CRYSTE

MULTI CENTRIFUGE VARISPIN 15R

Refrigerated multi purpose centrifuge with large capacity and a variety of rotor options

STANDARD SPECIFICATION

CE

Max. RPM	15,000RPM(Angle Rotor)	5,000RPM(Swing Rotor)
Max. RCF	23,847 xg	4,947 xg
Max. Capacity	85ml x 6	750ml 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	From start / From set-up RPM	
Program	100 memory	
Rotor ID	Automatic Recognition	
Display	4.3" LCD Touch Screen	
RPM Range	400 to 15,000 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	16	
Power Supply	AC 230V ± 10%, 50-60Hz, 1Phase	
Power Consumption	2,5KW	
Dimension(W x D x H)	765 x 687 x 375 mm (H:915mm with open lid)	
Weight (without rotor)	95kg	

MAIN FEATURE

CRYSTE FLIP Touch Controller

- User-friendly 4.3" full color touch LCD controller helps to set the parameter at modern way. All set points are visible at a glance and setting is easy.
- Touch pad lock doesn't allow misuse during operation.

Biocontainment Accessory Package

- Option for handling biohazardous materials
- Biocontainment sealing buckets are certified by TUV NORD in compliance with IEC61010-2-020:2016 Annex AA.

Wide Range of Application

Various rotor options for multiple purpose in different users.

Refrigeration & Fast Cooling

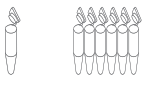
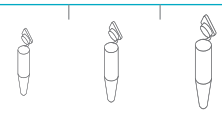
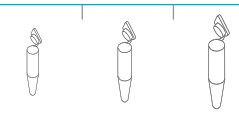
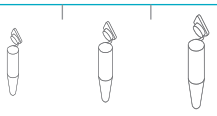
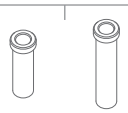
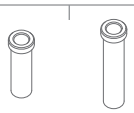
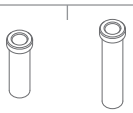
Various Tube Available

Accurate and stable temperature maintenance function

Silent Operation

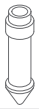
Energy Saving

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	15,000	15,000	15,000	15,000	15,000	15,000	13,000	13,000	13,000
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	20,199	21,809	23,847	20,199	21,809	23,847	In 13,283 Out 15,172	In 14,492 Out 16,381	In 16,022 Out 17,912

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

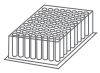
AVAILABLE ANGLE ROTORS

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)	18		17		17	29.5	17	30
Max. height for use (mm)	117		129		122	120	124	121
RPM	12,000		13,000		12,000	12,000	13,000	13,000
Radius (mm)	97.1		100.9		94.3	99.9	91.3	95.7
RCF	15,632		19,064		15,182	16,083	17,250	18,082

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]				A4250T
Tube											
Volume (ml)	15 Conical	50	15 Conical	50 Conical	50	85	15 Conical	50 Conical	50	85	250
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	4
Adaptor bore (mm)	17	29.5	17	30	29	39	17	30	29	39	62.0
Max. height for use (mm)	123	120	123	122	118	118	123	122	118	118	123
RPM	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	8,000
Radius (mm)	97.8	103.4	90.7	94.8	95.3	99.8	90.7	94.8	95.3	99.8	128.3
RCF	15,745	16,647	14,602	15,262	15,343	16,067	14,602	15,262	15,343	16,067	9,180

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

AVAILABLE SWING ROTORS

S4250TE	EB250	EBS250[3]								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											
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) EBS250 : 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

S4750T	B750	BS750 4)								B500	BW750	
	S750T-3-24	S750T-5-24	S750T-10-19	S750T-15-19	S750T-15C-14	S750T-50-7	S750T-50C-5	S750A-250				
Swing Out Rotor Max. RPM : 4,000 Radius(mm) : 205 Max. RCF : 3,667												
Capacity (ml)	3	5	10	15	15 Conical	50	50 Conical	250	750	500	MTP	DWP
Number per rack / rotor	24/96	24/96	19/76	19/76	14/56	7/28	5/20	1/4	1/4	1/4	4/16	1/4
Adaptor bore (mm)	13.2	13.2	16	17.2	17	29.5	29.5	62.5	-	70	-	-
Max. height for use (mm)	136	136	136	136	134	136	140	161	143	165	-	-
RPM	4,000	4.000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
Radius (mm)	198	198	198	198	196	198	202	205	205	213	170	170
RCF	3,542	3,542	3,542	3,542	3,506	3,542	3,613	3,667	3,667	3,810	3,041	3,041

• 4) BS750 : certified for dynamic microbiological test(EN61010-020) by TUV NORD

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
Main Body	VARISPIN 15R Set	VARISPIN 15R, refrigerated, without rotor, AC 230V ±10% 50/60Hz, EU Standard Plug
Angle Rotor	A480.2T	0.2ml x 48 fixed angle rotor for PCR tubes(x6 PCR strips) (Max 12,000RPM)
	A301.5T	1.5/2.0ml x 30 fixed angle rotor (Max 15,000RPM)
	AS301.5TX	1.5-2.0ml x 30 fixed aerosol-tightness angle rotor with AXLLOCK rotor(15,000RPM)
	A481.5T	1.5/2.0ml x 48 fixed angle rotor (Max 13,000RPM)
	A1215T	15ml x 12 fixed angle rotor (Max 12,000RPM)
	A1215TC	15ml x 12 fixed angle rotor for conical tubes (Max 13,000RPM)
	A650T	50ml x 6 fixed angle rotor (Max 12,000RPM)
	A650TC	50ml x 6 fixed angle rotor for conical tubes (Max 13,000RPM)
	A850T	50ml x 8 fixed angle rotor (Max 12,000RPM)
	A685T	85ml x 6 fixed angle rotor (Max 12,000RPM)
	AS685TX	85ml x 6 fixed aerosol-tightness angle rotor with AXLLOCK rotor(12,000RPM)
	A4250T	250ml x 4 fixed angle rotor (Max 8,000RPM)
Swing Rotor	S4250TE	250ml x 4-wing swing rotor for rectangular/micro plate buckets (Max 4,000RPM)
	S4250T	250ml x 4-wing swing rotor for round buckets (Max 4,500RPM)
	S4750T	750ml x 4-wing swing rotor for round buckets / micro plate buckets (Max 4,000RPM)
	S4100T	100ml x 4-wing swing rotor for round buckets (Max. 5,000RPM)