

himac



Centrifuge & Processing Equipment Division of Koki Holdings Co.,Ltd. is certificated with ISO 9001, Quality management system.

CAUTION:
• For safe and proper use of your machine, carefully read and follow instruction manual.

- All specifications are subject to change without advanced notice.
- Actual color may vary from the color the photos on this catalogue, due to printing condition.
- Due to safety reason, installation environments, operating environments and conditions may be restricted.
- Unless specially mentioned, products and/or operation panel of the photos are standard specifications.
- CT18R centrifuge is not a medical device.
- For further information, contact your nearest sales representative.

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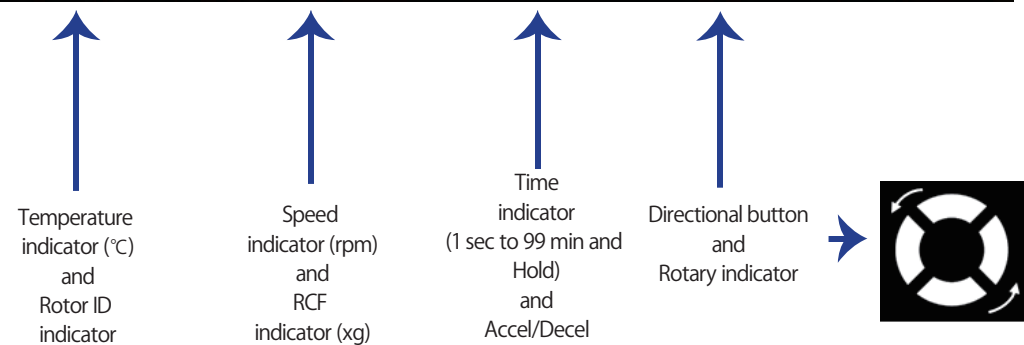


Multipurpose Centrifuge CT 18R

Features & Functions

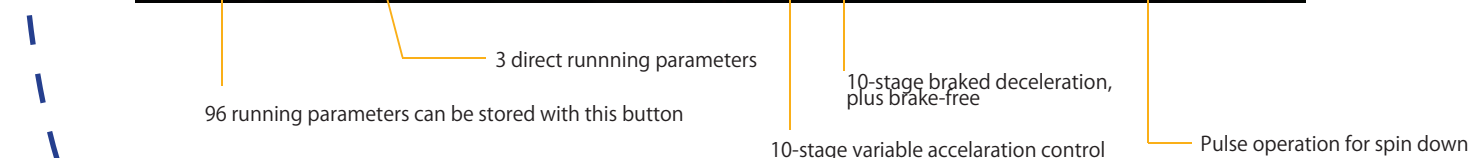
Operation Panel has 2 status indicators!

[Status 1]



Rotary indicator is a function for easily determining if the rotor is spinning at the preset speed. Once the rotor reaches the preset speed, as shown in the figure at right, the up, down, right, and left directional buttons rotate in the direction of the arrow.

[Status 2]



Power Saving Function

When "eco setting" is enable, if the door is not opened or closed and no operations are performed for 10 minutes, the cooling device is automatically stopped.
 Max. 25% stand-by electricity is reduced, comparing the stand-by electricity without eco setting. (under in-house evaluation) When a user forgets to turn off the main power switch for a long time (such as overnight), stand -by electricity consumption is reduced.
 Set "eco" function and contribute energy saving!



Easy-to-Read Capacitive Touch Panel accepts latex gloves operations.

Actual Run Time (ART Function)

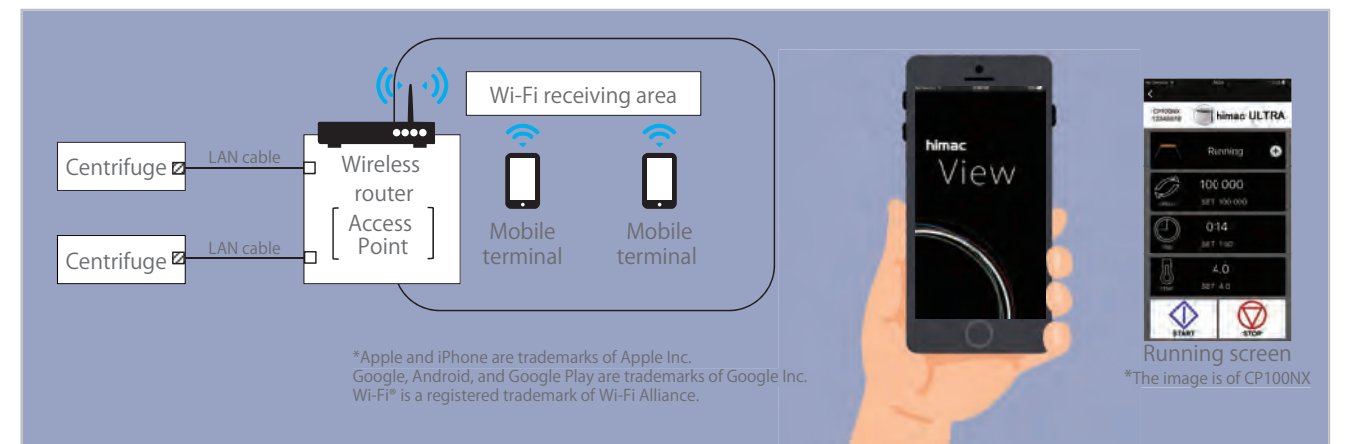
Timer starts counting after the set speed is attained. So acceleration time is excluded from the centrifugation time. You can obtain higher reproducible centrifugation result with this function. It easier to obtain more consistent separation results because there is less variation in acceleration times due to different rotors and sample volumes.

Total Run Hours Indication

Total run hours*1 can be displayed on the operation panel. It is useful as a guideline of the periodical maintenance.
 *1 Including acceleration time regardless a setting of the Actual Run Timer

Optional Remote monitoring System himac View

Remote monitoring application "himac View" is available for CT18R, CR30NX and CP-NX series. "himac View" monitors, operates of start or stops a centrifuge with iPhone™ or Android™ Phone via Wi-Fi®. "himac View" monitors up to 16 units of CT18R, CR30NX or CP-NX series in the LAN access network.
 * Optional LAN board in CT18R is required to use "himac View". For more details contact the nearest sales representative.



Self-Locking Rotor System

Just place a rotor on the drive shaft. The rotor is automatically locked by centrifugal force once it starts spinning. When the rotor comes to complete stop, the lock is automatically released.



Rotors, Buckets, Adapters, Tubes & Bottles

Fixed Angle Rotors



T18A41
36 x 2.0/1.5ml, 18 x 0.2ml
18,000rpm (31,100xg/23,200xg)



T15A39
24 x 2.0/1.5ml
15,000rpm (21,500xg)



T15A46
12 x 5ml
15,000rpm (22,000xg)
* Rotor cover is sold separately.

 The rotor marked with this icon can be sterilized by autoclave at 121°C for 20 minutes.



T15A41
4 x 15TC/50TC
15,000rpm (22,260xg)



T12A41
6 x 50TC
12,000rpm (18,000xg)



T9A31
8 x 50TC
9,000rpm (10,600xg)



T12A42
6 x 80ml
12,000rpm (17,100xg)

Swinging Bucket Rotors

T4SS32 ■ Adapters for T4SS32



4,200rpm (3,200xg)

32 x 4ml/5ml
5 x 8S Adapter

32 x 7ml/10ml
10 x 8S Adapter

32 x 10ml/15ml
15 x 8S Adapter

24 x 15ml TC
15TC x 6S Adapter

8 x 50ml TC
50TC x 2S Adapter

40 x 15ml
15 x 10S Adapter

40 x 5-10ml
10 x 10SB Adapter

Note : Capacity per rotor, and not per adapter.

T5SS31 ■ Adapters for T5SS31



4,800rpm (4,170xg)

28 x 4ml/5ml
5 x 7S Adapter

28 x 7ml/10ml
10 x 7S Adapter

28 x 10ml/15ml
15 x 7S Adapter

4 x 50ml
50 x 1S Adapter

12 x 15ml (TC)
15TC x 3S Adapter

16 x 15ml (TC)
15TC x 4S Adapter

4 x 50ml (TC)
50TC x 1S Adapter

4 x 160ml
160 x 1S Adapter

T5S33 ■



12 x 96MP, 4 x 96DW
4,700rpm (3,100xg)

Rotor Model (Part No.)	Rotor ID	Max. speed (rpm)	Max. RCF (xg)	Nominal Capacity (pcs x ml)	Tube Adapter		Tube / Bottle			
					P/N	Name	P/N	Name	Tube Size (φ x L) mm	Selling Unit
T18A41 (91570000)	30	18,000	Out: 31,100 In: 26,400	36 x 2/1.5	—	—	● 2.0ml/1.5ml Microtube	10.8 x 39	—	
		18,000	Out: 27,100 In: 22,400	36 x 0.7	—	—	● 0.7ml Microtube	10.8 x 25	—	
		15,100	Out: 19,900 In: 16,600	36 x 1/0.5	S413789A	1GA2 Adapter (2pcs/set)	489241A	1.0ml Glass Tube (U-bottom)	9.0 x 35	100pcs/set
		15,100	Out: 20,800 In: 17,500	36 x 0.5	S414002A	0.5 Adapter (B) (4pcs/set)	489240A	0.5ml Glass Tube (U-bottom)	9.0 x 35	100pcs/set
		18,000	Out: 28,500 In: 23,800	36 x 0.5	S414004A	0.75 Adapter (B) (4pcs/set)	—	● 0.5ml Microtube	7.8 x 30	—
		18,000	Out: 30,100 In: 25,400	36 x 0.4/0.25	S414000A	0.4 Adapter (B) (4pcs/set)	—	● 0.4ml Microtube	5.7 x 46	—
		18,000	—	—	—	—	—	● 0.25ml Microtube	5.7 x 30	—
		18,000	23,200	18 x 0.2	—	—	—	● 0.2ml PCR Tube	6.4 x 24	—
T15A39 (91589900)	49	15,000	21,500	24 x 2/1.5	—	—	● 2.0ml/1.5ml Microtube	10.8 x 39	—	
				24 x 0.7	—	—	● 0.7ml Microtube	10.8 x 25	—	
				24 x 1/0.5	S413789A	1GA2 Adapter (2pcs/set)	489241A	1.0ml Glass Tube (U-bottom)	9.0 x 35	100pcs/set
				24 x 0.5	S414002A	0.5 Adapter (B) (4pcs/set)	489240A	0.5ml Glass Tube (U-bottom)	9.0 x 35	100pcs/set
				24 x 0.5/0.4	S414004A	0.75 Adapter (B) (4pcs/set)	489239A	0.5ml Glass Tube (U-bottom)	6.0 x 47	100pcs/set
24 x 0.4/0.25	S414000A	0.4 Adapter (B) (4pcs/set)	—	● 0.5ml Microtube	7.8 x 30	—				
T15A46 (91583600)	39	15,000	22,000	12 x 5	—	—	● Eppendorf Tubes® 5.0mL with screw cap	—	—	
T15A41 (91591300)	42	15,000	22,260	4 x 50 (TC) or 4 x 15 (TC)	—	S307904A	himac 50TC tube	30x115	300pcs/box	
		15,000	14,200	4 x 5	● Universal adapter by Eppendorf AG	S311184A	himac 15TC tube	17x120	100pcs/box	
		11,000	11,970	4 x 50 (TC) or 4 x 15 (TC)	—	—	● 50ml TC Tube (V-bottom)	30x115	—	
T12A41 (91570100)	20	12,000	18,000	6 x 50 (TC)	—	S307904A	himac 50TC tube	30x115	300pcs/box	
		10,000	12,200	6 x 50 (TC)	—	—	● 50ml TC Tube (V-bottom)	30x115	—	
T9A31 (91587400)	24	9,000	10,600	8 x 50 (TC)	—	—	● 50ml TC Tube (V-bottom)	30x115	—	
			10,300	8 x 15 (TC)	S409424A	15TA50T adapter (B) (2pcs/set)	—	● 15ml TC Tube (V-bottom)	17x120	—
			9,700	8 x 13	S408945A	13A50T adapter (B) (2pcs/set)	—	● 13ml Tube (U-bottom)	17x101	—
T12A42 (91570200)	21	12,000	17,100	6 x 80	—	332094A	80PA Bottle	38x106	10pcs/set	
				6 x 70	—	S308433A	70PC Bottle (B)	38x106	6pcs/set	

Rotor Model (Part No.)	Rotor ID	Max. speed (rpm)	Max. RCF (xg)	Nominal Capacity (pcs x ml)	Bucket	Tube Adapter		Tube / Bottle					
						P/N	Name	P/N	Name	Tube Size (φ x L) mm	Selling Unit		
T4SS32 (91570300)	61	4,200	2,620	32 x 5	Standard accessory	S307332A	5x8S Adapter (4pcs/set)	● 4-5ml Blood Collection Tube	12.4-13.2 x 75-78	—			
			3,160	32 x 10		S307333A	10x8S Adapter (4pcs/set)	● 7ml Blood Collection Tube	12.4-13.2 x 100	—			
		3,600	2,320	464977A		10 Glass Tube	12 x 105	50pcs/box					
		4,200	3,160	32 x 15		S307334A	15x8S Adapter (4pcs/set)	● 10ml Blood Collection Tube	15.4-16 x 100	—			
		3,600	2,320	464976A		15 Glass Tube	16.5 x 105	50pcs/box					
		4,200	3,200	24 x 15		S307335A	15TCx6S Adapter (4pcs/set)	● 15ml TC Tube (V-bottom)	17 x 120	—			
		3,160	8 x 50	S307336A		50TCx2S Adapter (4pcs/set)	● 50ml TC Tube (V-bottom)	30 x 115	—				
		3,500	2,120	8 x 50		S308844A	50x2S Adapter (4pcs/set)	473866A	50 Glass Tube	35 x 100	10pcs/box		
		3,000	1,640	40 x 15		S308546A	15x10S Adapter (4pcs/set)	464976A	15 Glass Tube	16.5 x 105	50pcs/box		
		4,200	3,210	40 x 10		● 10ml Blood Collection Tube	15.4-16 x 110	—					
		4,200	3,090	40 x 10		S308695A	10x10SB Adapter (4pcs/set)	● 5-10ml Blood Collection Tube	12.4-15.6 x 75-100	—			
		P/N : S410523C Round Bucket (Option) (4pcs/set) Adapters and a cap (Option) for T5SS31 can be used.											
		T5SS31 (91587700)	50	4,800		4,170	28 x 5	Standard accessory	S409812A	5x7S Adapter (4pcs/set)	● 4-5ml Blood Collection Tube	12.4-13.2 x 75-78	—
						28 x 7	S409811A		10x7S Adapter (4pcs/set)	● 7ml Blood Collection Tube	12.4-13.2 x 100	—	
3,000	1,630			28 x 10	464977A	10 Glass Tube	12 x 105		50pcs/box				
4,800	4,170			28 x 10	S409810A	15x7S Adapter (4pcs/set)	● 10ml Blood Collection Tube		15.4-16 x 100	—			
3,000	1,630			28 x 15	464976A	15 Glass Tube	16.5 x 105		50pcs/box				
3,990	4 x 50			S409813A	50x1S Adapter (4pcs/set)	473866A	50 Glass Tube		35 x 100	10pcs/box			
12 x 15 (TC)	S409976A			15TCx3S Adapter (4pcs/set)	● 15ml TC Tube (V-bottom)	Optional bucket cap can be used.	17 x 120		—				
16 x 15 (TC)	S409814A			15TCx4S Adapter (4pcs/set)	● 15ml TC Tube (V-bottom)	Optional bucket cap cannot be used.	17 x 120		—				
4 x 50 (TC)	S409815A			50TCx1S Adapter (4pcs/set)	● 50ml TC Tube (V-bottom)	30 x 115	—						
4 x 160	S410251A			160x1S Adapter (4pcs/set)	S306847A	160PP Bottle**	52 x 120		10pcs/box				
4 x 250	—	S306848A	160PC Bottle**	52 x 120	10pcs/box								
P/N : S410252A Shield Cap (Option) (4pcs/set) The cap cannot be used for 15TCx4S Adapter and 250ml Bottle.													
T5S33 (91591700)	56	4,700	3,100	4 x 96DW 12 x 96MP 2 x FDW	Standard accessory	—	● 96-hole Deep Well Plate (128x86x43H) ● 96-hole Micro Plate (128x86x14H) ● Deep Well Plate with Filter (128x86x74H)	—	—				

- Remarks
- Items with ● are marketed products. Purchase directly from your local supplier.
 - Actual volume of the tube or bottle may be less than the nominal volume due to design of the rotor or shape of the tube/bottle.
 - 50ml TC tubes and 15ml TC tubes cannot be centrifuged together in T15A41 rotor.
 - ** Cap of 160PP bottle and 160PC bottle are sold separately. Please order P/N: S410008A 160 Cap (2pcs/set) with the bottle.
 - When "● 50ml Bottle (U-bottom)" is used, please refer to data sheet of the bottle and set RCF at Max.RCF or lower.
 - Eppendorf Tubes® is a registered mark of Eppendorf AG.
 - Nalgene™ is a trademark of Thermo Fisher Scientific Inc.

High performance himac TC Tubes!

himac original 50 ml & 15ml conical tubes (centrifugation at high RCF)

- (1) 50ml tubes can be used up to max. 50,000 xg *[actual capacity, 45 ml/tube]
- (2) 15ml tubes can be used up to max. 36,100 xg **
- (3) V-shaped bottom collects sediments more easily at the bottom of the tube compared to rounded-bottom tubes.
- (4) Having an air-tight screw cap. Improved safety!
- (5) Radiation Sterilized
- (6) Volume scales and space for labels

* with R19A2 rotor for model CR30NX

** with R16A2 rotor for model CR30NX



S311184A: himac 15TC TUBE (100pcs/set)

S307904A: himac 50TC TUBE (300pcs/set)

Centrifuge Model	Rotor Model	TC Tube Type	Max. Speed (rpm)	Max. RCF (xg)	No. of tubes X Actual capacity (ml)	Required Adapter
 CT18R	 T15A41	himac 50TC Tube	15,000	22,260	4 X 45	—
		himac 15TC Tube	15,000	22,260	4 X 15	—
 CR22N	 R18A	himac 50TC Tube	18,000	42,200	8 X 45	—
		himac 15TC Tube	10,000	12,700	8 X 15	S411576A (2pcs/set)
	 R15A	himac 50TC Tube	15,000	32,300	10 X 42	—
		himac 15TC Tube	15,000	32,500	10 X 15	—
 CR30NX	 R19A2	himac 50TC Tube	19,000	50,000	8 X 45	—
		himac 15TC Tube	9,650	12,610	8 X 15	S411576A (2pcs/set)
	 R16A2	himac 50TC Tube	16,000	36,100	10 X 42	—
		himac 15TC Tube	16,000	36,100	10 X 15	—

Note: R18A, R15A, R19A2 and R16A2 have a rotor cover as a standard accessory.
For more details of CR22N and CR30NX, visit our website: <https://www.himac-science.com>

Specifications

Maximum speed	18,000 rpm (T18A41)
Maximum RCF	31,100 xg (T18A41)
Maximum capacity	1,000 ml (4 X 250 ml by T5SS31)
Set speed range	300 rpm to 18,000 rpm
Temperature range adjustment	-20°C to +40°C
Timer	1 to 99 min. (in increments of 1 min.) with HOLD function or 1 to 59 sec. with HOLD function
Acceleration/Deceleration Mode	Accel: 10 modes, Decel: 10 modes and brake-free
Memory-based programmed operation	99 programs, including 3 direct select buttons
Drive Unit	Induction motor (Inverter)
Refrigerator	300W Hermetic compressor (Refrigerant: HFC 134a)
Rotor stop signal	Select from 5 melodies, beep and mute
Interface connection	LAN X 1 (Option)
Safety functions	Door interlock, dual overspeed detector, Rotor ID detector, imbalance detector, over-temperature detector
Noise level	Less than 55dB by fixed angle rotor Less than 59dB by swinging bucket rotor
Compliance with standard	CE, cCSAus *
Heat radiation	650W
Power requirements	AC220-240V ±10% 50Hz 8A (ordering number: 915617C1 and 915617C2**) AC115-127V ±10% 60Hz 15A (ordering number: 915617C3)
Dimensions	634 mm (W) X 550 mm (D) X 340 mm (H) (Height to the table: 291 mm)
Weight	80 Kg
Installation Environment	Ambient temperature for operation: 2°C to 40 °C Ambient temperature for assuring performance: 15°C to 25°C

* for the United States and Canada: AC115-127V ±10% 60Hz 15A (ordering number: 915617C3), only
**Ordering number 915617C2 is applicable to EU region

Appearances

