CRYSTE

CENTRIFUGES

MULTI CENTRIFUGE
VARISPIN 12R

보다 많은 양의 시료 처리를 위한
다목적 냉장 원심분리기

STANDARD SPECIFICATION

Max. RPM	12,000RPM(Angle Rotor)	5,000RPM(Swing Rotor)
Max. RCF	16,647 xg	4,947 xg
Max. Capacity	85ml x 6	250ml x 4
Accel / Decel phase	0 ~ 9 (10 Step)	
Set Temp.	-10℃ ~ +40℃ (1℃increments)	
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	
Display message on screen	RPM, RCF, Time, Door open/close, Temp ACC, DEC, Rotor ID, Program, Comp. On/Off, Key lock	
Available Rotor Quantity	12	
Power Supply V12R-MB	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	2KW	
Dimension(W x D x H)	681 x 656 x 372 (H:895mm with open lid)	
Weight (without rotor)	86kg	

MAIN FEATURE

다양한 튜브 적용

0.2ml ~ 250ml의 다양한 튜브 사용 가능
적절한 튜브어댑터 선택 가능

0.2 Tube range 250

정확하고 안정적인 온도 유지 가능

효율적인 냉장제어 기술과 로터의 마찰열을 최소화하는 내부 설계를 통하여,
온도에 민감한 시료의 안전한 실험을 보장합니다.

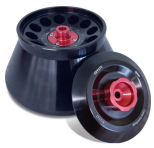
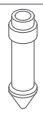
- CRYSTE FLIP 터치 컨트롤러
- Biocontainment 액세서리 패키지
- 광범위한 어플리케이션
- 저소음 구현
- 에너지절약

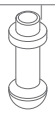
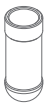
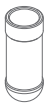
AVAILABLE ANGLE ROTORS

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° 30 x 1.5ml Radius(mm) : 94.8 Aerosol-tight AXLLOCK			Fixed Angle Rotor ∠45° 48 x 1.5ml Radius(mm) : 94.8		
Item	A480.2T		A301.5T			AS301.5TX 1)			A481.5T		
Tube											
Volume (ml)	0.2	0.2ml Strips	0.2	0.5	1.5 / 2.0	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		F1.5A-0.2	F1.5A-0.5	
Number per rack / rotor	48	6	30	30	30	30	30	30	48	48	48
Adaptor bore (mm)	6.5	6.5	6.5	8	11.1	6.5	8	11.1	6.5	8	11.1
Max. height for use (mm)	-	-	44	52	61	44	52	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	12,000	12,000	12,000
Radius (mm)	83.5	83.5	80.3	86.7	94.8	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	12,928	13,958	15,262	In 11,318 Out 12,928	In 12,348 Out 13,958	In 13,652 Out 15,262

• 1) This rotor is not externally certified and have only been self-tested for bioseal sealing.

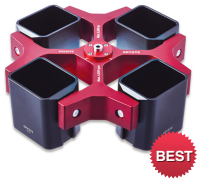
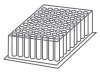
AVAILABLE SWING ROTORS

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° 6 x 50ml Radius(mm) : 99.9		Fixed Angle Rotor ∠25° 6 x 50ml Conical Radius(mm) : 95.7	
Item	A1215T		A1215TC		A650T		A650TC	
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)	19		17		17	29.5	17	30
Max. height for use (mm)	117		129		122	120	124	121
RPM	12,000		12,000		12,000	12,000	12,000	12,000
Radius (mm)	97.1		100.9		94.3	99.9	91.3	95.7
RCF	15,632		16,244		15,182	16,083	14,699	15,407

Rotor	Fixed Angle Rotor ∠30° 8 x 50ml Radius(mm) : 103.4		Fixed Angle Rotor ∠25° 6 x 85ml Radius(mm) : 99.8				Fixed Angle Rotor ∠25° 6 x 85ml Radius(mm) : 99.8 Aerosol-tight AXLLOCK			
Item	A850T		A685T				AS685TX 2)			
Tube										
Volume (ml)	15 Conical	50	15 Conical	50 Conical	50	85	15 Conical	50 Conical	50	85
Adaptor / tube rack										
Item	F50A-15C		F85A-15C	F85A-50C	F85A-50		F85A-15C	F85A-50C	F85A-50	
Number per rack / rotor	8	8	6	6	6	6	6	6	6	6
Adaptor bore (mm)	17	29.5	17	30	29	39	17	30	29	39
Max. height for use (mm)	123	120	123	122	118	118	123	122	118	118
RPM	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
Radius (mm)	97.8	103.4	90.7	94.8	95.3	99.8	90.7	94.8	95.3	99.8
RCF	15,745	16,647	14,602	15,262	15,343	16,067	14,602	15,262	15,343	16,067

- 2)This rotor is not externally certified and have only been self-tested for bioseal sealing.

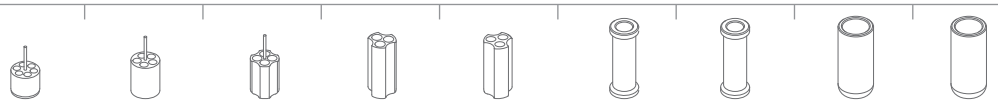
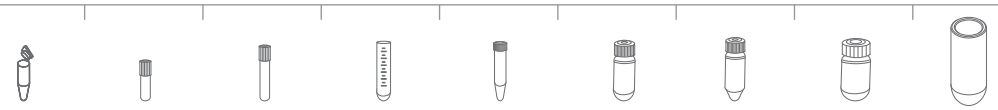
AVAILABLE SWING ROTORS

S4250TE	EB250	EBS250 3)								BW250	
	BEST									BEST	
	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		
					BEST		BEST				
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 182.5 Max. RCF : 3,265											
Capacity (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

• 3) EBS 250 : certified for dynamic microbiological test(En61010-020) by TUV NORD

S4250T	B250						
	S250T-5-8	S250T-10-7	S250T-15-5	S250T-15C-4	S250T-50-2	S250A-50C	-
Swing Out Rotor Max. RPM : 4,500 Radius(mm) : 193.5 Max RCF : 4,381							
Volume (ml)	5	10	15	15 Conical	50	50 Conical	250
Number per rack / rotor	8/32	7/28	5/20	4/16	2/8	1/4	1/4
Adaptor bore (mm)	13.5	16	17.5	17	29.5	30	62.0
Max. height for use (mm)	145	145	145	148	145	150	150
RPM	4,500	4,500	4,500	4,500	4,500	4,500	4,500
Radius (mm)	190.5	190.5	190.5	193.5	190.5	193.5	193.5
RCF	4,313	4,313	4,313	4,381	4,313	4,381	4,381

AVAILABLE SWING ROTORS

S4100T	B100								
	S100T-1.5-6	S100T-5-5	S100T-10-4	S100T-15-3	S100T-15C-3	S100A-50	S100A-50C	S100A-85	S100A-100
									
Swing Out Rotor Max. RPM : 5,000 Radius(mm) : 177 Max. RCF : 4,947									
Volume (ml)	1.5	5	10	15	15 Conical	50	50 Conical	85	100
Number per rack / rotor	6/24	5/20	4/16	3/12	3/12	1/4	1/4	1/4	1/4
Adaptor bore (mm)	11	13.5	16	17.5	17	29.5	30	38.5	44
Max. height for use (mm)	130	130	130	130	133	130	133	130	130
RPM	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Radius (mm)	174	174	174	174	177	174	177	174	174
RCF	4,683	4,683	4,683	4,683	4,947	4,683	4,947	4,683	4,683

ORDER INFORMATION

	ITEM	DESCRIPTIONS	ORDER CODE
Main Body	VARISPIN Set	VARISPIN 12R, refrigerated, with rotor S4250TE, including bucket EB250 (4EA), and tube rack S250ET-50C-3 (2EA), S250ET-15C-9(2EA), 230V/50~60Hz	V12R-SET
	VARISPIN 12R	VARISPIN 12R, refrigerated, without rotor, 230V/50~60Hz	V12R-MB
Angle Rotor	A480.2T	0.2ml x 48 fixed angle rotor for PCR tubes(x6 PCR strips) (Max 12,000RPM)	V12R-AR1
	A301.5T	1.5/2.0ml x 30 fixed angle rotor (Max 12,000RPM)	V12R-AR2
	A481.5T	1.5/2.0ml x 48 fixed angle rotor (Max 12,000RPM)	V12R-AR3
	A1215T	15ml x 12 fixed angle rotor (Max 12,000RPM)	V12R-AR4
	A1215TC	15ml x 12 fixed angle rotor for conical tubes (Max 12,000RPM)	V12R-AR5
	A650T	50ml x 6 fixed angle rotor (Max 12,000RPM)	V12R-AR6
	A650TC	50ml x 6 fixed angle rotor for conical tubes (Max 12,000RPM)	V12R-AR7
	A850T	50ml x 8 fixed angle rotor (Max 12,000RPM)	V12R-AR8
	A685T	85ml x 6 fixed angle rotor (Max 12,000RPM)	V12R-AR9
	AS301.5TX	1.5/2.0ml x 30 aerosol-tightness fixed angle rotor with Axllock lid mechanism (Max 12,000RPM)	V12R-AR10
	AS685TX	85ml x 6 aerosol-tightness fixed angle rotor with Axllock lid mechanism (Max 12,000RPM)	V12R-AR11
Swing Rotor	S4250TE	250ml x 4-wing swing rotor for rectangular/micro plate buckets (Max 4,000RPM)	V12R-SR1
	S4250T	250ml x 4-wing swing rotor for round buckets (Max 4,500RPM)	V12R-SR2
	S4100T	100ml x 4-wing swing rotor for round buckets (Max. 5,000RPM)	V15R-SR3