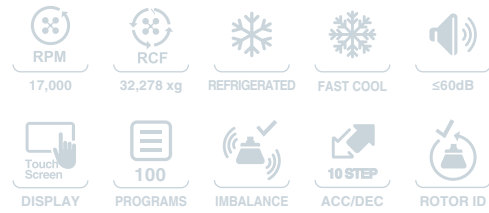




## VELOSPIN 17R

### HIGH SPEED CENTRIFUGE

강력한 파워와 대용량 시료 처리 능력을  
모두 갖춘 다목적 냉장 고속원심분리기



### ● ● ● STANDARD SPECIFICATION

Max. RPM	17,000RPM(Angle Rotor)	4,000RPM(Swing Rotor)
Max. RCF	32,278 xg	3,265 xg
Max. Capacity	500ml 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 17,000 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  
터치패드 잠금 장치를 통한, 작동 중 오용 방지

### ● 다양한 튜브 적용

0.2ml ~ 500ml의 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

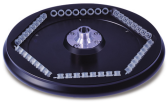



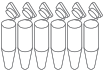






















	ITEM	DESCRIPTIONS	ORDER CODE
Main Body	VELOSPIN 17R	VELOSPIN 17R, without rotor, 230V / 50~60Hz	VL17R-MB
Angle Rotor	A480.2H	0.2ml x 48 fixed angle rotor for PCR tubes (Max 12,000RPM)	VL-AR1
	A301.5H	1.5/2.0ml x 30 fixed angle rotor (Max 17,000RPM)	VL-AR2
	A481.5H	1.5/2.0ml x 48 fixed angle rotor (Max 13,000RPM)	VL-AR3
	A1215H	15ml x 12 fixed angle rotor (Max 17,000RPM)	VL-AR4
	A1215HC	15ml x 12 fixed angle rotor for conical tubes (Max 15,000RPM)	VL-AR5
	A650H	50ml x 6 fixed angle rotor (Max 17,000RPM)	VL-AR7
	A650HC	50ml x 6 fixed angle rotor for conical tubes (Max 15,000RPM)	VL-AR8
	A850H	50ml x 8 fixed angle rotor (Max 15,000RPM)	VL-AR9
	A685H	85ml x 6 fixed angle rotor (Max 15,000RPM)	VL-AR10
	A6250H	250ml x 6 fixed angle rotor (Max 10,000RPM)	VL-AR11
Swing Rotor	A6500H	500ml x 6 fixed angle rotor (Max 8,000RPM)	VL-AR12
	S4250HE	250ml x 4-wing rotor for rectangular/micro plate buckets (Max 4,000RPM)	VL-SR1













## ••• AVAILABLE ANGLE ROTORS





LAB.SAFETY

CENTRIFUGES

LAB.BASIC

<b>Rotor</b>								
	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			
<b>Item</b>	<b>A480.2H</b>		<b>A301.5H</b>		<b>A481.5H</b>			
<b>Tube</b>								
<b>Volume (ml)</b>	0.2	0.2ml Strips	0.2	0.5	1.5/2.0	0.2	0.5	1.5/2.0
<b>Adaptor / tube rack</b>								
<b>Item</b>	-	-	F1.5A-0.2	F1.5A-0.5	-	F1.5A-0.2	F1.5A-0.5	-
<b>Number per rack / rotor</b>	48	6	30	30	30	48	48	48
<b>Adaptor bore (mm)</b>	6.5	6.5	6.5	8	11.1	6.5	8	11.1
<b>Max. height for use (mm)</b>	-	-	44	50	61	In 51 Out 44	In 62 Out 54	In 70 Out 61
<b>RPM</b>	12,000	12,000	17,000	17,000	17,000	13,000	13,000	13,000
<b>Radius (mm)</b>	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
<b>RCF</b>	13,443	13,443	25,945	28,013	30,630	In 13,283 Out 15,172	In 14,492 Out 16,381	In 16,022 Out 17,912
<b>Rotor</b>								
	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	
<b>Item</b>	<b>A1215H</b>		<b>A1215HC</b>		<b>A650H</b>		<b>A650HC</b>	
<b>Tube</b>								
<b>Volume (ml)</b>	15(16)		15 Conical		15 Conical	50	15 Conical	50 Conical
<b>Adaptor / tube rack</b>								
<b>Item</b>	-	-	-	-	F50A-15C	-	F50CA-15C	-
<b>Number per rack / rotor</b>	12	12	12	12	6	6	6	6
<b>Adaptor bore (mm)</b>	18.0	18.0	17.0	17.0	17.0	29.0	17.0	30.0
<b>Max. height for use (mm)</b>	117	117	129	129	122	120	124	121
<b>RPM</b>	17,000	17,000	15,000	15,000	17,000	17,000	15,000	15,000
<b>Radius (mm)</b>	97.1	97.1	100.9	100.9	94.3	99.9	91.3	95.7
<b>RCF</b>	31,373	31,373	25,381	25,381	30,469	32,278	22,967	24,073

<b>Rotor</b>	 <p>Fixed Angle Rotor : <math>\angle 30^\circ</math> 8 x 50ml Radius(mm) : 103.4</p>		 <p>Fixed Angle Rotor : <math>\angle 25^\circ</math> 6 x 85ml Radius(mm) : 99.8</p>			
<b>Item</b>	<b>A850H</b>		<b>A685H</b>			
<b>Tube</b>						
<b>Volume (ml)</b>	15 Conical	50	15 Conical	50 Conical	50	85
<b>Adaptor / tube rack</b>						
<b>Item</b>	F50A-15C	-	F85A-15C	F85A-50C	F85A-50	-
<b>Number per rack / rotor</b>	8	8	6	6	6	6
<b>Adaptor bore (mm)</b>	17.0	29.0	17.0	30.0	29.0	39
<b>Max. height for use (mm)</b>	123	120	123	122	118	118
<b>RPM</b>	15,000	12,000	15,000	15,000	15,000	15,000
<b>Radius (mm)</b>	97.8	103.4	90.7	94.8	95.3	99.8
<b>RCF</b>	24,602	26,010	22,816	23,847	23,973	25,105

























<b>Rotor</b>	 <p>Fixed Angle Rotor : <math>\angle 25^\circ</math> 6 x 250ml Radius(mm) : 138.4</p>		 <p>Fixed Angle Rotor : <math>\angle 25^\circ</math> 6 x 500ml Radius(mm) : 158</p>			
<b>Item</b>	<b>A6250H</b>		<b>A6500H</b>			
<b>Tube</b>						
<b>Volume (ml)</b>	250		500			
<b>Adaptor / tube rack</b>						
<b>Item</b>	-		-			
<b>Number per rack / rotor</b>	6		6			
<b>Adaptor bore (mm)</b>	62.0		70.0			
<b>Max. height for use (mm)</b>	126		169			
<b>RPM</b>	10,000		8,000			
<b>Radius (mm)</b>	138.4		158			
<b>RCF</b>	15,473		11,305			

## ••• AVAILABLE SWING ROTORS

LAB.SAFETY

CENTRIFUGES

LAB.BASIC

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											
<b>Volume (ml)</b>	3	5	10	15	15 Conical	50	50 Conical	85	250	MTP	DWP
<b>Number per rack / rotor</b>	12/48	12/48	12/48	12/48	9/36	4/16	3/12	2/8	1/4	4/16	1/4
<b>Adaptor bore (mm)</b>	13.2	13.2	16	17.2	17	29.5	29.5	38.5	62.5	-	-
<b>Max. height for use (mm)</b>	124	124	124	124	127	124	127	124	138	-	-
<b>RPM</b>	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
<b>Radius (mm)</b>	177.5	177.5	177.5	177.5	180.7	177.5	180.5	177.5	180.5	153.5	153.5
<b>RCF</b>	3,175	3,175	3,175	3,175	3,232	3,175	3,229	3,175	3,229	2,746	2,746



## HIGH EFFICIENCY IN REFRIGERATION APPLICATION

Precise and stable temperature assurance is important when it comes to handle samples that are sensitive to temperature changes.

CRYSTE has developed an optimized temperature control system, so that even at high speed, the sample temperature is maintained without exceeding the set temperature. Moreover, rapid pre-cooling is possible before use, which helps minimize the risk of temperature denaturation of the sample and reducing the waiting time for the experiment.

After use, it is convenient because it is equipped with a drain hole which can drain moisture that is generated due to the difference in the temperature between the inside and outside of the chamber or the number of washes used when cleaning the inside.