

VELOSPIN 22R

Multi-purpose refrigerated high-speed centrifuge that maximizes experiment efficiency with powerful power and superior sample throughput

STANDARD SPECIFICATION

Description	VELOSPIN 22R	
Max. RPM	22,000RPM(Angle Rotor)	4,000RPM(Swing Rotor)
Max. RCF	54,057 xg	3,265 xg
Max. Capacity	1,000ml x 6	250ml x 4
Accel / Decel phase	0 ~ 9 (10set)	
Set Temp.	-10°C ~ +40°C (1°Cincrements)	
Ref. System	Non-CFC	
Noise Level	≤60dB	
Set Time	99 hour 59 min 59sec or continuous	
Time Count	At set Speed or from starting	
Program	100 memory	
Rotor ID	Automatic Recognition	
Display	4.3" LCD Touch Screen	
Display message on screen	RPM, RCF, Time, Door open/close, Temp, ACC/DEC, Rotor ID, Program, Comp. On/Off, Key Lock	
RPM Range	400 to 22,000 rpm	
Available Rotor Quantity	15	
Power Supply	230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	5.8KW	
Dimension(W x D x H)	667 x 772 x 890 mm (H: 1530 mm with open lid)	
Weight (without rotor)	232kg	
Cat. No.	CS-C-H22R-MB	

MAIN FEATURE



Energy Saving

As one of the pursuit of ESG values, it supports energy saving functions.

- Standby Off function
 - Eco Shut-off setting for refrigeration
- Unnecessary energy use can be avoided.



Various tubes available

Various tubes from 0.2ml to 1000ml are available, suitable tube adapters can be selected.



Wide Range of Application

Various rotor options for multiple purpose in different users.



Biocontainment
Accessory Package



Ideal Security



Safety in High
Speed Operation



Refrigeration &
Fast Cooling

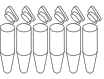


Silent Operation



AC Induction motor
(brushless)

AVAILABLE ANGLE ROTORS

Rotor	A480.2H		A301.5H			A481.5H		
								
	Fixed Angle Rotor : $\angle 45^\circ$ 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor : $\angle 45^\circ$ 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor : $\angle 45^\circ$ 48 x 1.5ml Radius(mm) : 94.8		
Tube								
Volume (ml)	0.2	0.2ml Strips	0.2	0.5	1.5/2.0	0.2	0.5	1.5/2.0
Adaptor / tube rack								
Item	-	-	F1.5A-0.2	F1.5A-0.5	-	F1.5A-0.2	F1.5A-0.5	-
Number per rack / rotor	48	6	30	30	30	48	48	48
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	52	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
RPM	12,000	12,000	22,000	22,000	22,000	13,000	13,000	13,000
Radius (mm)	83.5	83.5	80.3	86.7	94.8	In 70.3 Out 80.3	In 76.7 Out 86.7	In 84.8 Out 94.8
RCF	13,443	13,443	43,451	46,914	51,297	In 13,283 Out 15,172	In 14,492 Out 16,381	In 16,022 Out 17,912

AVAILABLE ANGLE ROTORS

Rotor	A1215H	A1215HC	A650H		A650HC	
						
	Fixed Angle Rotor : $\angle 28^{\circ}$ 12 x 15ml Radius(mm) : 97.1	Fixed Angle Rotor : $\angle 25^{\circ}$ 12 x 15ml Conical Radius(mm) : 100.9	Fixed Angle Rotor : $\angle 30^{\circ}$ 6 x 50ml Radius(mm) : 99.9		Fixed Angle Rotor : $\angle 25^{\circ}$ 6 x 50ml Conical Radius(mm) : 95.7	
Tube						
Volume (ml)	15(16)	15 Conical	15 Conical	50	15 Conical	50 Conical
Adaptor / tube rack						
Item	-	-	F50A-15C	-	F50CA-15C	-
Number per rack / rotor	12	12	6	6	6	6
Adaptor bore (mm)	18.0	17.0	17.0	29.0	17.0	30.0
Max. height for use (mm)	117	129	122	120	124	121
RPM	20,000	20,000	22,000	22,000	17,000	17,000
Radius (mm)	97.1	100.9	94.3	99.9	91.3	95.7
RCF	43,423	45,122	51,027	54,057	29,499	30,921

Rotor	A850H		A685H				A6250H
							 
	Fixed Angle Rotor : $\angle 30^\circ$ 8 x 50ml Radius(mm) : 103.4		Fixed Angle Rotor : $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8				Fixed Angle Rotor $\angle 25^\circ$ 6 x 250ml Radius(mm) : 138.4
Tube	 						
Volume (ml)	15 Conical	50	15 Conical	50 Conical	50	85	250
Adaptor / tube rack							
Item	F50A-15C	-	F85A-15C	F85A-50C	F85A-50	-	-
Number per rack / rotor	8	8	6	6	6	6	6
Adaptor bore (mm)	17.0	29.0	17.0	30.0	29.0	39	62.0
Max. height for use (mm)	123	120	123	122	118	118	126
RPM	20,000	20,000	20,000	20,000	20,000	20,000	12,000
Radius (mm)	97.8	103.4	90.7	94.8	95.3	99.8	138.4
RCF	43,736	46,240	40,561	42,395	42,618	44,631	22,281

AVAILABLE ANGLE ROTORS

Rotor	A6500H	A41000H	A41000HR	A61000H
	 BEST			 BEST
	Fixed Angle Rotor : $\angle 25^\circ$ 6 x 500ml Radius(mm) : 158	Fixed Angle Rotor : $\angle 25^\circ$ 4 x 1000ml Radius(mm) : 169.1	Fixed Angle rotor $\angle 25^\circ$ 4 x 1000ml Radius(mm) : 177.9	Fixed Angle Rotor : $\angle 25^\circ$ 6 x 1000ml Radius(mm) : 198.3
Tube				
Volume (ml)	500	1,000	1,000	1,000
Adaptor / tube rack				
Item	-	-	-	-
Number per rack / rotor	6	4	4	6
Adaptor bore (mm)	70.0	98.0	98.0	98.0
Max. height for use (mm)	169	175	179	177
RPM	10,000	8,000	8,000	7,000
Radius (mm)	158	169.1	177.9	198.3
RCF	17,664	12,099	12,729	10,863

AVAILABLE SWING ROTORS

S4250HE	EB250	EBS250 ¹⁾									BW250
											
	S250ET-5-12	S250ET-10-12	S250ET-15-12	S250ET-15C-9	S250ET-50-4	S250ET-50C-3	S250ET-85-2	S250EA-250			
											
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 182.5 Max. RCF : 3,265											
Volume (ml)	3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP
Number per rack / rotor	12/48	12/48	12/48	9/36	4/16	3/12	2/8	1/4	4/16	4/16	1/4
Adaptor bore (mm)	13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-	-
Max. height for use (mm)	124	124	124	127	124	127	124	138	-	-	-
RPM	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)	177.5	177.5	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5	153.5
RCF	3,175	3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746	2,746

- 1) EBS 250 : certified for dynamic microbiological test(En61010-020) by [TUV NORD](#)

ORDER INFORMATION

ITEM		DESCRIPTIONS	Cat. No.
Main Body	VELOSPIN 22R	230V±10%, 50-60Hz, 1Phase, Industrial Plug(3Pin), 667x772x890mm, 232Kg	CS-C-H22R-MB
	A480.2H	0.2ml x 48 fixed angle rotor for PCR tubes (x 6 PCR strips) (Max 12,000RPM)	CS-C-H10010
	A301.5H	1.5-2.0ml x 30 fixed angle rotor (Max 22,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-C-H10020
	A481.5H	1.5-2.0ml x 48 fixed angle rotor (Max 13,000RPM)	CS-C-H10030
	A1215H	15ml x 12 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-C-H10040
	A1215HC	15ml x 12 fixed angle rotor for conical tubes (≤ 20,000RPM in V22R, 15,000RPM in V17R)	CS-C-H10051
	A650H	50ml x 6 fixed angle rotor (Max 22,000RPM in VELOSPIN 22R, 17,000RPM in VELOSPIN 17R)	CS-C-H10060
Angle Rotor	A650HC	50ml x 6 fixed angle rotor for conical tubes (≤ 17,000RPM in V22R, 15,000RPM in V17R)	CS-C-H10071
	A850H	50ml x 8 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 15,000RPM in VELOSPIN 17R)	CS-C-H10080
	A685H	85ml x 6 fixed angle rotor (Max 20,000RPM in VELOSPIN 22R, 15,000RPM in VELOSPIN 17R)	CS-C-H10090
	A6250H	250ml x 6 fixed angle rotor (Max 12,000RPM in VELOSPIN 22R, 10,000RPM in VELOSPIN 17R)	CS-C-H10100
	A6500H	500ml x 6 fixed angle rotor (Max 10,000RPM in VELOSPIN 22R, 8,000RPM in VELOSPIN 17R)	CS-C-H10110
	A41000H	1000ml x 4 fixed angle rotor (Max 8,000RPM)	CS-C-H10120
	A41000HR	1000ml x 4 fixed angle rotor (Max 8,000RPM), for super speed bottle	CS-C-H10140
Swing Rotor	A61000H	1000ml x 6 fixed angle rotor (Max 7,000RPM)	CS-C-H10130
	S4250HE	250ml x 4-wing rotor for rectangular/micro plate buckets (Max. 4,000RPM)	CS-C-H20010

