

HIGH-SPEED COOLING CENTRIFUGE



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ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

DESCRIPTION:

A centrifuge is a device that separates fluid components using centrifugal force by spinning them at high speeds. iGene's IG-243R, IG-247R and IG-248R Cooling Centrifuges efficiently separate liquids from solids or fluids of differing densities. These models feature high-speed performance and advanced cooling, ensuring sample integrity and reliable results. Designed for laboratories, they offer versatile functionality for various applications, making them essential for fluid component analysis and separation. The IG-243R, IG-247R and IG-248R provide robust, efficient, and precise centrifugation solutions for modern lab environments.

KEY FEATURES:

High-Performance Motor: Brushless, high-torque motor with maintenance-free operation ensures no carbon powder pollution, delivering fast acceleration and deceleration.

Eco-Friendly Cooling: Fluorine-free compressors with a double cooling cycle provide precise temperature control for optimal sample protection.

Smart Touch Control: The intuitive microprocessor-based touch display shows real-time temperature, speed, time, and RCF, making operation a breeze.

Customizable Performance: Store up to 100 programs, each with 10 customizable steps. Choose from 10 acceleration and deceleration profiles for tailored performance.

Comprehensive Safety: Features automatic electric lid lock, protection against over-speed and over-temperature, ensuring reliable operation.

Robust & Safe Build: Powder-coated steel exterior with a corrosion-resistant stainless steel inner chamber and a built-in explosion-proof sleeve offering three-tier protection for maximum safety.

Effortless Rotor Handling: Quick and easy rotor loading without direction marks, thanks to the specialized taper sleeve and automatic rotor detection system.

Optimal Centrifugation: High-quality dampers and an automatic solenoid draining valve provide the best centrifugal results with minimal effort.

Automatic Rotor detection: Features an automatic rotor detection system that ensures precise and seamless identification of the rotor, enhancing safety and operational efficiency.

Pre-Set Cooling: Feature allows the chamber to automatically cool down to a specified temperature before or after a run

Short Spin: Provides quick, high-speed centrifugation for brief intervals

Igene Labserve Cooling centrifuge family

Model	IG-243R	IG-247R	IG-248R
Max. Speed	16,000 rpm	18500 rpm	21000 rpm
Max. RCF	20,600×g	23990×g	30910×g
Max. Capacity	6 × 100ml	4 × 180 ml	4 × 800 ml
Time Range	0- 99hr 59min	0- 99hr 59 min	0- 99hr 59 min
RPM/RCF Convert	Yes	Yes	Yes
Noise (dB)	≤ 58	≤ 58	≤ 58
Temperature	-20°C to +40°C	-20°C +40°C	-20°C ~ +40°C
Acc/Dec	10 kinds	10 Kinds	10 Kinds
Speed Accuracy	±20 rpm	±20r/min	±20r/min
Temperature Accuracy	±1°C	±1°C	±1°C
Supported rotor type	Angle (27) swing (01) plate (01)	Swingout (07), Microplate (02), Angle (23) Vertical (02)	Swing (08), Microplate (03) Fixed rotor (35)
Dimension (LxWxHmm)	513 × 370 × 320 mm	570 x 600 x 340 mm	513 × 370 × 320 mm
Voltage(V/Hz)	AC 220V, 50Hz	AC 220V/110V, 50Hz/60Hz	AC 220V/110V 50Hz/60Hz
Certificates	CE, ISO	CE, ISO & Calibration report are available	CE, ISO & Calibration report are available



Compatible Rotor IG-243R

No	Type	Max. Speed	Max RCF	Max Vol.
447	Angle	14000	12070	4x8PCR
448	Angle	13000	16080	6x8PCR
449	Angle	14000	13390	8X8PCR
450	Angle	13000	17220	12X8PCR
416	Angle	15000	18510	30X0.5ml
402	Angle	14000	19970	40X0.5ml
401	Angle	16000	17940	12X1.5/2.0ml
403	Angle	15000	20600	24x1.5/2.0ml
404	Angle	13500	19340	30x1.5/2.0ml
444	Angle	11000	12840	48x1.5/2.0ml
405	Angle	15000	19350	16x5ml
417	Angle	11000	13950	16x10ml
406	Angle	14000	16370	12x7ml
415	Angle	14000	16460	6x10ml
408	Angle	12000	14510	12x10ml
455	Angle	11000	12730	8x15ml
407	Angle	10000	11840	12x15ml
639	Angle	5000	3080	24x15ml
627	Angle	5000	3830	30x15ml
409	Angle	12000	14510	8x20ml
410	Angle	12000	14000	6x30ml
411	Angle	11000	13480	6x50ml
412	Angle	10000	10810	6x70ml
413	Angle	10000	10310	4x100ml
414	Angle	8000	7280	6x100ml
453	Angle	11000	13560	4x85ml
480	Swing	15000	19920	4x5ml
437	Angle	12000	15800	24 Capillary
607	Plate	4000	2300	2x3x48well

Compatible Rotor IG-247R

Order No.	Rotor	Max Speed(rpm)	Max Volume (ml)	Max. RCF (×g)
18A-1	Swing out (Round bucket)	4000	4×180ml	2580
18A-2	Microplate rotor (frame type)	4000	2×3×96 well	2020
18A-3	Microplate rotor (box type)	4000	2×3×96 well	1980
18A-4	Swing out	5000	4×1×50ml	4420
18A-5		5000	4×1×100ml	4420
18A-6		4000	4×2×50ml	2820
18A-7		4000	4×4×15ml	2820
18A-8		4000	4×6×10/7ml	2580
18A-9	Angle	14000	4×8PCR	12070
18A-10	Angle	13000	6×8PCR	16080
18A-11	Angle	14000	8×8PCR	13390
18A-12	Angle	13000	12×8PCR	17220
18A-13	Angle	14000	40×0.5ml	19960
18A-14	Angle	18500	12×1.5ml	23990
18A-15	Angle	15000	24×1.5ml	20600
18A-16	Angle	13500	30×1.5ml	19340
18A-17	Angle	11000	48×1.5ml	12840
18A-18	Angle	15000	16×5ml	19350
18A-19	Angle	14000	6×10ml	16460
18A-20	Angle	13000	12×10ml	17030
18A-21	Angle	11000	16×10ml	13950
18A-22	Angle	11000	8×15ml	12730
18A-23	Angle	9000	12×15ml	9590
18A-24	Angle	5000	24×15ml	3500
18A-25	Angle	5000	30×15ml	3830
18A-26	Angle	12000	6×30ml	14000
18A-27	Angle	12000	6×50ml(conic)	16050
18A-28	Angle	12000	6×50ml(round)	15960
18A-29	Angle	11000	4×85ml	13560
18A-30	Angle	10000	4×100ml	10310
18A-31	Angle	8000	6×100ml	7280
18A-32	Angle	12000	24 capillaries	15800
18A-33	Swing out	15000	4×5ml	19920
18A-34	Vertical	16000	16×5ml	16450
18A-35	Vertical	14000	8×30ml	19750

Compatible Rotor IG-248R

Order No	Rotor	Max speed (rpm)	Max Volume(ml)	Max RCF (g)
671	Swing Rotor	4000	4×800 ml	3450
672	Swing Rotor	4000	4×800ml (Plus)	3450
		4000	4×4×96 well	2930
696	Swing Rotor	4000	4×600ml (Oval Cup) for blood bag	3530
696	Swing Rotor	4000	4×500ml(round)	3530
679	Swing Rotor	4000	4×500ml(square)	3450
592	Swing Rotor	4000	4×300ml(round)	3180
694	Microplate rotor	4000	4×4×96 well	2940
673	Microplate rotor	4000	2×4×96 well	3210
676	Microplate rotor	4000	2×3×48 well	2300
690	Swing rotor	4000	4×40×7ml vacuum tube	3270
		4000	4×40×5ml vacuum tube	2890
		4000	4×18×10ml vacuum tube	3130
693	Swing Rotor	4000	Fat bottle	3830
847	Fixed Rotor	16000	4×8 PCR	15760
848	Fixed Rotor	15000	6×8 PCR	21420
849	Fixed Rotor	16000	8×8PCR	17480
850	Fixed Rotor	15000	12×8PCR	22930
802	Fixed Rotor	15000	40×0.5ml	22920
816	Fixed Rotor	18000	30×0.5ml	26660
801	Fixed Rotor	21000	12×1.5ml	30910
803	Fixed Rotor	17000	24×1.5ml	26420
804	Fixed Rotor	13500	30×1.5ml	19340
844	Fixed Rotor	13000	48×1.5ml	17930
805	Fixed Rotor	16000	16×5ml	22020
817	Fixed Rotor	13000	16×10ml	19490
806	Fixed Rotor	16000	12×7ml	21380
815	Fixed Rotor	16000	6×10ml	21500
808	Fixed Rotor	15000	12×10ml	22680
809	Fixed Rotor	15000	8×20ml	22680
855	Fixed Rotor	13000	8×15ml	17790
807	Fixed Rotor	10000	12×15ml	11840
639	Fixed Rotor	5000	24×15ml	3500

IG-248R Rotors : cont...

378	Fixed Rotor	5000	30×15 ml	3830
810	Fixed Rotor	14000	6×30 ml	19060
811	Fixed Rotor	13000	6×50 ml (conical)	18840
811	Fixed Rotor	13000	6×50 ml (round)	18730
377	Fixed Rotor	5000	4×50 ml	4730
812	Fixed Rotor	12000	6×70 ml	15570
641	Fixed Rotor	5000	12×50 ml	3860
642	Fixed Rotor	4000	24×50 ml	2970
853	Fixed Rotor	13000	4×85 ml	18940
813	Fixed Rotor	12000	4×100 ml	14850
814	Fixed Rotor	12000	6×100 ml	16390
643	Fixed Rotor	4000	12×100 ml	2970
437	Fixed Rotor	12000	24 capillaries	15800
480	Swing Rotor	15000	4×5 ml	19920
435	Vertical rotor	16000	16×5 ml	16450
436	Vertical rotor	14000	8×30ml	19750

IG-248R Rotors



4x800ml swing rotor
Max speed:4000rpm
Max RCF:3450xg



4x40x5ml swing rotor
Max speed:4000rpm
Max RCF:2890xg



6x50ml angle rotor
Max speed:13000rpm
Max RCF:18840xg



12x15ml angle rotor
Max speed:10000rpm
Max RCF:11840xg



48x1.5/2ml angle rotor
Max speed:13000rpm
Max RCF:17930xg



6x100ml angle rotor
Max speed:12000rpm
Max RCF:16930xg

Adapter for 800ml and 600ml bucket

Volume Cup	5ml	7ml	10ml	15ml	50ml
800ml (Round Cup)	23pcs/cup	23	19	14	5
600ml (Round Cup)	18pcs/cup	18	14	9	3
600ml (Square Cup)	20pcs/cup	20	16	12	5



**4x800ml/600
Rotor with adapter**



**4x800/600ml swing rotor with
Biosafety lid for option**



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