

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 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

TECHNICAL SPECIFICATIONS

Parameter	IG-243R	IG-247R	IG-248R
Max. Speed	16,000 rpm	18,500 rpm	21,000 rpm
Max. RCF	20,600 × g	23,990 × g	30,910 × g
Max. Capacity	6 × 100 ml	4 × 250 ml	4 × 800 ml
Time Range	0–99 hr 59 min	0–99 hr 59 min	0–99 hr 59 min
RPM / RCF Conversion	Yes	Yes	Yes
Noise Level	≤ 58 dB	≤ 58 dB	≤ 58 dB
Temperature Range	–20°C to +40°C	–20°C to +40°C	–20°C to +40°C
Acceleration / Deceleration	10 levels	10 levels	10 levels
Speed Accuracy	±20 rpm	±20 rpm	±20 rpm
Temperature Accuracy	±1°C	±1°C	±1°C
Supported Rotor Types	Angle (27), Swing (01), Plate (01)	Swing-out (07), Microplate (02), Angle (23), Vertical (02)	Swing (08), Microplate (03), Fixed Rotor (35)
Dimensions (L × W × H)	513 × 370 × 320 mm	570 × 600 × 340 mm	513 × 370 × 320 mm
Power Supply	AC 220V, 50Hz	AC 220V / 110V, 50/60Hz	AC 220V / 110V, 50/60Hz
Certifications	CE, ISO	CE, ISO (Calibration report available)	CE, ISO (Calibration report available)



COMPATIBLE ROTORS IG-243R

No.	Type	Max. Speed (rpm)	Max. RCF (×g)	Max. Volume / Capacity
447	Angle	14,000	12,070	4 × 8 PCR
448	Angle	13,000	16,080	6 × 8 PCR
449	Angle	14,000	13,390	8 × 8 PCR
450	Angle	13,000	17,220	12 × 8 PCR
416	Angle	15,000	18,510	30 × 0.5 ml
402	Angle	14,000	19,970	40 × 0.5 ml
401	Angle	16,000	17,940	12 × 1.5 / 2.0 ml
403	Angle	15,000	20,600	24 × 1.5 / 2.0 ml
404	Angle	13,500	19,340	30 × 1.5 / 2.0 ml
444	Angle	11,000	12,840	48 × 1.5 / 2.0 ml
405	Angle	15,000	19,350	16 × 5 ml
417	Angle	11,000	13,950	16 × 10 ml
406	Angle	14,000	16,370	12 × 7 ml
415	Angle	14,000	16,460	6 × 10 ml
408	Angle	12,000	14,510	12 × 10 ml
455	Angle	11,000	12,730	8 × 15 ml
407	Angle	10,000	11,840	12 × 15 ml
639	Angle	5,000	3,080	24 × 15 ml
627	Angle	5,000	3,830	30 × 15 ml
409	Angle	12,000	14,510	8 × 20 ml
410	Angle	12,000	14,000	6 × 30 ml
411	Angle	11,000	13,480	6 × 50 ml

412	Angle	10,000	10,810	6 × 70 ml
413	Angle	10,000	10,310	4 × 100 ml
414	Angle	8,000	7,280	6 × 100 ml
453	Angle	11,000	13,560	4 × 85 ml
480	Swing	15,000	19,920	4 × 5 ml
437	Angle	12,000	15,800	24 Capillary
607	Plate	4,000	2,300	2 × 3 × 48 well

COMPATIBLE ROTORS IG-247R

Order No.	Rotor Type	Max Speed (rpm)	Max Volume / Capacity	Max RCF (×g)
18A-1	Swing out (Round bucket)	4,000	4 × 250 ml	2,580
18A-2	Microplate rotor (Frame type)	4,000	2 × 3 × 96 well	2,020
18A-3	Microplate rotor (Box type)	4,000	2 × 3 × 96 well	1,980
18A-4	Swing out	5,000	4 × 1 × 50 ml	4,420
18A-5		5,000	4 × 1 × 100 ml	4,420
18A-6		4,000	4 × 2 × 50 ml	2,820
18A-7		4,000	4 × 4 × 15 ml	2,820
18A-8		4,000	4 × 6 × 10 / 7 ml	2,580
18A-9	Angle	14,000	4 × 8 PCR	12,070
18A-10	Angle	13,000	6 × 8 PCR	16,080

18A-11	Angle	14,000	8 × 8 PCR	13,390
18A-12	Angle	13,000	12 × 8 PCR	17,220
18A-13	Angle	14,000	40 × 0.5 ml	19,960
18A-14	Angle	18,500	12 × 1.5 ml	23,990
18A-15	Angle	15,000	24 × 1.5 ml	20,600
18A-16	Angle	13,500	30 × 1.5 ml	19,340
18A-17	Angle	11,000	48 × 1.5 ml	12,840
18A-18	Angle	15,000	16 × 5 ml	19,350
18A-19	Angle	14,000	6 × 10 ml	16,460
18A-20	Angle	13,000	12 × 10 ml	17,030
18A-21	Angle	11,000	16 × 10 ml	13,950
18A-22	Angle	11,000	8 × 15 ml	12,730
18A-23	Angle	9,000	12 × 15 ml	9,590
18A-24	Angle	5,000	24 × 15 ml	3,500
18A-25	Angle	5,000	30 × 15 ml	3,830
18A-26	Angle	12,000	6 × 30 ml	14,000
18A-27	Angle	12,000	6 × 50 ml (conical)	16,050
18A-28	Angle	12,000	6 × 50 ml (round)	15,960
18A-29	Angle	11,000	4 × 85 ml	13,560
18A-30	Angle	10,000	4 × 100 ml	10,310
18A-31	Angle	8,000	6 × 100 ml	7,280
18A-32	Angle	12,000	24 Capillaries	15,800
18A-33	Swing out	15,000	4 × 5 ml	19,920
18A-34	Vertical	16,000	16 × 5 ml	16,450
18A-35	Vertical	14,000	8 × 30 ml	19,750

COMPATIBLE ROTORS IG-248R

Order No.	Rotor Type	Max Speed (rpm)	Max Volume / Capacity	Max RCF (×g)
671	Swing Rotor	4,000	4 × 800 ml	3,450
672	Swing Rotor	4,000	4 × 800 ml (Plus)	3,450
	Swing Rotor	4,000	4 × 4 × 96 well	2,930
696	Swing Rotor	4,000	4 × 600 ml (Oval cup, blood bag)	3,530
696	Swing Rotor	4,000	4 × 500 ml (Round)	3,530
679	Swing Rotor	4,000	4 × 500 ml (Square)	3,450
592	Swing Rotor	4,000	4 × 300 ml (Round)	3,180
694	Microplate Rotor	4,000	4 × 4 × 96 well	2,940
673	Microplate Rotor	4,000	2 × 4 × 96 well	3,210
676	Microplate Rotor	4,000	2 × 3 × 48 well	2,300
690	Swing Rotor	4,000	4 × 40 × 7 ml vacuum tube	3,270
	Swing Rotor	4,000	4 × 40 × 5 ml vacuum tube	2,890
	Swing Rotor	4,000	4 × 18 × 10 ml vacuum tube	3,130
693	Swing Rotor	4,000	Fat bottle	3,830
847	Fixed Rotor	16,000	4 × 8 PCR	15,760
848	Fixed Rotor	15,000	6 × 8 PCR	21,420
849	Fixed Rotor	16,000	8 × 8 PCR	17,480

850	Fixed Rotor	15,000	12 × 8 PCR	22,930
802	Fixed Rotor	15,000	40 × 0.5 ml	22,920
816	Fixed Rotor	18,000	30 × 0.5 ml	26,660
801	Fixed Rotor	21,000	12 × 1.5 ml	30,910
803	Fixed Rotor	17,000	24 × 1.5 ml	26,420
804	Fixed Rotor	13,500	30 × 1.5 ml	19,340
844	Fixed Rotor	13,000	48 × 1.5 ml	17,930
805	Fixed Rotor	16,000	16 × 5 ml	22,020
817	Fixed Rotor	13,000	16 × 10 ml	19,490
806	Fixed Rotor	16,000	12 × 7 ml	21,380
815	Fixed Rotor	16,000	6 × 10 ml	21,500
808	Fixed Rotor	15,000	12 × 10 ml	22,680
809	Fixed Rotor	15,000	8 × 20 ml	22,680
855	Fixed Rotor	13,000	8 × 15 ml	17,790
807	Fixed Rotor	10,000	12 × 15 ml	11,840
639	Fixed Rotor	5,000	24 × 15 ml	3,500

378	Fixed Rotor	5,000	30 × 15 ml	3,830
810	Fixed Rotor	14,000	6 × 30 ml	19,060
811	Fixed Rotor	13,000	6 × 50 ml (conical)	18,840
811	Fixed Rotor	13,000	6 × 50 ml (round)	18,730
377	Fixed Rotor	5,000	4 × 50 ml	4,730
812	Fixed Rotor	12,000	6 × 70 ml	15,570
641	Fixed Rotor	5,000	12 × 50 ml	3,860
642	Fixed Rotor	4,000	24 × 50 ml	2,970
853	Fixed Rotor	13,000	4 × 85 ml	18,940
813	Fixed Rotor	12,000	4 × 100 ml	14,850
814	Fixed Rotor	12,000	6 × 100 ml	16,390
643	Fixed Rotor	4,000	12 × 100 ml	2,970
437	Fixed Rotor	12,000	24 Capillaries	15,800
480	Swing Rotor	15,000	4 × 5 ml	19,920
435	Vertical Rotor	16,000	16 × 5 ml	16,450
436	Vertical Rotor	14,000	8 × 30 ml	19,750

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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