

CF-RX Series Compact Centrifuges

Considering safety and the environment, use the RX series!

A wide range of centrifugation and purification is achieved with various functions and outstanding ease of operation.

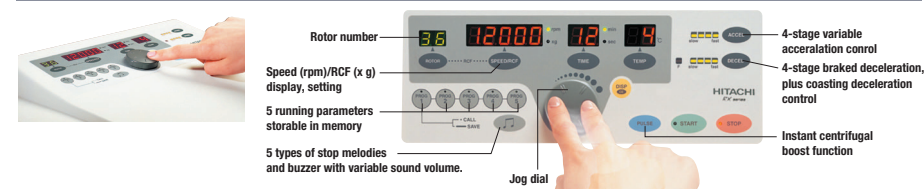
Reliable control at low-speed rotation!

- Controllable in 10 rpm increments from 300 rpm through 5,000 rpm.
- Best for centrifuging cells, etc. with a middle-capacity swinging bucket rotor (T4SS31/T5SS31).
- Swinging bucket rotor (T5S32) for microplate also usable.

Best for processing varied samples!

- Multi-place rotor (T3SS1/T3SS2) of 15 ml x 80 can be used.
- Accepts up to 50 g imbalance when combined with automatic balancing rotor. (T3SS2)
- Newly developed 2-axis coaxial drive motor enables stabilized centrifugation of low-speed high-capacity rotors and high-speed rotors. **PAT. P**

Easy-to-use jog dial



Global standard

Safer compact centrifuges! Compliance with CE marking requirements

- **Mechanical safety (Compliance with IEC 61010-2-020 requirements)**
 - CF5RX/CF9RX/CF12RX centrifuges have passed the MCA (maximum credible accident) test. This test confirms that no fragments are expelled from the centrifuge in the event of an accident.
- **Electrical safety (Compliance with IEC 61010-2-020 requirements)**
 - Operator safety is ensured even under a single fault condition.
 - Double electric insulation construction for prevention of electric shock and all units have passed a general inspection under high-voltage conditions.
- **Electromagnetic compatibility (EMC Directive: Compliance with EN61326 and other requirements)**
 - Strong immunity to erroneous operation or other malfunction from external electromagnetic emissions. (Protection from nearby lightning strikes and static electricity in dry winter air.)
 - Negligible electromagnetic emissions that would make peripheral equipment operate erroneously.

Environment-friendly design

Meeting Hitachi's environmental standards!

- Hitachi himac CF5RX/CF9RX/CF12RX centrifuges are environment-friendly products.
 - More recyclable, energy-saving and resource-saving than the conventional models in the market.
 - Reduced the use of hazardous substances

CF-RX series specifications

Model	CF5RX	CF9RX	CF12RX
Type of centrifuge	Refrigerated compact	Versatile high-capacity	Versatile high-capacity
Maximum speed (rpm)	5,000	9,000	12,000
Maximum RCF (x g)	4,170 (T5SS31 rotor)	10,600 (T9A31 rotor)	16,100 (T14A31 rotor)
Drive motor*	Inverter motor (brushless)		
Rotation control range (rpm)	300 to 5,000	300 to 9,000	300 to 12,000
Timer	5-55 sec/1-99 min., with HOLD function		
Temperature setting range (°C)	-9 to +40		
Dimensions (mm)	490 (W) x 550 (D) x 852 (H)	600 (W) x 632 (D) x 876 (H)	600 (W) x 632 (D) x 876 (H)
Power requirements	AC115V~10%, 15A, 60Hz		
	AC200/208V~10%, 8A, 50/60Hz		
	AC220/230/240~10%, 8A, 50Hz		
Weight (kg)	AC115V	136	136
	AC200-240V	142	142

Notes: 1. CF9RX/CF12RX are centrifuges designed exclusively for automatic identification rotors (ID rotors **PAT.**). They cannot use conventional-type (non-automatic identification) rotors.
 2. CF5RX is compatible with both automatic identification rotors (ID rotors **PAT.**) and non-automatic identification rotors. Non-automatic identification rotors, however, cannot be identified its model automatically.
 3. CF9RX/CF12RX use a newly developed 2-axis coaxial drive motor system.
 4. CF-RX series compact centrifuges comply with the CE marking.

Versatile
High-Capacity
Centrifuges

Refrigerated
Compact
Centrifuge



himac CF-RX SERIES
CF5RX/CF9RX/CF12RX

CF5RX/CF9RX/CF12RX -compatible rotors



CF5RX/CF9RX/CF12RX -compatible rotors



Adapters for T5SS31

CF5RX
-compatible rotorsCF9RX/CF12RX
-compatible rotors(used with an optional bucket)

Adapters for T4SS31



CF-RX series rotor list

x: Not usable

Type	Model	Part No. (ID rotor)	Max. nominal tube capacity (ml x number of tubes **)	ID No.	Max. speed (rpm) (max. RCF (x g))		
					CF5RX	CF9RX	CF12RX
High-capacity fixed angle, horizontal rotor	T6AP31	90590700	50TC x 8	25	5,000 (3,310)	6,000 (4,770)	6,000 (4,770)
	T8H31	90588500	MP (0.2 x 98) x 4	23	5,000 (2,780)	8,000 (7,100)	8,000 (7,100)
	T9A31	90587400	50TC x 8	24	5,000 (3,270)	9,000 (10,600)	9,000 (10,600)
	T11A33	90588700	50 x 8	28	5,000 (2,990)	9,000 (9,700)	11,000 (14,500)
	T11A34	90588800	80 x 6 (50TC x 6)	29	5,000 (3,050)	9,000 (9,900)	11,000 (14,800)
	T15A41	90591300	50TCx4 or 15TCx4	42	5,000 (2,470)	9,000 (8,010)	12,000 (14,250)
	T15A42	90591400	50TCx4 or 15TCx4	42	5,000 (2,470)	9,000 (8,010)	12,000 (14,250)
	T11A32	90588300	2 x 48	32	5,000 (2,490/2,320)	9,000 (8,100/7,500)	11,000 (12,000/11,200)
	T12A31	90590100	PCR tube 0.2 x 48	33	5,000 (2,440)	9,000 (7,900)	12,000 (14,100)
	T15S31 *	90588200	2 x 16	34	5,000 (2,170)	9,000 (7,000)	12,000 (12,500)
High-speed fixed angle rotor for microtube	T15H31 *	90590000	2 x 48	35	5,000 (2,070)	9,000 (6,700)	12,000 (11,900)
	T16A31	90587500	2 x 18	36	5,000 (2,090)	9,000 (6,800)	12,000 (12,100)
	T14A31	90588600	2 x 30	37	5,000 (2,790)	9,000 (9,000)	12,000 (16,100)
	T15AP31	90589300	2 x 18	41	5,000 (2,090)	9,000 (6,800)	12,000 (12,100)
	T15A34	90589500	10 x 8	44	5,000 (2,070)	9,000 (6,700)	12,000 (11,900)
	T15A35	90589600	30 x 6	45	5,000 (2,330)	9,000 (7,600)	12,000 (13,400)
	T15A36	90589700	50 x 4 (15TC x 4)	46	5,000 (2,430)	9,000 (7,900)	12,000 (14,000)
	T15A37	90589800	80 x 4	47	5,000 (2,320)	9,000 (7,500)	12,000 (13,300)
	T15A38	90590800	2 x 36	48	5,000 (2,400/2,000)	9,000 (7,700/6,600)	12,000 (13,800/11,700)
	T15A39	90589900	2 x 24	49	5,000 (2,390)	9,000 (7,700)	12,000 (13,700)
	T15A43	90591500	2/1.5 x 36 0.2 x 18	43	5,000 (2,400/2,040)	9,000 (7,780/6,600)	12,000 (13,830/11,740)
	T15A44	90591600	2/1.5 x 18 0.5 x 18 0.2 x 18	43	5,000 (2,400/2,040)	9,000 (7,780/6,600)	12,000 (13,830/11,740)
Multi-place swinging bucket rotor	T5SS31	90587700	250 x 4 (15TC x 16)	50	4,800 (4,170)	4,800 (4,170)	4,800 (4,170)
	T5S32	90587600	96DW/96MP x 2	55	4,800 (3,120)	4,800 (3,120)	4,800 (3,120)
	T5S33	90591700	96DWx4 or 96MPx12	56	4,700 (3,100)	x	x
	T4SS31	90588100	50TC x 8	60	4,000 (2,900)	4,000 (2,900)	4,000 (2,900)
	T3S51 *	90590400	500 x 4	65	x	3,000 (2,150)	3,000 (2,150)
	T3S52 *	90590500	500 x 4	66	x	3,000 (2,150)	3,000 (2,150)

Notes: 1. * Buckets are optional items.

2. ** MP: microplate; TC: culture tube; 96DW: 96-hole deep well plate; 96MP: 96-hole microplate.

Regarding rotors that can revolve culture tubes, the maximum nominal capacity is shown in { }.

3. For specifications of tubes, bottles and adapters, see p. 34.

Optional accessories: Rotors for CF5RX CF9RX CF12RX

Type	Model (Part No.)	Max. speed (rpm)	Max. RCF (x g)	Nominal capacity (ml x number of samples)	Bucket (box)		Tube adapter		Tube/bottle				
					Part No.	Name	Part No.	Name	Part No.	Name	Tube size (φ x L) mm	Selling unit	
For microtube	T12A31 (90590100)	12,000	14,100	For PCR 0.2 x 48	—	—	—	—	Maker	Single tube (without cap)	8-series cap	8-series cap	12-series cap
					—	—	—	—	Perkin Elmer	N801-0533 N801-0553 N801-0833 N801-1533	N801-0535 N801-0835 N801-1535	N801-0534 N801-0834 N801-1534	
									Sarstedt	—	RCR-02	RCR-0208	RCR-02CP
									Evergreen	—	214-3456	—	—
	T16A31 (90587500)	16,000	21,400	2/1.5 x 18	For 0.2PCR tubes 489238A 0.5 adapter (4 pcs/set)	487292A	0.4 adapter (4 pcs/box)	—	0.25PP tube	5.7 x 35	—	—	
						—	0.4PE tube	5.7 x 46	—	—			
	T14A31 (90588600)	14,000	21,900	2/1.5 x 30		489237A	glass adapter (A) (4 pcs/box)	489240A	0.5 glass tube	9 x 35	—	—	
						489238A	0.5 adapter (4 pcs/box)	489239A	0.5 round bottom glass tube	6 x 47	100 pcs/box	—	
	T15AP31 (90589300)	15,000	18,800	2/1.5 x 18		487293A	0.75 adapter (4 pcs/box)	—	0.5PP tube	7.8 x 30	—	—	
						—	—	—	0.7PP tube	10.8 x 25	—	—	
	T15A39 (90589900)	15,000	21,500	2/1.5 x 24		489237A	glass adapter (A) (4 pcs/box)	489240A	0.5 glass tube	9 x 35	—	—	
						—	—	489241A	1.0 round bottom glass tube	9 x 35	100 pcs/box	—	
	T15A38 (90590800)	15,000	21,600	2/1.5 x 36		—	—	—	1.5PP tube	10.8 x 39	—	—	
						—	—	—	2.0PP tube	10.8 x 40.5	—	—	
	T11A32 (90588300)	11,000	12,000 11,200	2/1.5 x 48	—	—	—	—	—	—	—		
					—	—	—	0.25PP tube	5.7 x 35	—	—		
	T15S31 (90588200)	15,000	19,500	0.25 x 40	S407958A	0.4S3	487292A	0.4 adapter (4 pcs/box)	—	0.4PE tube	5.7 x 46	—	
				0.25 x 16	S407956A	1.5S3	487292A	0.4 adapter (4 pcs/box)	489240A	0.5 glass tube	9 x 35	100 pcs/box	
				0.4 x 40	S407958A	0.4S3	489237A	0.5 adapter (4 pcs/box)	489239A	0.5 round bottom glass tube	6 x 47	100 pcs/box	
				0.4 x 16	—	—	487293A	0.75 adapter (4 pcs/box)	489241A	0.5PP tube	7.8 x 30	—	
			0.5 x 16	S407957A	0.75S3	—	—	—	0.7PP tube	10.8 x 25	—		
			0.7 x 16	—	—	—	—	—	1.5PP tube	10.8 x 39	—		
			1.0 x 16	S407956A	1.5S3	489237A	glass adapter (A) (4 pcs/box)	489241A	1.0 round bottom glass tube	9 x 35	100 pcs/box		
			1.5 x 16	—	—	—	—	—	1.5PP tube	10.8 x 39	—		
			2.0 x 16	—	—	—	—	—	2.0PP tube	10.8 x 40.5	—		
				—	—	—	—	—	0.25PP tube	5.7 x 35	—		
T15H31 (90590000)	15,000	18,600	0.25 x 60	S409874A	0.4H3	487292A	0.4 adapter (4 pcs/box)	—	0.4PE tube	5.7 x 46	—		
			0.25 x 48	S409872A	1.5H3	487292A	0.4 adapter (4 pcs/box)	—	—	—	—		
			0.4 x 60	S409874A	0.4H3	—	—	—	—	—	—		
			0.4 x 48	S409872A	1.5H3	487292A	0.4 adapter (4 pcs/box)	—	—	—	—		
			0.5 x 60	S409873A	0.75H3	—	—	—	—	—	—		
				—	—	489237A	glass adapter (A) (4 pcs/box)	489240A	0.5 glass tube	9 x 35	100 pcs/box		
				—	—	489238A	0.5 adapter (4 pcs/box)	489239A	0.5 round bottom glass tube	6 x 47	100 pcs/box		
				—	—	487293A	0.75 adapter (4 pcs/box)	489241A	0.5PP tube	7.8 x 30	—		
			0.7 x 48	S409872A	1.5H3	489237A	glass adapter (A) (4 pcs/box)	489241A	1.0 round bottom glass tube	9 x 35	100 pcs/box		
			1.0 x 48	—	—	—	—	—	1.5PP tube	10.8 x 39	—		
			1.5 x 48	—	—	—	—	—	2.0PP tube	10.8 x 40.5	—		
			2.0 x 48	—	—	—	—	—	—	—	—		
T15A43	15,000	21,800 (15,800/15,200) (18,400/18,000) (19,900/19,500)	1.5/2.0 x 36	—	—	—	—	—	2.0ml microtube 1.5ml microtube	10.8 x 39	—	—	
			0.2 x 18	—	—	—	—	—	2.0ml microtube 1.5ml microtube	6.4 x 24	—	—	
T15A44	15,000	21,800 (15,800/15,200) (18,400/18,000) (19,900/19,500)	1.5/2.0 x 18	—	—	—	—	—	2.0ml microtube 1.5ml microtube	10.8 x 39	—	—	
			0.5 x 18	—	—	48923A	glass adapter(A) (4 pcs/box)	489241A	1.0 round bottom glass tube	9 x 35	100 pcs/box		
			—	—	—	—	—	—	0.5ml microtube	7.8 x 30	—	—	
			—	—	—	48923A	glass adapter(A) (4 pcs/box)	489240A	0.5 glass tube	9 x 35	100 pcs/box		
			0.2 x 18	—	—	—	—	—	0.2ml PCR tube	6.4 x 24	—	—	
For medium capacity	T15A34 (90589500)	15,000	18,800	8.5 x 8	—	—	—	—	334105A	10PA bottle ass'y	16 x 81	10 pcs/box	
				9 x 8	—	—	—	—	325952A	10PC bottle ass'y	16 x 81	10 pcs/box	
				9.1 x 8	—	—	—	—	S303922A	10PC bottle (B) ass'y	16 x 82	6 pcs/box	
	T15A35 (90589600)	15,000	21,100	26 x 6	—	—	—	—	S303924A	30PC bottle (B) ass'y	25 x 97	6 pcs/box	
				28.5 x 6	—	—	—	—	S30345A	30PA bottle ass'y	25 x 97	10 pcs/box	
	T15A36 (90589700)	15,000	21,800	11 x 4	—	S407959A	15TA50 adapter (2 pcs/box)	15 ml culture tube (marketed product): Falcon, Sarstedt, Sumilon					
				33 x 4	—	—	—	S306352A	50PP bottle ass'y	29 x 106	10 pcs/box		
				35 x 4	—	—	—	328352A	50PC bottle ass'y	—	10 pcs/box		
				42 x 4	—	—	—	S302921A	50PC bottle (B) ass'y	29 x 108	10 pcs/box		
				73 x 4	—	—	—	S303927A	80PC bottle (B) ass'y	38 x 106	6 pcs/box		
T15A37 (90589800)	15,000	21,200	73 x 4	—	—	—	—	S307904A	50PP himac50TC tube	30 x 110	300 pcs/box		
T15A41*	15,000	22,200	50 x 4	—	—	—	—	352096	15PP tube	17 x 120	—		
			15 x 4	—	—	—	—	S307904A	50PP himac50TC tube	30 x 110	300 pcs/box		
T15A42*	15,000	22,200	50 x 4	—	—	—	—	352096	15PP tube	17 x 120	—		
			15 x 4	—	—	—	—	—	—	—	—		

Optional accessories: Rotors for **CF5RX/CF9RX/CF12RX**

Model (Part No.)	Max. speed (rpm)	Max. RCF (x g)	Nominal capacity (ml x number of samples)	Bucket (box)		Tube adapter		Tube/bottle						
				Part No.	Name	Part No.	Name	Part No.	Name	Tube size (ø x L) mm	Selling unit			
T6AP31 (90590700)	6,000	4,770	50 (TC) x 8	—	—	S409424A	15TA50T adapter (B) (2 pcs/box)	—	50ml culture tube 15ml culture tube	30 x 115 17 x 120	—			
T9A31 (90587400)	9,000	10,600	50 (TC) x 8	—	—	S409424A S408945A	15TA50T adapter (B) (2 pcs/box) 13A50T adapter (B) (2 pcs/box)	—	50ml culture tube 15ml culture tube 13ml round bottom culture tube	30 x 115 17 x 120 17 x 101	—			
T11A33 (90588700)	11,000	14,500	50 x 8	—	—	—	—	S306352A 328352A S302921A	50PP bottle ass'y 50PC bottle ass'y 50PP bottle (B) ass'y	29 x 106 29 x 106 29 x 108	10 pcs/box 10 pcs/box 10 pcs/box			
T11A34 (90588800)	11,000	14,600	80 x 6 80 x 6 50 (TC) x 6	—	—	—	—	S308433A 332094A	70PC bottle (B) ass'y 80PA bottle ass'y	38 x 106 38 x 108	6 pcs/box 10 pcs/box			
T5SS31 (90587700)	4,800	4,170	5 x 28	Incl.	—	—	—	Incl.	50TA80 (6 pcs/box)	30 x 115	—			
	4,800	4,170	7 x 28			S409812A	5 x 7S adapter (4 pcs/box)	—	4 - 5ml collect blood tube	12 - 13 x 75 - 78	—			
	3,000	1,630	10 x 28			S409811A	10 x 7S adapter (4 pcs/box)	—	7ml collect blood tube	12 - 13 x 100	—			
	4,800	4,170	10 x 28			S409810A	15 x 7S adapter (4 pcs/box)	—	10ml collect blood tube	16.0 x 100	—			
	3,000	1,630	15 x 28			—	—	464976A	15 glass tube ass'y	16.5 x 115	50 pcs/box			
	4,800	3,990	50 x 4			S409813A	50 x 1S adapter (4 pcs/box)	473866A	50 glass tube ass'y	35.0 x 100	10 pcs/box			
	4,800	4,170	15 (TC) x 12			S409976A	15TC x 3S adapter (4 pcs/box)	—	15ml culture tube	17 x 120	—			
	4,800	4,170	15 (TC) x 16			S409814A	15TC x 4S adapter (4 pcs/box)	—	15ml culture tube	17 x 120	—			
	4,800	4,170	50 (TC) x 4			S409815A	50TC x 1S adapter (4 pcs/box)	—	50ml culture tube	30 x 115	—			
	4,800	4,170	160 x 4			S410251A	160 x 1S adapter (4 pcs/box)	S306847A	160PP bottle ***	52.0 x 120	10 pcs/box			
	—	—	—			—	—	S306848A	160PC bottle ***	52.0 x 120	10 pcs/box			
	4,800	4,170	250 x 4			—	—	S410008A	160 cap	—	2 pcs/box			
	4,800	4,170	250 x 4			—	—	**	250PPCO flat-bottom bottle	61.6 x 135	(Nalgene)			
	4,800	4,170	250 x 4			—	—	**	250PC flat-bottom bottle	61.6 x 135	(Nalgene)			
	Shield cap S410252A Shield cap (4 pcs/box), but not used with 15TC x 4S adapter and 250 bottle.													
T5S32 (90587600)	4,800	3,120	96DW x 2 96MP x 2 0.2 x 192 2/1.5 x 48	Incl.	—	—	—	—	96-hole Deep Wellplate 96-hole microplate 0.2ml tube for PCR	128 x 86 x 55 (H) 128 x 86 x 14 (H)	—			
T5S33 (90591700)	4,700	3,100	96DW x 4 96MP x 12	—	—	—	—	—	2.0/1.5PP tube 96-hole Deep Wellplate 96-hole microplate	10.8 x 40.5 128x86x55(H) 128x86x14(H)	—			
T4SS31 (90588100)	4,000	2,380	5 x 32	Incl.	—	S307332A	5 x 8S adapter (4 pcs/box)	—	4 - 5ml collect blood tube	12 - 13 x 75 - 78	—			
	4,000	2,860	7 x 32			S307333A	10 x 8S adapter (4 pcs/box)	—	7ml collect blood tube	12 - 13 x 100	—			
	3,600	2,320	10 x 32			—	—	464977A	10 glass tube ass'y	12.0 x 105	50 pcs/box			
	4,000	2,860	10 x 32			S307334A	15 x 8S adapter (4 pcs/box)	—	10ml collect blood tube	16.0 x 100	—			
	3,600	2,320	15 x 32			—	—	464976A	15 glass tube ass'y	16.5 x 105	50 pcs/box			
	4,000	2,900	15 (TC) x 24			S307335A	15TC x 6S adapter (4 pcs/box)	—	15ml culture tube	17 x 120	—			
	4,000	2,860	50 (TC) x 8			S307336A	50TC x 2S adapter (4 pcs/box)	—	50ml culture tube	30 x 115	—			
	4,000	2,860	10 x 4			S308695A	10x10SB adapter(4pcs/box)	—	10-4ml collect blood tube	—	—			
	4,000	2,900	5 x 28			S409812A	5 x 7S adapter (4 pcs/box)	—	4 - 5ml collect blood tube	12 - 13 x 75 - 78	—			
	4,000	2,900	7 x 28			S409811A	10 x 7S adapter (4 pcs/box)	—	7ml collect blood tube	12 - 13 x 100	—			
	3,000	1,630	10 x 28			—	—	464977A	10 glass tube ass'y	12.0 x 105	50 pcs/box			
	4,000	2,900	10 x 28			S409810A	15 x 7S adapter (4 pcs/box)	—	10ml collect blood tube	16.0 x 100	—			
	3,000	1,630	15 x 28			—	—	464976A	15 glass tube ass'y	16.5 x 105	50 pcs/box			
	4,000	2,770	50 x 4			S409813A	50 x 1S adapter (4 pcs/box)	473866A	50 glass tube ass'y	35.0 x 100	10 pcs/box			
Round bucket	4,000	2,900	15 (TC) x 12	Incl.	—	S409976A	15TC x 3S adapter (4 pcs/box)	—	15ml culture tube	17 x 120	—			
	4,000	2,900	15 (TC) x 16			S409814A	15TC x 4S adapter (4 pcs/box)	—	15ml culture tube	17 x 120	—			
	4,000	2,900	50 (TC) x 4			S409815A	50TC x 1S adapter (4 pcs/box)	—	50ml culture tube	30 x 115	—			
	4,000	2,900	160 x 4			S410251A	160 x 1S adapter (4 pcs/box)	S306847A	160PP bottle ***	52.0 x 120	10 pcs/box			
	—	—	—			—	—	S306848A	160PC bottle ***	52.0 x 120	10 pcs/box			
	4,000	2,900	250 x 4			—	—	S410008A	160 cap	—	2 pcs/box			
	4,000	2,900	250 x 4			—	—	**	250PPCO flat-bottom bottle	61.6 x 135	(Nalgene)			
	4,000	2,900	250 x 4			—	—	**	250PC flat-bottom bottle	61.6 x 135	(Nalgene)			
	Shield cap S410252A Shield cap (4 pcs/box) can be used with round bucket adapter, but not used with 15TC x 4S adapter and 250 bottle.													
	T8H31 (90588500)	8,000	7,100			(0.2 x 96)	—	—	—	—	—	Micro Amp optical 96 - well reaction plate *Applied Biosystems Co., Ltd.	—	—

Notes: 1. ■ indicates tubes available on the market. Purchase directly from your local supplier.
2. *T15A41, T15A42 can use 50 ml and 15 ml culture tubes without adapters. However, it cannot utilize these tubes at the same time, so use only one of them at a time.
Self-standing-type culture tubes cannot be used.
3. When ordering bucket sets, tubes and bottles, please reconfirm the Part No. for the specified product before placing your order.

4. **Wide-opening-type bottles manufactured by Nalgene®. Nalgene® product part Nos. are 250PPCO bottle: 3141-0250; 250PC bottle: 3140-0250.
5. ***Caps are not included with 160PP/PC bottles. Please purchase 160 caps separately for use with these bottles.

Optional accessories: Rotors for **CF9RX/CF12RX**

Model (Part No.)	Max. speed (rpm)	Max. RCF (x g)	Nominal capacity (ml x number of sample)	Bucket (box)		Applicable rack/adaptor		Tube/bottle			
				Part No.	Name	Part No.	Name	Part No.	Name	Tube size (ø x L)mm	Selling unit
T3S51 (90590400) Without bucket	3,000	2,150	500 x 4	S304312B	Bucket (4 pcs/box)	—	—	S303830A	500PA tube	98 x 100	4 pcs/box
			10 x 144			S301437A	Square rack BL (4 pcs/box)	464977A	10 glass tube	12 x 120	50 pcs/box
			7 x 120			S301438A	Square rack GR (4 pcs/box)	—	5ml-7ml glass tube	13-14 x 120	—
			15 x 80			S301439A	Square rack YE (4 pcs/box)	464976A	15 glass tube	16.5 x 120	50 pcs/box
			50 x 16			S301440A	Square rack OR (4 pcs/box)	473866A	50 glass tube	36.5 x 120	10 pcs/box
			10 x 144			S307169A	Square rack BL (B) (4 pcs/box)	464977A	10 glass tube	12 x 120	50 pcs/box
			7 x 120			S307170A	Square rack GR (B) (4 pcs/box)	—	5ml-7ml glass tube	13-14 x 120	—
			15 x 80			S307171A	Square rack YE (B) (4 pcs/box)	464976A	15 glass tube	16.5 x 120	50 pcs/box
			50 x 16			S307172A	Square rack OR (B) (4 pcs/box)	473866A	50 glass tube	36.5 x 120	10 pcs/box
			50 x 28*			S305213A	50T7S adapter (4 pcs/box)	—	Culture tube (Sarstedt, Iwaki, Sumilon, Falcon)	30 x 115	—
			50 x 24			S307309A	Square rack 29.5 x 6 (B) (4pcs/box)	—	50ml culture tube (freestanding/conical bottom)	30 x 115	—
			5 x 80			S303779A	Square rack 13.2 x 20 (4 pcs/box)	—	Terumo Venoject	12.4 x 75	—
			7 x 80					—	Terumo Venoject II	12.4 x 100	—
			5 x 80					—	—	13.2 x 78	—
			7 x 80					—	—	13.2 x 100	—
		4 x 80	—	—	12.6 x 75			—			
		5 x 80	—	—	—	13.1 x 75	—				
		7 x 80	—	—	—	13.3 x 75	—				
		5 x 80	—	—	—	Sekisui Greiner Insepack	12.7 x 75	—			
		7 x 80	—	—	—	—	12.7 x 103	—			
		2,050	1.5 x 112	S303783A	Square rack 11.4 x 28 (4 pcs/box)	—	1.5ml micro tube	11 x 39	—		
		2.0 x 112	—			2.0ml micro tube	—	—			
		10 x 80	S303781A			Square rack 15.5 x 20 (4 pcs/box)	—	Terumo Venoject	15.4 x 100	—	
6 x 80	—	Terumo Venoject II, Sekisui Greiner Insepack					15.6 x 100	—			
100 x 8	—	Sekisui Insepack					15.2 x 75	—			
225 x 4	S303582A	Square rack 46 x 2		—	Nichiden-Rika Glass Co.,Ltd. Round bottom glass tube		45 x 120	—			
175 x 4			S303580A	Tube rack 61 x 1 (4 pcs/box)	—	Culture tube (Falcon)**	60 x 140	—			
15 x 48					—	—	60 x 120	—			
—					—	Culture tube (Sarstedt, Iwaki, Sumilon, Falcon)	17 x 120	—			
The same specification as for bucket, above.	2,000	850	96/120MP x 4 (4 pcs/box)	S300711A	M2 bucket (4 pcs/box)	—	—	—	96/120-hole microplate	128 x 86 x 34	—
						—	—	—	Microplate/Deep well plate	128 x 86 x 92	—
						—	—	—	—	—	—
						—	—	—	—	—	—
						—	—	—	—	—	—
3,000	2,010	96MP/DW x 4 (4 pcs/box)	S305173A	MP2 bucket (4 pcs/box)	—	—	—	Microplate/Deep well plate	128 x 86 x 92	—	
T3S52 (90590500) With Automatic balancer Without bucket	The same specification as for T3S51, above.			S304312B	Bucket (4 pcs/box)	The same rack/adaptor/tube/bottle as for T3S51 can be used.					
				S304311B	Shield bucket (4 pcs/box)	The T3S52 swinging bucket rotor equips it with unique automatic balancer. Max. 50g/bucket imbalance condition can be compensated by the automatic balancer. PAT.					
				S300711A	M2 bucket (4 pcs/box)						
				S305173A	MP2 bucket (4 pcs/box)						

Notes: 1. ■ indicates tubes available on the market. Purchase directly from your local supplier.

2. *Freestanding 50 ml culture tube cannot be used.
3. Falcon is registered trademark of Becton Dickinson and Company. Iwaki is registered trademark of Iwaki Glass Co., Ltd. Sarstedt is registered trademark of Nichiden-Rika Glass Co., Ltd. Sumilon is registered trademark of Sumitomo Bakelite Co., Ltd. BIO-BIK is registered trademark of Ina-Optica Co., Ltd.

4. **To prevent deformation, be sure to use Falcon-brand cushions (PN2090) without fail.
5. ***The PCR plate requires the PCR tube rack (LP-0351) made by Funakoshi Co., Ltd.

■ Square racks/buckets/adaptor for T3S51/T3S52

