≤ 54 dBA
VST-ROT-020	≤ 55 dBA

Esco Microtiter Swing-bucket Rotor Guide

VST-ROT-010

								
TYPE	Microtiter Plate	Microtiter Plate (with lid)	Culture Plate	*Deep Well Plate	Microsonic System	Microtest/Terasaki Plate	PCR Plate (96-well)	PCR Strip
Dimensions (WxDxH)	128 x 86 x 15 mm	128 x 86 x 17.5 mm	128 x 86 x 22 mm	128 x 86 x 44.5 mm	128 x 86 x 46 mm	84 x 59 x 11 mm	124 x 82 x 20 mm	-
Plates / Strips per Rotor	6	6	4	2	2	4	2	24 x 8
Max. Loading Weight (per carrier)	310 g							
Max. Loading Height	63 mm							

*Available in Esco (Item code: 1380050).

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