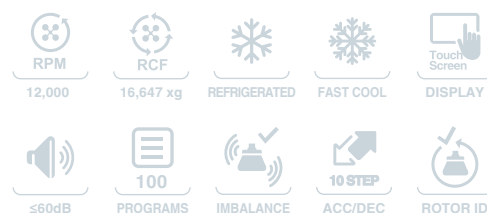




VELOSPIN 12R

HIGH SPEED CENTRIFUGE

강력한 파워와 탁우려한 냉장 능력을 갖춘
다목적 냉장 원심분리기



● ● ● STANDARD SPECIFICATION

Max. RPM	12,000RPM(Angle Rotor)	4,000RPM(Swing Rotor)
Max. RCF	16,647 xg	3,265 xg
Max. Capacity	250ml 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 12,000 rpm	
Available Rotor Quantity	12	
Power Supply	230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	2.8 KW	
Dimension(W x D x H)	564 x 673 x 866 mm	
Weight (without rotor)	164kg	

● ● ● 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 ~ 250ml의 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,
잡은 사용으로 인한 과도한 응축수 제거 가능

● ● ● ORDER INFORMATION

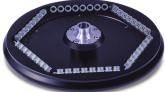



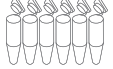










	ITEM	DESCRIPTIONS	ORDER CODE
Main Body	VELOSPIN 12R	VELOSPIN 12R, without rotor, 230V / 50~60Hz	VL12R-MB
Angle Rotor	A480.2H	0.2ml x 48 fixed angle rotor for PCR tubes (Max 12,000RPM)	VL-AR1
	A301.5H	1.5/2.0ml x 30 fixed angle rotor (Max 12,000RPM)	VL-AR2
	A481.5H	1.5/2.0ml x 48 fixed angle rotor (Max 12,000RPM)	VL-AR3
	A1215H	15ml x 12 fixed angle rotor (Max 12,000RPM)	VL-AR4
	A1215HC	15ml x 12 fixed angle rotor for conical tubes (Max 12,000RPM)	VL-AR5
	A2415HC	15ml x 24 fixed angle rotor for conical tubes (Max 8,000RPM)	VL-AR6
	A650H	50ml x 6 fixed angle rotor (Max 12,000RPM)	VL-AR7
	A650HC	50ml x 6 fixed angle rotor for conical tubes (Max 10,000RPM)	VL-AR8
	A850H	50ml x 8 fixed angle rotor (Max 12,000RPM)	VL-AR9
	A685H	85ml x 6 fixed angle rotor (Max 10,000RPM)	VL-AR10
	A6250H	250ml x 6 fixed angle rotor (Max 10,000RPM)	VL-AR11
Swing Rotor	S4250HE	250ml x 4-wing rotor for rectangular/micro plate buckets (Max 4,000RPM)	VL-SR1











●●● AVAILABLE ANGLE ROTORS

LAB.SAFETY

















CENTRIFUGES



LAB.BASIC

Rotor								
	Fixed Angle Rotor 45° 48 x 0.2ml Radius(mm) : 83.5		Fixed Angle Rotor 45° 30 x 1.5ml Radius(mm) : 94.8			Fixed Angle Rotor 45° 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	12,000	12,000	12,000	12,000	12,000	12,000
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	12,928	13,958	15,262	In 11,318 Out 12,928	In 12,348 Out 13,958	In 13,652 Out 15,262

























Rotor								
	Fixed Angle Rotor 28° 12 x 15ml Radius(mm) : 97.1		Fixed Angle Rotor 25° 12 x 15ml Conical Radius(mm) : 100.9		Fixed Angle Rotor 30° 24 x 15ml Conical Radius(mm) : in 106.5 / out 124		Fixed Angle Rotor 30° 6 x 50ml Radius(mm) : 99.9	
Item	A1215H		A1215HC		A2415HC		A650H	
Tube								
Volume (ml)	15(16)		15 Conical		15 Conical		15 Conical	50
Adaptor / tube rack								
Item	-		-		-		F50CA-15C	-
Number per rack / rotor	12		12		24		6	6
Adaptor bore (mm)	18.0		17.0		17.0		17.0	29.0
Max. height for use (mm)	117		129		126		122	120
RPM	12,000		12,000		8,000		12,000	12,000
Radius (mm)	97.1		100.9		In 106.5 Out 124		94.3	99.9
RCF	15,632		16,244		In 7,620 Out 8,872		15,182	16,083

●●● AVAILABLE ANGLE ROTORS

Rotor								
	Fixed Angle Rotor $\angle 25^\circ$ 6 x 50ml Conical Radius(mm) : 95.7		Fixed Angle Rotor $\angle 25^\circ$ 8 x 50ml Radius(mm) : 103.4		Fixed Angle Rotor $\angle 25^\circ$ 6 x 85ml Radius(mm) : 99.8			
Item	A650HC		A850H		A685H			
Tube								
Volume (ml)	15 Conical	50 Conical	15 Conical	50	15 Conical	50 Conical	50	85
Adaptor / tube rack								
Item	F50CA-15C	-	F50A-15C	-	F85A-15C	F85A-50C	F85A-50	-
Number per rack / rotor	6	6	8	8	6	6	6	6
Adaptor bore (mm)	17.0	30.0	17.0	29.0	17.0	30.0	29.0	39
Max. height for use (mm)	124	121	123	120	123	122	118	118
RPM	10,000	10,000	12,000	12,000	10,000	10,000	10,000	10,000
Radius (mm)	91.3	95.7	97.8	103.4	90.7	94.8	95.3	99.8
RCF	10,207	10,699	15,745	16,647	10,140	10,599	10,766	11,158

Rotor								
	Fixed Angle Rotor $\angle 25^\circ$ 6 x 250ml Radius(mm) : 138.4							
Item	A6250H							
Tube								
Volume (ml)	250							
Adaptor / tube rack								
Item	-							
Number per rack / rotor	6							
Adaptor bore (mm)	62.0							
Max. height for use (mm)	126							
RPM	10,000							
Radius (mm)	138.4							
RCF	15,473							

●●● 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

CRYSTE high speed / large capacity model gives the **convenience** of operating a laboratory centrifuge through intuitive **CRYSTE FLIP**



- Easy control from **Finger-tip use**
- Fast '**SAVE & LOAD**' for a variety of programs
- Rotor information in display & **Automatic** identification