

COMPACT FLOOR MODEL CENTRIFUGES G/GR/GT 4.12-22



GT 4.22



DJB Labcare - The UK's Leading Centrifuge Specialist
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MAXIMUM PERFORMANCE:



By design, the G, GR and GT centrifuges from Jouan combine maximum performance with the minimum possible space requirements.

Unequaled choice. From the wide range of Jouan models you can choose the centrifuge which is specific to your needs and budget. Choose from : classical electronics or microprocessor control ; ventilated, refrigerated or thermostated variants ; bench-top (C series) or floor (G

series) models. The G series offers both classical electronics for routine use with the 4.12 models and microprocessor control with the 4.22 models. The 4.22 units give you the advantage of programmed centrifugation parameters for very accurate control and reproducibility of centrifuge runs.

Ventilated (G) and refrigerated (GR) versions are available in both 4.12 and 4.22 units with thermostated (GT) versions only in 4.22 format.

Precise temperature control. The range of temperature control is very wide on the refrigerated models : -8°C to +40°C and easily achieving 4°C at maximum speed.

An exceptionally wide temperature range of -8°C to +60°C is offered on the thermostated version (GT 4.22). The unique



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IN THE MINIMUM SPACE.

combination of heating and refrigeration ensures very precise control of temperatures above ambient - especially important when it is necessary to centrifuge samples at physiological temperatures.

The GR/GT 4.22 models also offer temperature compensation to ensure that samples (not just the centrifuge bowl) reach the required protocol temperatures.

Sample versatility. The G series centrifuges allow a wide range of sample tubes, vials, bottles, plates and microscope slides to be centrifuged. Blood collection tubes, blood bags, microtitre plates, culture tubes and bottles - even the 250 ml conical base tissue culture bottle - can all be centrifuged in the G series centrifuges using one rotor simply by changing buckets, carriers and inserts. M4 Swing-out rotor: 4 x 750 ml (3,400 to 4,300 x g) T4 Swing-out rotor: 4 x 250 ml (2,690 g). 6 angle rotors for 40x 15 ml, 10x 50 ml and 8x 100 ml tubes are available for applications requiring high RCF (max 9,320 x g).

Maximum safety. Biological safety has been given high priority in the design of these centrifuges. M4 and T4 sealed buckets with their transparent caps and "O" rings provide absolute containment of pathogenic or hazardous samples in the case of tube breakage. (Certified by the Centre for Applied Microbiological Research, Porton Down, UK). The sealed buckets system can be easily removed from the rotor and opened under a hood or autoclaved. User safety is completed with dual lid interlock, guard barrier ring and Jouan patented imbalance detector with shutdown. A bowl drain is fitted to enable hazardous spillages to be removed safely.

Optimized use of space. The G series models are compact, mobile alternatives to bench-top units. Ideal when bench space is at a premium. Jouan offers you both types. The G series centrifuges are designed to save precious lab bench space. Compact and mobile, they can be used, moved or stored almost anywhere. Once again - Jouan offers the Best Choice in Centrifugation.



NEW

sealed microtitre
plate carrier
Available
Now



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4.22: PRECISE COMMUNICATIONS



When the unit is switched on, the screen automatically shows the parameters of the program last used in a sequence of 3 displays: program number, speed, time (counts down during the run), rotor chamber temperature



acceleration and braking rates, sample temperature compensation.



radius of centrifugation. The performance can be displayed in RPM or RCF at any time.



Easy to program. G, GR and GT 4.22 indicate existing programs and program numbers available. Just choose a blank program number (among 50).



and enter your password. If you forget your password, it is always possible to use a test program memory which does not require a password.



the software includes a sophisticated autotest procedure for the main components so you can quickly ensure that all systems are in order. Centrifugation becomes child's play.

G, GR and GT 4.22 guide you through the programming process... just enter your desired values in sequence as the microprocessor requests them. Your programs are stored in one of the 50 permanent memories and are clearly displayed when recalled. Performance can even be programmed in RPM or RCF.

Stringent control

Jouan G 4.22 series centrifuges refuse input of any value out of the normal range. Acceleration, braking and temperature are continuously checked and controlled by the microprocessor and can be displayed at any time. The integrator provides the ultimate control of reproducibility even when changing rotors speed or RCF.

Simplified use

The new generation's centrifuge also offers many ergonomic and aesthetic features which simplify use...

The control panel is angled for improved visibility with a flat, easy-to-clean screen displaying clear messages. With a single key press the lid opens to its fullest extent. No knobs for manual adjustment and no complex control board to master.

Simple to create new programs and simple to recall and use existing programs: these features result in perfect run reliability and more efficient use of your time.



COVER ▶

alarm

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sealed 1174218-1773

	Bucket or carrier (set of 4)	Rack or insert (set of 4)	Rack or insert colour	Rack or insert capacity	Max. tube Ø (mm)	Min./max. tube ht. (mm)	Tube volume (ml)	Max. radius (mm)	G		GR		GT		
									Max. r.p.m.	Max. r.c.f. (g)	Max. r.p.m.	Max. r.c.f. (g)	Max. r.p.m.	Max. r.c.f. (g)	
T4 SWING-OUT ROTOR : 11175366	Standard buckets 11175367	11175340	Black	42	8.5	35/-	0.5-0.8	174	3500	2380	3700	2660	3600	2520	
		11175341	Salmon	20	11	35/-	1.5-2.2	174	3500	2380	3700	2660	3600	2520	
		11175342	Beige	30	11	65/107	3/5	174	3500	2380	3700	2660	3600	2520	
		11175343	Grey	26	12.7	67/107	5	174	3500	2380	3700	2660	3600	2520	
		11175357	White	7	18	35/-	5 flat bottom	174	3500	2380	3700	2660	3600	2520	
		11175344	Light blue	20	13.5	65/107	6	174	3500	2380	3700	2660	3600	2520	
	Transparent sealed lid 11175368	11175345	Yellow	18	13.5	65/108	7 vac	174	3500	2380	3700	2660	3600	2520	
		11175346	Red	12	16.5	65/112	10 vac	174	3500	2380	3700	2660	3600	2520	
		11175347	Cream	12	17.5	65/112	10 flat bottom	174	3500	2380	3700	2660	3600	2520	
		11175358	White	7	18	90/122	12 flat bottom	174	3500	2380	3700	2660	3600	2520	
		11175348	White	7	18	90/122	15 conical	176	3500	2410	3700	2690	3600	2550	
		11175349	Orange	7	16.5	90/127	15 vac	174	3500	2380	3700	2660	3600	2520	
	Spare seal 25439074	11175350	Brown	4	16.5	90/133	15 vac	176	3500	2410	3700	2690	3600	2550	
		11175351	Coral	8	22.2	90/116	20	176	3500	2410	3700	2690	3600	2550	
		11175352	Light yellow	5	25	90/120	25	176	3500	2410	3700	2690	3600	2550	
		11175375	Light yellow	5	25	90/120	25 flat bottom	176	3500	2410	3700	2690	3600	2550	
		11175353	Dark red	4	30.5	90/122	50	176	3500	2410	3700	2690	3600	2550	
		11175354	Light blue	3	30	90/117	50 conical	176	3500	2410	3700	2690	3600	2550	
		11175376	Light blue	3	30	90/117	50 flat bottom	176	3500	2410	3700	2690	3600	2550	
		11175361	Dark blue	2	35	90/122	50	176	3500	2410	3700	2690	3600	2550	
		11175355	Green	1	45	90/132	100	176	3500	2410	3700	2690	3600	2550	
		11175356	Turquoise	1	63	65/125	250 flat bottom	172	3500	2350	3700	2630	3600	2490	
	11175359 (set of 2)	Black	1 cytobucket (11172499 set of 2 buckets)					181	1570	500	1570	500	1570	500	
	11175360	5 sets of 4 decanting rubber pads (Ø 10.5 - 11 - 11.5 - 11.9 - 12.1 mm) for 11175343													
	4 buckets for STAGO/HITACHI racks 11175381				3 racks/bucket				180	3350	2258	3900	3060	3900	3060
	Microtration 11175377				3 plates			96 wells	158	3300	1923	3500	2164	3400	2045
	M4 SWING-OUT ROTOR : 11175338	Standard buckets 11174154	11174204	Black/light blue	30	8.5	40	0.8	165	4000	2950	4500	3740	4300	3410
			11174201	Black/light blue	30	11.5	40	1.5-2	160	4000	2860	4500	3600	4300	3310
			11174206	Black/coral	12	16.5	40	4 flat bottom	184	4000	3290	4500	4160	4300	3800
			11174205	Black/beige	9	18	40	4 flat bottom	184	4000	3290	4500	4160	4300	3800
11174157			Black/grey	37	12.5	100	5	172	4000	3070	4500	3900	4300	3560	
11174193			Black/grey	For decanting Ø 11.7 to 12.5				172	4000	3070	4500	3900	4300	3560	
PTFE coated 62813600		11174158	Black/light blue	30	13.5	100	6	172	4000	3070	4500	3900	4300	3560	
		11174159	Black/yellow	20	13.5	107	7 vac	172	4000	3070	4500	3900	4300	3560	
		11174160	Black/red	19	16.5	107	10 vac	172	4000	3070	4500	3900	4300	3560	
		11174216	White	16	17	60	5 flat	180	4000	3220	4500	4075	4300	3720	
		11174219	White	16	17	60/120	5/10 flat	180	4000	3220	4500	4075	4300	3720	
		11174208	Black/orange	12	16.5	125	10 flat bottom	184	4000	3290	4500	4160	4300	3800	
PTFE coated 62814801		11174188	Beige	9	18	120	10 flat bottom	172	4000	3070	4500	3900	4300	3560	
		11174161	Brown	7	17.7	134	15 vac	185	4000	3310	4500	4190	4300	3820	
		11174162	Beige	9	18	122	15 conical	184	4000	3290	4500	4160	4300	3800	
		11174190	Orange	12	16.5	125	15	184	4000	3290	4500	4160	4300	3800	
		11174163	Coral	12	22.2	108	20	177	4000	3170	4500	4010	4300	3660	
		11174186	Dark red	7	30	115	25 flat bottom	172	4000	3070	4500	3900	4300	3560	
Spare seal 85241381		11174164	Dark red	7	30	115	50	182	4000	3260	4500	4120	4300	3760	
		11174529	Black	7*	30	116	50 conical	185	4000	3310	4500	4190	4300	3820	
		11174191	Light blue	4	30	120	50 conical	185	4000	3310	4500	4190	4300	3820	
		11174199	Light blue	4	30	120	50 flat bottom	172	4000	3070	4500	3900	4300	3560	
		11174165	Dark blue	4	35	120	50	185	4000	3310	4500	4190	4300	3820	
		11174166	Dark green	2	45	118	100	185	4000	3310	4500	4190	4300	3820	
6 bottles PP 750 ml 41193190		11174167	Turquoise	1	63	134	250 flat bottom	185	4000	3310	4500	4190	4300	3820	
		11174192	Navy blue	1	80.5	125	450	185	4000	3310	4500	4190	4300	3820	
		11174202 (set of 2)	Black	1 cytobucket (11172499 set of 2 buckets)					180	1570	500	1570	500	1570	500
		11174203	600 ml stainless steel flat bottom bottle												
		11174169	Adaptor for blood bag (pediatric)												
		Microtration 11174168				3 plates			96 wells	169	4000	3023	4300	3493	4300
Sealed µT 11174223				3 plates			96 wells	167	3500	2314	3900	2839	3700	2839	
11174207	Rubber pad for flexible microtration plate														
500 ml buckets flat bottom 11175370				1			500	208	3500	2850	4200	4100	4000	3720	
11175371	250 ml conical bottle liner														
11175372	Buckets for 250 ml conical bottle														
11175378	Sealed buckets for 250 ml conical bottle														
11175385	Sealed buckets + liner for plasma/red cell separation														
OC 2.5 ROTOR 11175382	Supplied with 2 buckets for deepwell blocks			2 blocks or 1 double block/bucket				127							

* In open buckets only

ANGLE ROTORS	Rotor	Catalogue number	Capacity	Holes (mm)		Min./max. tube height	Max. radius	Angle	GR		GT			
				Ø	Depth				Max. r.p.m.	Max. r.c.f. (g)	Max. r.p.m.	Max. r.c.f. (g)		
	CD1	11175181	8 x 100 ml	44.5	101	106/115	134	35°	7000	7360	7200	7765	7200	7765
	CD2	11175183	10 x 50 ml	35	92	97/115	130	35°	7000	7640	7450	8065	7450	8065
	CD3	11175186	40 x 15 ml	18.5	93	96/110	132	35°	7000	6825	7000	7230	7000	7230
	CD4	11175180	40 x 15 ml	16.5	93	96/131	145	35°	6800	7495	7000	7945	7000	7945
	CD5	11175187	40 x 15 ml	16.5	110	115/130	144	35°	6800	6770	7000	7175	7000	7175
	Sealed	11175187	40 x 15 ml	16.5	107	112/127	144	35°	6500	7445	6700	7890	6700	7890
	Eppendorf	11174217	30 x 1.5/2 ml	11	open	40	115	55°	7000	6425	6300	6825	6700	6825
									7000	7130	7200	7580	7200	7580

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M4 : 3,000 ml at 4,300 g or 800 ml at 9,320 g (angle)



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SPECIFICATIONS

	G4.12	G4.22	GR4.12	GR4.22	GT4.22
• Maximum speed (rpm):					
- Swing-out:	4 000	4 000	4 500	4 500	4 300
- Angle:	7 800	7 800	8 000	8 000	8 000
• Maximum RCF (x g):					
- Swing-out:	3 400	3 400	4 300	4 300	3 930
- Angle:	8 840	8 840	9 320	9 320	9 320
• Maximum capacity:					
- Swing-out:	4 x 750 ml	4 x 750 ml	4 x 750 ml	4 x 750 ml	4 x 750 ml
- Angle:	8 x 100 ml	8 x 100 ml	8 x 100 ml	8 x 100 ml	8 x 100 ml
• Electronics:	Regular	µP	Regular	µP	µP
• Timer:	30 min	1 sec. to 99 min 59 s.	30 min	1 sec. to 99 min 59 s.	1 sec. to 99 min 59 s.
• Timer hold position:	yes	yes	yes	yes	yes
• Integrator (m.rd ² /s):	-	100 to 998 x 10 ⁹	-	100 to 998 x 10 ⁹	100 to 998 x 10 ⁹
• Braking:	2 rates	10 rates	2 rates	10 rates	10 rates
• Acceleration:	Fixed	10 rates	Fixed	10 rates	10 rates
• Temperature range:	-	-	-8 to 40°C 4°C at max. speed	-8 to 40°C 4°C at max. speed	-8 to 60°C 4°C at max. speed
• Memory:	-	50 prog.	-	50 prog.	50 prog.
• Max. power (VA):	900	1 000	1 300	1 500	1 700
• Dimensions H x W x D (mm):	915 x 555 x 630	915 x 555 x 630	905 x 555 x 630	905 x 555 x 630	905 x 555 x 630
- packed:	1160 x 750 x 680	1160 x 750 x 680	1160 x 750 x 680	1160 x 750 x 680	1160 x 750 x 680
• Weight uncrated/crated (kg):	90/120	90/120	115/145	115/145	115/145

CATALOGUE NUMBERS

• 220-240 V / 50 Hz:	11176911	11176915	11176913	11176917	11176919
• 120 V / 60 Hz:	11176908	11176914	11176912	11176916	11176918
• 230 V / 60 Hz:	-	-	11176927	11176929	11176930

 **Jouan**
Technology for Life

 Comply
with current
CE directives

 **Quality**
ISO 9001
AFAQ N° 1995/377

The quality of the product
The quality of customer service
The quality of the maintenance

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