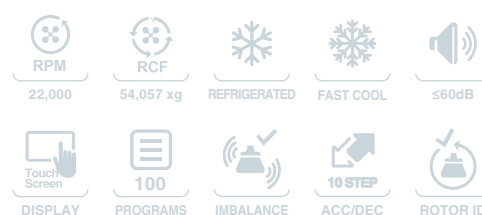




## VELOSPIN 22R

### HIGH SPEED CENTRIFUGE

강력한 파워와 월등한 시료 처리량으로 실험 효율성을 극대화한 다목적 냉장 고속원심분리기



### ● ● ● STANDARD SPECIFICATION

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	
RPM Range	400 to 22,000 rpm	
Available Rotor Quantity	14	
Power Supply	230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	5.9 KW	
Dimension(W x D x H)	666 x 772 x 890 mm(H:0mm with open lid)	
Weight (without rotor)	232kg	



## ● ● ● MAIN FEATURE

### ● 광범위한 어플리케이션

다양한 사용자를 위한 다양한 로터 옵션

### ● CRYSTE FLIP™ 터치 컨트롤러

사용자 친화적인 4.3 인치 Full컬러 터치 LCD 컨트롤러

모든 설정 파라미터를 한눈에 확인 가능

터치 패드 잠금 장치를 통한, 작동 중 오용 방지

### ● 다양한 튜브 적용

0.2ml ~ 1000ml의 다양한 튜브 사용 가능

적절한 튜브 어댑터 선택 가능

### ● 냉장 및 신속 냉각 기능

사용하기 전 사전 냉각을 통하여, 실험 준비 시간을 최소화 할 수 있음

고RPM에서도 분리 효율에 적합한 냉장성능 보장

### ● 고속 운전 중 높은 안전성

고속 운전 중 로터의 미끄러짐 방지를 위한 모터 축 안전 허브 시스템

Interlock 기능을 통한 도어의 안전잠금 시스템

### ● 저소음 구현

균형 잡힌 모터로 진동을 최소화하고, 부차적인 소음 저감 장치를 통한 정숙한 작동

### ● 이상적인 보안기능

비밀번호를 통한 무단 사용 금지

### ● Biocontainment 액세서리 패키지

생물학적 유해 물질 취급을 위한 옵션

TUV NORD로부터 안전 인증

(IEC61010-2-020 : 2016 Annex AA) 받은

바이오셀을 갖춘 버킷

### ● 에너지 절약

사전 설정된 에너지 절약 모드로 전기 운영 비용 절감

대기 모드 및 에코 차단 설정을 통하여, 사용자가 인지하지 못한 불필요한 작동 방지

### ● 드레인

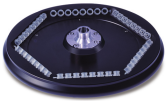














챔버 하단의 배수구를 통하여, 잦은 사용으로 인한 과도한 응축수 제거 가능

## ● ● ● ORDER INFORMATION













	ITEM	DESCRIPTIONS	ORDER CODE
Main Body	VELOSPIN 22R	VELOSPIN 22R, without rotor, 230V / 50~60Hz	VL22R-MB
Angle Rotor	A480.2H	0.2ml x 48 fixed angle rotor for PCR tubes (Max 12,000RPM)	VL-AR1
	A301.5H	1.5/2.0ml x 30 fixed angle rotor (Max 22,000RPM)	VL-AR2
	A481.5H	1.5/2.0ml x 48 fixed angle rotor (Max 13,000RPM)	VL-AR3
	A1215H	15ml x 12 fixed angle rotor (Max 20,000RPM)	VL-AR4
	A1215HC	15ml x 12 fixed angle rotor for conical tubes (Max 20,000RPM)	VL-AR5
	A650H	50ml x 6 fixed angle rotor (Max 22,000RPM)	VL-AR7
	A650HC	50ml x 6 fixed angle rotor for conical tubes (Max 17,000RPM)	VL-AR8
	A850H	50ml x 8 fixed angle rotor (Max 20,000RPM)	VL-AR9
	A685H	85ml x 6 fixed angle rotor (Max 20,000RPM)	VL-AR10
	A6250H	250ml x 6 fixed angle rotor (Max 12,000RPM)	VL-AR11
	A6500H	500ml x 6 fixed angle rotor (Max 10,000RPM)	VL-AR12
	A41000H	1000ml x 4 fixed angle rotor (Max 8,000RPM)	VL-AR13
	A61000H	1000ml x 6 fixed angle rotor (Max 7,000RPM)	VL-AR14
Swing Rotor	S4250HE	250ml x 4-wing rotor for rectangular/micro plate buckets (Max 4,000RPM)	VL-SR1



## ●●● AVAILABLE ANGLE ROTORS















Rotor	 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		
Item	A480.2H		A301.5H			A481.5H		
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	50	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


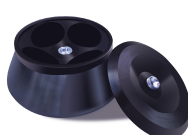




  

Rotor	 Fixed Angle Rotor : $\angle 28^\circ$ 12 x 15ml Radius(mm) : 97.1		 Fixed Angle Rotor : $\angle 25^\circ$ 12 x 15ml Conical Radius(mm) : 100.9		 Fixed Angle Rotor : $\angle 30^\circ$ 6 x 50ml Radius(mm) : 99.9		 Fixed Angle Rotor : $\angle 25^\circ$ 6 x 50ml Conical Radius(mm) : 95.7	
Item	A1215H		A1215HC		A650H		A650HC	
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



























●●● AVAILABLE ANGLE ROTORS

Rotor							
	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.		
Item	A850H		A685H				A6250H
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

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



## ••• AVAILABLE SWING ROTORS

S4250HE	EB250	EBS250									BW250
											
	S250ET-3-12	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	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4
Adaptor bore (mm)	13.2	13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-
Max. height for use (mm)	124	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	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5
RCF	3,175	3,175	3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746



## ECO-FRIENDLY



CRYSTE is striving to preserve the environment by increasing energy efficiency. CRYSTE's refrigerated centrifuge is well equipped with power saving and shutdown functions which increase the power saving effect.

### Power saving function during Standby

The power can be saved by turning off the screen when there is no operation for a certain period of time while waiting for the use.

### Ending reservation function

For the products with refrigeration function, if the door is closed without turning off the power after use, it maintains already set temperature and waiting time. In case of unexpected long-term standby or a staff does not return to the laboratory, use the shutdown reservation function to shut down the product at a specified time without taking unnecessary steps, which increases energy efficiency and improves product durability.