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Find the *Thermo IEC Centra-GP8R* at our website: ***Click HERE***

IEC

CENTRA®-GP8 Series

High Performance, 3 Liter, General Purpose and Refrigerated Centrifuges



VARIETY OF MODELS FIT ANY SPACE

INTERNATIONAL EQUIPMENT COMPANY

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IEC *SmartSet*™ Centrifugal Control System

The intelligence behind the Centra-GP8 series is the IEC *SmartSet* centrifugal control system. The GP8's state-of-the-art membrane touch control panel features easily decipherable international symbols, is easy to clean and "glove friendly." The control system provides ready access to a variety of **advanced** functions which make parameter selection **simple**. Basic operation could not be easier— merely select the appropriate rotor number, and enter desired speed, time and temperature* using the quick response up/down arrow keys. Runs are fully automatic and may be exactly replicated with a single touch of a button.

The flexibility of the Centra-GP8 Series also allows you to perform more complicated separations with ease. For example, up to 35 programs may be stored in the unit's memory and retrieved in seconds. Acceleration and deceleration profiles may be selected to optimize results for specific applications. And there are even special functions such as rapid temperature condition mode*, time hold mode, momentary spins and an "At Speed" Timer which enhances the accuracy of time-sensitive runs. In addition, self-diagnostic messages provide meaningful status information and alert the operator to the need for routine maintenance.

*Refrigerated models only

Control Panel of the Centra-GP8R

TEMPERATURE
Accepts temperatures in 1˚C increments from -5˚C to +40˚C. Accuracy is to ±1˚C within control range.

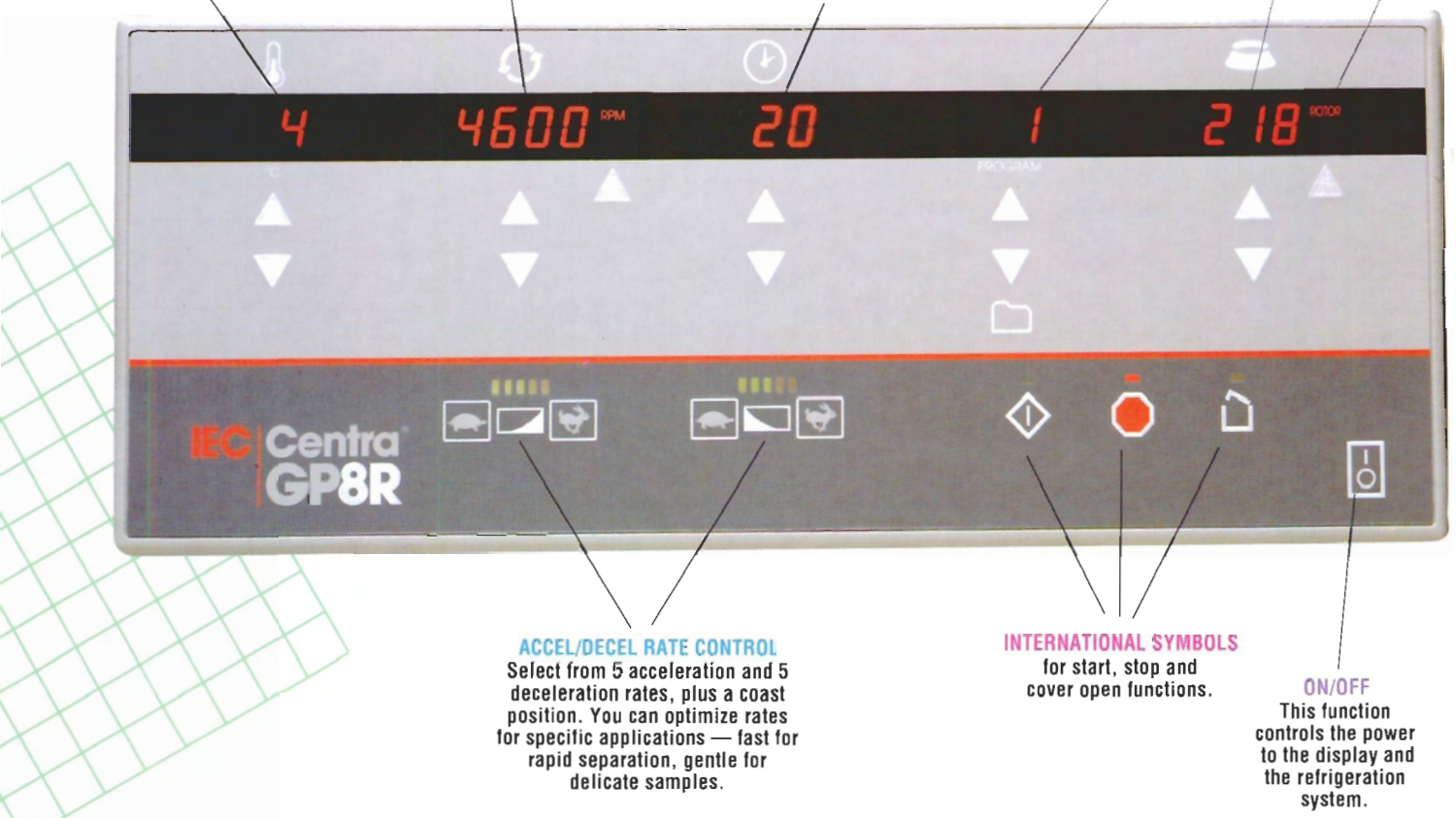
SPEED/G-FORCE
Select speed in 10 rpm increments from 500 to 6,000 rpm, or set required g-force directly. Display shows actual rotor speed within ± 10 rpm and never requires calibration.

TIME
Run cycles from one second to 360 minutes may be entered. In normal timed mode, system counts down from set point; in time hold or momentary spin modes, system counts up.

PROGRAM MEMORY
Internal memory accepts 35 user-stored programs and includes provision for manual operation. A separate working memory allows programs to be modified without affecting the program library.

ROTOR/RADIUS
Scroll through rotor number menu to select appropriate rotor.

Modify the radius of rotation to match your rotor/accessory combination.



ACCEL/DECEL RATE CONTROL
Select from 5 acceleration and 5 deceleration rates, plus a coast position. You can optimize rates for specific applications — fast for rapid separation, gentle for delicate samples.

INTERNATIONAL SYMBOLS
for start, stop and cover open functions.

ON/OFF
This function controls the power to the display and the refrigeration system.

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The Centra®-GP8 Series: Three Liter Centrifuges that Deliver High Peformance . . .

- **High performance**
  The GP8 performs separations 50-100% faster than the competition
- **Powerful**
  The GP8 produces forces to 4,630 xg and speeds to 5600 rpm
- **Tremendous capacity**
  The GP8 spins 3 liters (4 x750mL)
- **Flexibility**
  The GP8 is available in refrigerated or ventilated, and in bench-top, under-counter and floor models
- **Accommodating**
  The GP8 accepts all popular tube and bottle formats
- **Remarkable accuracy**
  Speed is to ± 10 rpm and temperature to ± 1.0˚C (Refrigerated models only)



IEC set out to design the fastest, most powerful 3 liter centrifuge available today. But we also wanted to create a centrifuge that is flexible, easy to use, and that works with your limited laboratory bench space — over, under and off of your bench space, to be exact!

Introducing the **CENTRA-GP8**, the centrifuge series that outperforms other leading bench-top and kneewell systems with a full 50% more separating power on large capacity loads. It accelerates and decelerates faster than the competition, and with its unique three liter sealed swinging bucket rotor, generates up to 4550 xg on as many as 148 tubes. With the GP8, you get faster separations, thereby increasing your lab's productivity.

50% MORE OOMPH

Because the IEC Centra-GP8/218 rotor combination achieves much higher G-forces than the leading competition, it takes much less time to do your separations. The chart above depicts an average run done at 4550 xg which it takes the GP8 15 minutes to complete. The same run, however, takes "Brand B" 21.3 minutes to complete at its top force of 3200 xg and "Brand S" 31.2 minutes at 2190 xg. Translation? The GP8 can do your separations in less than half the time. That's 50% more oomph!

In addition to high performance, the GP8 offers a *SmartSet* control system whose features allow for advanced operation but at the same time make it much easier to set parameters, store programs and repeat runs. A "glove friendly" membrane panel is easy to clean and to operate. And just about any lab, no matter how tight for space, can accommodate the GP8. In addition to compact bench-top configurations, it's available in under-counter "kneewell" and compact portable floor models, both of which sit on locking casters and can be wheeled about the lab or stored when not in use. The floor model has a drawer which serves as a convenient storage space for all your centrifuge accessories.

And finally, the GP8 has the same rugged, robust design, quality construction and uncompromising safety which have always set IEC centrifuges apart from the rest.

If you're in the market for a large capacity centrifuge, turn to the system that gives you more power, more features and more oomph for the money. . . The IEC CENTRA®-GP8.

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825S Sputum Rotor

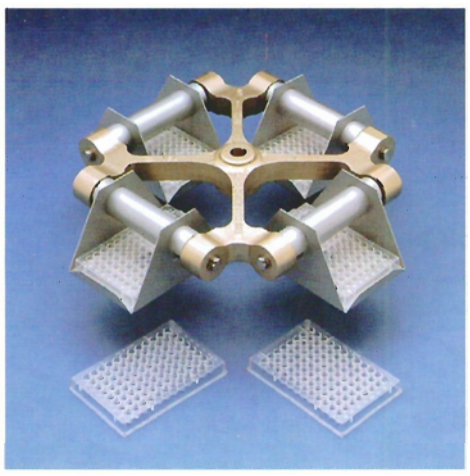
8 x 50mL • to 5100 rpm / 4190 xg

Provides rapid, positive separation for TB Sputum sample preparation. Includes:

- Eight IEC 323 Sealed Shields for 50mL plastic conical culture tubes

Fixed Angle Rotors for the GP8

ROTOR	DESCRIPTION	RPM	RCF	RADIUS
825S	8 x 50mL, rotor 825A with 323 shields	5100	4190	14.4
58222	12 x 50mL, rotor 822A with 323 shields	4800	4025	15.6
58113	20 x 50mL, rotor 811A with 302 shields	5300	4269 outer, 3620 inner	13.9, 10.9
58313	36 x 15mL, rotor 831A with 302 shields	4600	4090 outer, 3620 inner	17.3, 9.2
58254	8 x 100mL, rotor 825A with 240 shields	4100	3500	18.6



45216 Microplate Rotor

8 x Microplates • to 3500 rpm / 2340 xg

For dedicated microplate applications in the blood bank or research lab.

- Includes carriers for standard 86 x 128mm microplates in a variety of well configurations.
- Swing out carriers accept up to two plates stacked and are easily removed from the centrifuge for loading at the bench.
- 316S or 372S buckets may be added at a later time to extend the system's versatilty.

Swinging Bucket Rotors for the GP8

ROTOR	DESCRIPTION	RPM	RCF	RADIUS
216	4 x 750mL Centrac with 316S sealed buckets	3400	2550	19.7
218	4 x 750mL Centrac with 3218 sealed buckets	4600	4550	19.2
228	4 x 750mL Centra with 372S sealed buckets	3400	2500	19.3
52842	4 x 250mL Ultrac with 384S sealed buckets	3800	3200	19.8
52691	8 x 50mL, rotor 269 with 325 rings, 320 shields, and 315 cushions	3800	3200	19.8
52693	8 x 50mL, rotor 269 with 350 rings, 323 shields, and 315 cushions	3700	3030	19.8
59211	6 x 50mL, rotor 921 with 325 rings, 320 shields, and 315 cushions	4600	4000	17.0
59213	6 x 50mL, rotor 921 with 350 rings and 323 shields	4400	3680	17.0
45216	8 x microplates, rotor 216 with 5782 microplate carriers	3400	2210	17.1

Order Centrac Adapters or microplate carriers separately.

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THREE LITER, SWINGING BUCKET ROTOR SYSTEMS



218A High Speed Sealed Rotor

4 x 750mL • to 4600 rpm / 4550 xg

- Includes transparent sealed windshield lid and four IEC 3218 sealed buckets.*



228 General Purpose Sealed Rotor

4 x 750mL• to 3400 rpm / 2500 xg

- Includes four IEC 372S sealed buckets.*



216 Economy Rotor

4 x 750mL • to 3400 rpm / 2550 xg

- Includes four IEC 316S buckets with clip-on domes.*

Centrac Adapters

SAMPLE CONTAINER	MAX. DIA. (mm)	CATALOG#	NUMBER OF TUBES		
			218 ROTOR	228 ROTOR	216 ROTOR
0.25 and 0.4mL microtubes	6.1	5774 [1,2]	296	296	296
0.5mL and B-D Microtainers	8.1				
0.25 and 0.4mL microtubes	6.1	5737 [2]	148	148	148
0.5 mL and B-D microtainers	8.1				
5mL (10x75/12x75mm)	12.4				
1.5mL microtubes	11.0	5827 [2]	108	108	108
7-10mL (13x75mm Coag/13x100mmVacutainer)	14.5				
15mL (16x125mm Vacutainer)	18.0	5719	24	52	76
12mL (16x75-100mm Vacutainer)			76	76	76
20mL (16x150mm Vacutainer)			-	4	12
15mL Uri-System/Kova urine tubes	17.8	5712 [3]	24	48	48
15mL (Falcon/Corning conical)					
15mL (Falcon/Corning, Uri-System/Kova)	17.4	5703 [4]	12	12	12
10-15mL (16x100-125mm Vacutainer)	17.4		12	12	12
50mL (Falcon/Corning conical)	29.4		12	12	12
50mL (Falcon/Corning conical)	29.6	5805	20	20	20
		5807 [5]	-	-	28
50mL (round/conical)	29.6	5707	28	28	28
100mL (Corning 8460-100, 8422-100) and 50mL (Corning 8422-50, 8300-50)	44.8 29.5	5704	-	-	8 8 and
140mL (Bellco 3045-00140 conical) [6]	63.4	5780	-	-	4
175/225 mL (Falcon 2076/2075) [7]			4	4	4
250mL (Corning 25350-250 conical) [8]			-	-	4
250mL (IEC 2502, 2504, 2506)			4	4	4
500mL	77.1	5781	4	4	4
750mL (IEC 2273)	98.3	-	4	4	4
Blood Bags [9]		2077	4	-	-
		2039	-	4	4
Microplates (standard 86 x 128mm)		5784 [10]	4	-	-
		5782 [11]	-	8	8
Microplates (86 x 128 x 55mm) NEW! DEEP PLATE		5785 [11]	-	4	4
Microscope slides (25.4x76.2mm)		5799 [12]	4	4	4

* Order Centrac Adapters or microplate carriers separately.

Accessories



The Centra-GP8 Series accommodates literally hundreds of accessory combinations. Please call our Product Applications Representatives at (800) 843-1113 for help with your accessory selection.

1 Double stacking adapter
2 Adapter includes microtube inserts
3 Accepts 48 tubes, unsealed
4 Order three IEC 7323 sealed buckets per 5703 adapter for 15mL tubes or three IEC 323 sealed buckets for 50mL tubes
5 Triple level adapter; g-force is not uniform
6 Order Bellco 3045-10140
7 Order Falcon 2090 conical cushions
8 Order IEC 5793 conical cushions
9 Use triple/quad packs without adapter
10 Speed limited to 4000rpm/2650 xg
11 Speed limited to 3500rpm/2340 xg
12 Order one IEC 1C24 Cytobucket per adapter

Omit dome
Sealed
The clip-on domes of the 216 Rotor control aerosols and reduce windage.

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Specifications

MAXIMUM SPEEDS	5600 rpm (20 x 15mL)	811A Fixed Angle Rotor
	4600 rpm (4 x 750mL)	218 Windshielded Rotor
MAXIMUM FORCES	4630 xg (12 x 50mL)	822A Fixed Angle Rotor
	4550 xg (4 x 750mL)	218 Windshielded Rotor
MAXIMUM SAMPLE VOLUMES	3 liters (4 x 750mL)	216, 218, 228 Swinging Bucket Rotors
OPERATOR CONTROLS	Chamber Temperature (GP8R)	-5°C to +40°C, by 1°C
	Speed	500 -6000 rpm, by 10 and 100 rpm
	RCF	50-4650xg, by 1xg, 10xg and 100xg
	RPM/RCF	To enter rpm or rcf
	Auto-reset Timer	At-Start mode (timed run begins when start control pushed) At-Speed mode (timed run begins at 95% set speed) Hold (not timed runs)
	Timed Run Duration	1-59 by 1 sec., 1-4:45 by 15 sec., 5-360 by 1 min.
	Rotor Number/Radius	Enables rcf control, and modify rotor radius for rcf control at any point within tube
	Accel/Decel Rates	5 settings/6 settings
DIGITAL DISPLAYS	Actual/Set Parameters	Temp., RPM/RCF, Time, Program, Rotor/Radius
REPEATABILITY	Temperature Control (GP8R)	± 1°C (4°C to ambient)
	Rotation	to 10 rpm
	Time	to 0.1 seconds
DIAGNOSTIC DISPLAYS	Status Indicators	Imbalance, Brushes, No Rotor, Door Open, Tach Failure, Power Failure, Refrigeration Failure (GP8R)
REFRIGERATION	CFC-free Refrigerant	R-22 valid through year 2005
HEAT OUTPUT	GP8R	3000 Btu/hr.
(typical)	GP8	2150 Btu/hr.

About the GP8.

The GP8 Series is built to the international standards of IEC1010-2-020, is CSA certified, CE Marked and CFC free. At IEC, we know that *our* quality ensures *your* safety.

Dimensions

		GP8	GP8R	GP8 (Kneewell)*	GP8R (Kneewell)*	GP8 (Floor)**	GP8R (Floor)**
Height	Cover Open	92cm (36 in.)	92cm (36 in.)	113cm (45 in.)	113cm (45 in.)	147cm (58 in.)	147cm (58 in.)
	Cover Closed	44cm (17 in.)	44cm (17 in.)	65cm (26 in.)	65cm (26 in.)	90cm (35.5 in.)	90cm (35.5 in.)
Width		59cm (23 in.)	77cm (30 in.)	59cm (23 in.)	59cm (23 in.)	59cm (23 in.)	59cm (23 in.)
Depth		61cm (24 in.)	61cm (24 in.)	69cm (27 in.)	69cm (27 in.)	61cm (24 in.)	61cm (24 in.)
Weight	Net	91kg (200lbs.)	122kg (270lbs.)	109kg (240lbs.)	127kg (280lbs.)	168kg (370lbs.)	168kg (370lbs.)
	Shipping	111kg (245lbs.)	143kg (315lbs.)	129kg (285lbs.)	147kg (325lbs.)	204kg (450lbs.)	204kg (450lbs.)
Packing Case (All models)	Height	BENCHTOP & KNEEWELL: 79cm (31 in.)				FLOOR: 104cm (41 in.)	
	Width	89cm (35 in.)				89cm (35 in.)	
	Depth	74cm (29 in.)				76cm (30 in.)	
	Volume	0.51m³ (18.21 ft³)				.7m³ (24.9 ft³)	
POWER REQUIREMENTS	3-prong plug	**Cat. No. 3121**	**Cat. No. 3122**	**Cat. No. 3123**	**Cat. No. 3124**	**Cat. No. 3127**	**Cat. No. 3128**
	Single Phase	100•120•220•240 VAC 50/60 HZ, 10A	120 VAC 60 Hz,15A	100•120•220•240 VAC 50/60 HZ, 10A	120 VAC 60 Hz, 15A	100•120•220•240 VAC 50/60 HZ, 10A	220-240 VAC 50/60 Hz, 10A
	3-wire cord		**Cat. No. 3125**		**Cat. No. 3126**		**Cat. No. 3129**
	Single Phase		220-240 VAC 50/60 Hz, 10A		220-240 VAC 50/60 Hz, 10A		220-240 VAC 50/60 Hz, 10A

Ordering Information

CENTRA-GP8	Ventilated Benchtop Centrifuge	**Cat. No. 3121**
CENTRA-GP8R	Refrigerated Benchtop Centrifuge	**Cat. No. 3122**
CENTRA-GP8(K)*	Ventilated Kneewell Centrifuge	**Cat. No. 3123**
CENTRA-GP8R(K)*	Refrigerated Kneewell Centrifuge	**Cat. No. 3124**
CENTRA-GP8R	Refrigerated Benchtop Centrifuge	**Cat. No. 3125**
CENTRA-GP8R(K)*	Refrigerated Kneewell Centrifuge	**Cat. No. 3126**
CENTRA-GP8(F)	Ventilated Floor Model Centrifuge	**Cat. No. 3127**
CENTRA-GP8R(F)	Refrigerated Floor Model Centrifuge	**Cat. No. 3128**
CENTRA-GP8R(F)	Refrigerated Floor Model Centrifuge	**Cat. No. 3129**

*(K) signifies kneewell model

...fined...safety

10KEL5/95REV1

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