



Velocity 18R pro

Refrigerated Benchtop
Centrifuge

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Refrigerated benchtop centrifuge

The **Velocity 18R pro** delivers high capacity, refrigerated centrifugation with an impressive maximum speed of 18,000 RPM (28,980 x g) and all from the convenience of the bench.



Features & Characteristics









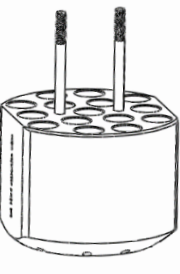
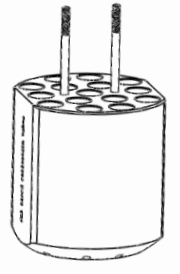
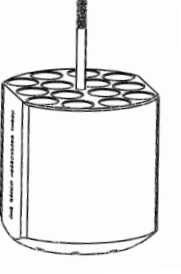
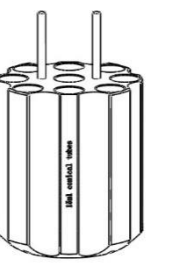
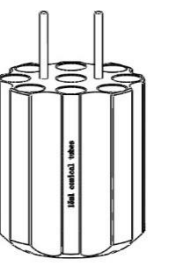
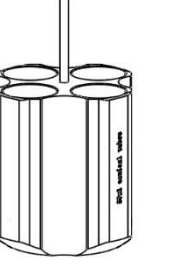
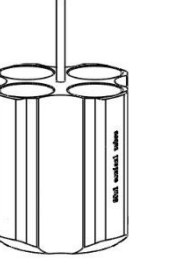

- Rotor quick set system
- Automatic rotor identification
- High Capacity (16x50ml or 36x15ml tubes, by rotor SW5L)
- Faster acceleration and deceleration
- Automatic imbalance motoring
- High-performance cooling
- Pre-cooling function
- Testing the real temperature of the sample
- Low noise level



Rotor Selection Guide

Model	Swing out rotor SW5L
Order No. :	0033239
Rotor ID :	15
max. speed :	4,200 rpm
max. RCF :	3,388 x g
Max. Radius :	17.4 cm








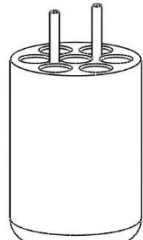
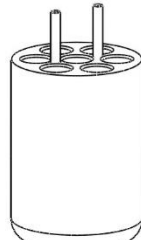
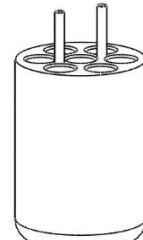
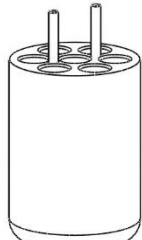
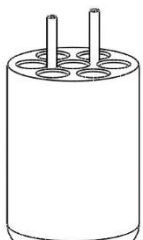
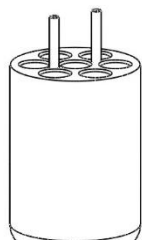
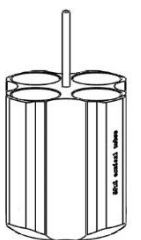


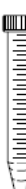
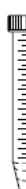




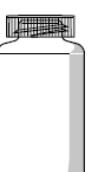
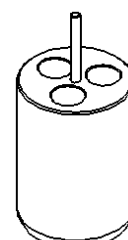
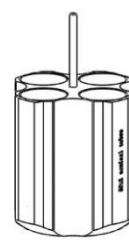
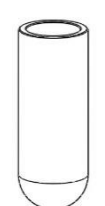

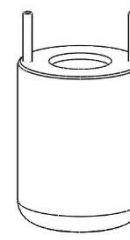

Sample tube								
Tube Volume	2 ml	5 ml	8 ml	15 ml	15 ml	50 ml	50 ml	250 ml
Tubes Ø in mm	13	13	16	17	16	29	28	62
Max. height (mm)	75	100	100	120	112	115	102	130
Tube description	Blood collection tube			Culture V bottom	PP Round bottom	Culture V bottom	PP Round bottom	Flat bottom
Capacity per rotor	60	60	56	36	36	16	16	4
Tubes per bucket	15	15	14	9	9	4	4	1
Adapter for SW5L								
Order No	0033977	0033981	0033985	0033249	0033989	0033254	0033993	0033259








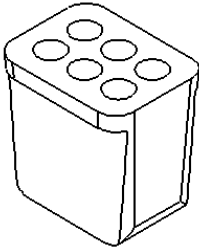
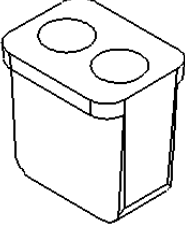
Model	Swing out rotor SW5
Order No. :	0000442
Rotor ID :	50
max. speed :	4,800 rpm
max. RCF :	4,170 x g
Max. Radius :	16.2 cm






















Sample tube							
Tube Volume	3 ml	5 ml	7 ml	10 ml	10 ml	15 ml	15 ml
Tubes Ø in mm	13	13	16	16	12	20	16
Max. height (mm)	75	100	100	100	105	126	112
Tube description	Blood collection tube				Round Bottom Glass tube		PP Round bottom
Capacity per rotor	28	28	28	28	28	28	16
Tubes per bucket	7	7	7	7	7	7	4
Adapter for SW5							
Order No	0026319	0024451	0025831	0030567	0025834	0024458	0024449

Sample tube							
Tube Volume	15 ml	15 ml	50 ml	50 ml	50 ml	50 ml	250 ml
Tubes Ø in mm	17	17	34	28	29	31	62
Max. height (mm)	120	120	100	102	115	122	130
Tube description	Culture V bottom	Culture V bottom <small>(not suitable with plastic caps)</small>	Glass tube	PP Round Bottom <small>(not suitable with plastic caps)</small>	Culture V bottom	Skirted culture V bottom	Flat bottom
Capacity per rotor	12	16	4	16	4	4	4
Tubes per bucket	3	4	1	4	1	1	1
Adapter for SW5							N/A
Order No	0025833	0026347	0025832	0024452	0026346	0025835	

Swing out Rotor

Model	SW5MP	SW4A	
Rotor			
Order No. :	0000432	0024969	
Rotor ID :	55	60	
max. speed :	4,800 rpm	4,000 rpm	
max. RCF :	3,120 x g	2,900 x g	
Sample tube			
Tube volume	96 well microplate	15 ml	50 ml
Tubes Ø (in mm)		17	29
Max. height (in mm)		120	115
Tube Description		Culture V bottom	Culture V bottom
Capacity per rotor		2 x plates	24
Tube per bucket	1 x plate	6	2
Adaptor	N/A		
Order No. :		0025837	0025836

Fixed Angle Rotor

Model	FA15B			FA15C			FA15D			
Rotor										
Order No. :	0000415			0000422			0000419			
Rotor ID :	16			18			17			
max. speed :	15,000 rpm			15,000 rpm			15,000 rpm			
max. RCF :	21,800 x g			23,300 x g			20,900 x g			
Sample tube										
Tube volume	15 ml	15 ml	50 ml	15 ml	15 ml	50 ml	15 ml	15 ml	50 ml	80 ml
Tubes Ø (in mm)	16.5	17	29	16.5	17	29	16.5	17	29	38
Max. height (in mm)	113	120	106	113	120	106	113	120	106	106
Tube Description	PP round bottom	Culture V bottom	PP round bottom	PP round bottom	Culture V bottom	PP round bottom	PP round bottom	Culture V bottom	PP round bottom	PP round bottom
Capacity per rotor	4	4	4	6	6	6	4	4	4	4
Adaptor			N/A			N/A				N/A
Order No. :	0024361	0024359		0024329	0025027		0024440	0024448	0026051	



Remark : End-user should verify the maximum x g the tubes can withstand and ensure that the required x g force does not exceed this rating.

Fixed Angle Rotor

Model	FA14C				FA10B		FA15C		
Rotor									
Order No. :	0030667				0020867		0000422		
Rotor ID :	13				03		18		
max. speed :	14,000 rpm		14,000 rpm		10,000 rpm		15,000 rpm		
max. RCF :	21,000 x g		21,000 x g		11,400 x g		23,300 x g		
Sample tube									
Tube volume	15 ml	50 ml	10 ml	50 ml	15 ml	50 ml	15 ml	15 ml	50 ml
Tubes Ø (in mm)	17	29	19	30	17	29	16.5	17	29
Max. height (in mm)	120	115	92	115	120	115	113	120	106
Tube Description	Culture V bottom	Culture V bottom	PP round bottom	Himac 50ml TC tube	Culture V bottom	Culture V bottom	PP round bottom	Culture V bottom	PP round bottom
Capacity per rotor	4	4	4	4	6	6	6	6	6
Tube per rotor	4 (4 x 15ml OR 4 x 50ml)		8		6	6	6	6	6
Adaptor		N/A	N/A	N/A		N/A			N/A
Order No. :	0024360				0024328		0024329		0024327

Remark : End-user should verify the maximum x g the tubes can withstand and ensure that the required x g force does not exceed this rating.

Fixed Angle Rotor

Model	FA12A	FA12B	FA18B	FA15A
Rotor				
Sample tube				
Order No. :	0000402	0031053	0017942	0000408
Rotor ID :	03	02	36	19
max. speed :	12,000 rpm	12,000 rpm	18,000 rpm	15,000 rpm
max. RCF :	14,100 x g	13,840 x g	24,990 x g	21,500 x g
Tube volume :	0.2 ml	2 ml	1.5/2.0 ml	1.5/2.0 ml
Capacity per rotor :	48	48	18	24
Tube size :	Φ6 x 24mm	Φ10.8 x 40.5mm	Φ10.5 x 41mm	Φ10.5 x 41mm

Model	FA15E	FA15F	FA18C	FA5A
Rotor				
Sample tube				
Order No. :	0031050	0031047	0030462	0031390
Rotor ID :	06	04	01	01
max. speed :	15,000 rpm	15,000 rpm	18,000 rpm	5,600 rpm
max. RCF :	22,600 x g	22,600 x g	28,978 x g	4,700 x g
Tube volume :	5 ml	5 ml	10 ml	15 ml
Capacity per rotor :	12 (Conical tube)	12 (Round bottom tube)	10	12
Tube size :	Φ16.7 x 60mm	Φ13.5 x 53.5mm	Φ16 x 82mm	Φ17 x 119mm

Specifications and ordering information

Model	Velocity 18R pro
Maximum speed	18,000 RPM (Rotor FA18C)
Maximum RCF	28,980 x g (Rotor FA18C)
Max. Nominal Capacity	1,000 mL (4 x 250ml)
Driving system	Inverted induction motor
Speed Control Range	300 rpm to 18,000 rpm (10 rpm increments)
Speed / RCD conversion	Yes
Acceleration / Deceleration mode	1-9 stages / 0-9 stages
Temperature setting range	-20°C to +40°C in steps of 1°C
Refrigerant	R134a
Temperature accuracy	± 2°C
Safety features	<ul style="list-style-type: none"> - Cover door with dual lock - Over-speed detector - Over-heat detector - Imbalance detector - Automatic diagnostic system - Liquid seeping prevention
Timer	Running time from 1 min to 99 hours 59 min. or "HOLD function"
Program memory	9 programs
Automatic rotor recognition	Yes
Display	Backlit LCD
Additional functions	<ul style="list-style-type: none"> - Pre-cooling function - Pulse operation - Progress display
Noise Level	< 58 dB (A)
Dimensions	630 x 610 x 380 mm (LxWxH)
Weight	Approx. 100 Kg
Main Power	220V: Single phase, ~220-240V±10%, 50/60Hz±1Hz, 1800VA

Ordering Information	
Product Number	Description
0033285	Velocity 18R pro Versatile Refrigerated Centrifuge 220V 50Hz
0033284	Velocity 18R pro Versatile Refrigerated Centrifuge 110V 60Hz

