

TOMY

Suprema

HIGH SPEED REFRIGERATED CENTRIFUGE

Suprema 25 *Suprema 21*

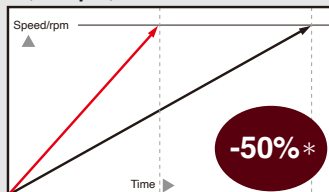


Quick Acceleration and Deceleration SUPREMA series realize to shorten spinning time and to speed up laboratory work.

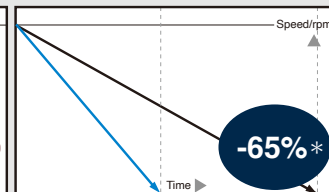
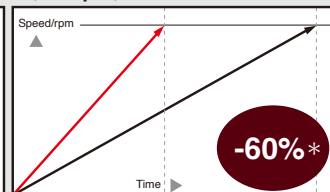
Acceleration and deceleration times are reduced by nearly 50%, compared to previous models. SUPREMA series minimize loss of operation time.

Suprema25
Previous models

NA-11
12,000rpm, 250ml x 6 tubes



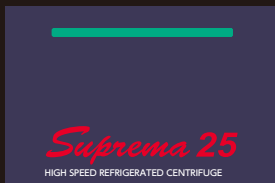
NA-4HS
21,000rpm, 50ml x 8 tubes



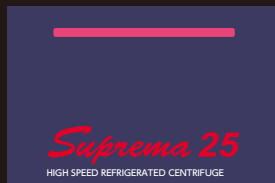
*Compared to the previous model with an equivalent rotor, acceleration and deceleration times are reduced with these percentages approximately.

User Friendly Front Indicator

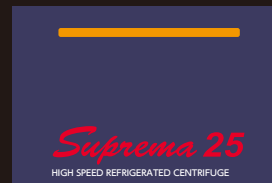
The Front Indicator (green/red/orange line indicator) permits monitoring the operation status from a distance.



The green line indicator lights up when the system is turned on.



The red line indicator lights up when the rotor type is being identified or the rotor is spinning.



The orange line indicator flashes in case errors occur in the system and relevant error messages are displayed on the LCD.



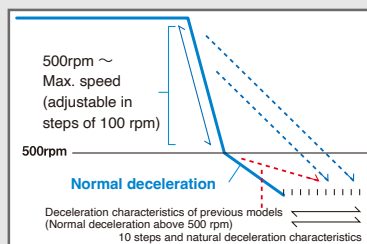
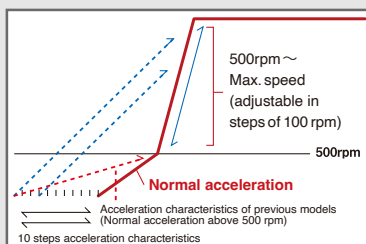
Multiple memory functions Easy-to-use and convenient LCD

The LCD display on the control panel features such special functions as history and memory functions as well as memory settings for information and operation conditions on the centrifuge program.

- A simple memory function allows setting three operation conditions for each rotor.
- 99 memory settings can be stored.

10-step acceleration characteristics and 10-step and natural deceleration characteristics

The initial value of acceleration and deceleration characteristics is adjusted between 0 and 500 rpm, however, the function setting allows to set the adjustable rotation speed to the maximum speed of the rotor in use, adjustable in steps of 100 rpm.



Sample temperature display

SUPREMA Series high speed refrigerated centrifuge control and maintain the sample temperature near the set temperature using the data from chamber temperature, rotor types and rotational frequency and display the value estimated from each data as actual sample temperature.

Design incorporates friendliness to the global environment and safety

- HFC R404A with the ODP = 0.0, which contains no chlorine to destroy the ozone layer, is used to reduce environmental impact.
- Imbalance detection system: The system prevents operation when the rotor is unbalanced and the maximum permissible imbalance value is exceeded, and automatically slows the rotor down and stops.
- Safety devices: Lid interlock, lid Open/Close Detector, Overspeed Detector, Overcurrent Detector (power switch), Motor Overcurrent Detector, Temperature Error Detector (high or low temperature)



Suprema 25

6 tubes × 1,000ml Large Volume Rotor With the lightweight aluminum rotor, large volume of samples can be centrifuged.



NA-610

7,000rpm : 11,120G
For Suprema 25



Suprema 21

- Programmed operation function
Several operation conditions can be programmed during a centrifuging operation and automatically executed in linear sequence. This function allows to store five programs in five different combinations.
- Centrifugal acceleration integrator function
- Capable of consecutive spins

Model	Suprema25	Suprema21
Maximum Speed	25,000rpm	21,000rpm
Maximum RCF	60,110G	46,850G
Maximum Capacity	1,000ml×6 tubes	1,000ml×4 tubes
Speed Control	Microprocessor	
Motor	Induction Motor	
Drive System	Direct Drive	
Data Entry	Jog Dial	
Speed Setting Range	0 to 25,000rpm (100rpm increments)	0 to 21,000rpm (100rpm increments)
RCF Setting Range	0 to 60,110G (10G increments)	0 to 46,850G (10G increments)
Temperature Setting Range	-9 to 35°C (1°C increment)	
Time Setting Range	0 to 50sec.(10sec. increments), 0:01 to 9:59 (1min. increment), 10 to 24hours (1hours increment), Free	
Acceleration/Deceleration Setting	Acceleration : 10 steps, Deceleration : 10 steps and Free	
Memory Function	3 Memories for each rotor with Memory Keys and 99 Memories with Menu Key	
Program Operation	○	—
RCF Integrated Operation	○	—
Continuous Flow Rotor	○	—
Other Function	Rotor Speed Automatic Setting with BART Code, Radius Setting, Date and Time Display	
Safety Devices	Lid Interlock System, Lid Open / Close Detector, Overspeed Detector, Imbalance Detector, Overcurrent Detector, Rotor Identification System, Motor Overcurrent Detector, Temperature Error Detector	
Refrigerant	HFC R404A	
Power Requirement	1-Phase AC 220/230/240V, 50Hz/60Hz, 30A	
Rated Current	21A	18A
Power Consumption (Heat output)	3.3kW (2,840 kcal/h)	2.6kW (2,240 kcal/h)
Dimensions W×D×Hmm (Except projection)	715W×794D×1,017H mm (Height to Operation Table : 869H mm)	570W×794D×1,018H mm (Height to Operation Table : 869H mm)
Net Weight	265kg	215kg
Accessories	Operator's Manual 1 Digital Warranty Information 1 Inspection Sheet 1 Clear Case 1 Attachment Screw 1 Level 1 Special Tool for Continuous Flow Rotor Use (for Suprema25) 1 Rotor puller 1	

Rotor Specifications

Rotor	Max.Capacity (ml x tubes)	Max.Speed (rpm)	Max.RCF (G)
NA-1	50×6	22,000	51,420
NA-3HS *1	10×16	21,000	50,300
NA-4HS *1	50×8	21,000	48,820
NA-8	50×12	15,000	31,200
NA-11	250×6	12,000	22,540
NA-12	100×8	15,000	30,700
NA-16 *2	500×4	11,000	18,270
NA-18 *2	500×6	10,000	17,780
NA-20	1.5×24	20,000	43,840
NA-22 *3	50×8	14,000	26,740
NA-400	1,000×4	9,000	15,220
NA-610 *4	1,000×6	7,000	11,120
NC-1 *4	1,000ml	17,000	31,350
NC-2 *4	1,000ml	14,000	21,260

Rotor	Bucket	Rack	Max.Capacity (ml x tubes)	Max.Speed (rpm)	Max.RCF (G)
TS-4N	S4096-02		Microplate ×4	1,800	510
TS-7N	7115-08		15×32	3,500	2,380
	7015-08		15×32	3,500	2,190
	7050-02		50×8	3,500	2,150
	7015-06		15×24	3,600	2,320
	7215-06		15×24	3,600	2,430
	7150-01		50×4	5,000	4,670
	7050-01		50×4	4,000	2,810
	7M5015-1		50×4 + 15×16	3,500	2,370
	B407	0705-10P	Veno-Ject II 5×40	3,100	1,670
0705-FA10P		FACS Tube 5×40	3,100	1,670	
SC-2		8×4	1,600	420	
TS-41N	B241	AS41-96D	Deepwell plate ×4 *5 Microplate ×8	4,500	3,150

Rotor	Bucket	Rack	Max.Capacity (ml x tubes)	Max.Speed (rpm)	Max.RCF (G)		
TS-33N	B433 *6		250 × 4	5,000	4,720		
		3350-TC01P	50 × 4		4,670		
		3350-G01P	50 × 4		4,500		
		3315-TC04P	15 × 16		4,670		
		3315-G07P	PKGene Blood RNA Tube / Glass 15 × 28	4,500			
		3314-04P	Veno-Ject II 7 × 28	4,000	2,990		
		3307-07P	Veno-Ject II 7 × 28	4,100	2,990		
		3305-07P	Veno-Ject II 5 × 28	4,200	2,900		
		Bucket cap kit B433 *6		—	—	—	—
		TS-36N <small>Can be used for Supreme 25</small>	B436	3625C-01P	250 × 4	3,900	3,080
3650-TC05P	50 × 20			3,110			
	15 × 8			3,110			
3615-TC14P	15 × 56			3,110			
3615-G16P	15 × 64			3,100			
3650-G05P	50 × 20			3,010			
3610C-G02P	100 × 8			3,040			
3614C-18P	14 × 72			2,990			
3602C-36P	2 × 144			2,860			
3605C-48P	5 × 192			2,950			
	Shionogi Tube 4 × 192			3,110			
3606C-35P	Eiken Tube 6 × 140			3,110			
AS36C-96D	Deepwell plate ×8			3,100			
	Microplate ×16			3,100			
TS-38N	B438			3850-04P	50 × 16	3,500	2,380
		3850-N04P	50 × 16	3,500	2,380		
		3850-02P	50 × 8	3,500	2,380		
		38M-TC0204P	50×8or15×16	3,500	2,380		
		3815-10P	15 × 40	3,500	2,380		
		3815-16P	15 × 64	3,500	2,370		
		3810M-14P	5/7/10×56	3,500	2,380		
		3806-EK20P	Eiken Tube 6 × 80	3,500	2,330		
		3810-N20P	10 × 80	3,500	2,270		
		3805-FA16P	FACS Tube 5×64 *7	3,500	2,080		
		3802-EP24P	2 × 96	3,500	1,780		
		B438-96	Microplate ×4	4,200	3,100		
		B438-29		250 × 4	4,200	3,650	
		B438-1507BH *8		15 × 28	4,000	3,310	
B438-5002BH *8-9		50 × 8 15 × 8					



NA-610
1,000ml × 6 (tubes) :
7,000rpm: 11,120G



NA-400
1,000ml × 4 (tubes) :
9,000rpm: 15,220G



TS-33N
250ml × 4 (tubes) : 5,000rpm: 4,720G
Fig. Rotor is shown with Bucket B433,
Rack 3315-TC04P and 3350-G01P
for example only.



TS-36N
14ml × 72 (tubes) : 3,900rpm: 3,110G
Fig. Rotor is shown with Bucket B436 and
Rack AS36C-96D for example only.



TS-41N
Deepwell plate × 4 :
4,500rpm: 3,150G
Bucket, Adapter and Cover
are included.

* Maximum speed and maximum RCF vary by the centrifuge in use. * 1 High sealed rotor * 2 NA-16 rotors and NA-18 rotors shipped between 2010 and 2023 may have been supplied with rubber adapter GA5000-01. Remove the rubber adapter GA5000-01 when using the tubes listed in the table above. Failure to do so may result in improper tightening of the rotor lid and cause the rotor to come off. * 3 Conical Tubes are available without adapters. * 4 Can be used for Supreme25. * 5 When centrifuging with a bucket cover, up to 2×Deepwell plate. * 6 B433 bucket becomes a sealed bucket by using [Bucket cap kit B433]. * 7 SHIONOGI tube (4ml × 64) available. * 8 Sealed buckets. * 9 Different types of tubes cannot be loaded together.

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