

POWERFUL BENCH TOP CENTRIFUGES C/CR/CT 4.12-22



MAXIMUM PERFORMANCE IN THE MINIMUM SPACE.



Jouan now offers the widest range of bench top centrifuges to meet your needs. Each of the 5 bench-top models is dedicated to specific applications.

The range includes a choice of classical or programmable electronic control and 3 types of temperature control.

The same wide choice is offered as in the G series of compact floor-standing models.

Precise response to specific needs. 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 C 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 (C) and refrigerated (CR) versions are available in both 4.12 and 4.22 units with thermostated (CT) versions only in 4.22 format.

Total control of temperature. 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 (CT 4.22). The unique 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 CR/CT 4.22 models also offer temperature compensation to ensure that samples (not just the centrifuge bowl) reach the required protocol temperatures.



Unequalled choice of accessories.

The C 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 C 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 (2,490 g). 6 angle rotors for 40 x 15 ml, 10 x 50 ml and 8 x 100 ml tubes are available for applications requiring high RCF (max 9,320 x g), plus EPPENDORF tubes (30 x 1,5/2 ml).

Absolute priority to biological safety. 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 bucket 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.



T4: 4 x 250 ml at 2,550 g

7 x 15 ml
11175348



1 x 250 ml
11175356



12 x 10 ml
11175346



4 x 50 ml
11175353



5 x 25 ml
11175352



4 x 15 ml
11175350

3 x 50 ml
11175354



12 x 10 ml
11175347



1 x 100 ml
11175355



18 x 7 ml
11175345



30 x 3/5 ml
11175342



26 x 5 ml
11175343



8 x 20 ml
11175351



20 x 6 ml
11175344



7 x 15 ml
11175349



20 x 1.5 ml
Eppendorf
11175341



Insert
11175369



Cytobucket
11174197

42 x Microtainer
11173340



Buckets
microtitration
on T4.
11175377
2000 g.



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



Bucket or carrier (Set of 4)	Rack or insert (Set of 4)	Rack or insert colour	Rack or insert capacity	Max. tube dia (mm)	Min / Max. tube ht	Tube volume (ml)	Max. radius (mm)	C		CR-CT	
								Max. RPM	Max. RCF (g)	Max. RPM	Max. RCF (g)
Standard buckets 11175367 — 1 Lid 11175368	11175340	Black	42	8.5	35/-	0.5-0.8	174	3,500	2,380	3,600	2,520
	11175341	Salmon	20	11	35/-	1.5-2.2	174	3,500	2,380	3,600	2,520
	11175342	Grey	30	11	65/107	3/5	174	3,500	2,380	3,600	2,520
	11175343	Beige	26	12.7	67/107	5	174	3,500	2,380	3,600	2,520
	11175357	White	7	18	35/-	5 flat bottom	174	3,500	2,380	3,600	2,520
	11175344	Light blue	20	13.5	65/107	6	174	3,500	2,380	3,600	2,520
	11175345	Yellow	18	13.5	65/108	7 vac.	174	3,500	2,380	3,600	2,520
	11175346	Red	12	16.5	65/112	10 vac.	174	3,500	2,380	3,600	2,520
	11175347	Cream	12	17.5	35/112	10 flat bottom	174	3,500	2,380	3,600	2,520
	11175358	White	7	18	65/122	12 flat bottom	174	3,500	2,380	3,600	2,520
The lid converts a standard bucket to a sealed bucket	11175348	White	7	18	90/122	15 conical	176	3,500	2,410	3,600	2,550
	11175349	Orange	7	16.5	90/127	15 vac.	174	3,500	2,380	3,600	2,520
	11175350	Brown	4	16.5	90/133	15 vac.	176	3,500	2,410	3,600	2,550
	11175351	Coral	8	22.2	90/116	20	176	3,500	2,410	3,600	2,550
	11175352	Light yellow	5	25	90/120	25	176	3,500	2,410	3,600	2,550
	11175375	Light yellow	5	25	90/120	25 flat bottom	176	3,500	2,410	3,600	2,550
	11175353	Dark red	4	30.5	90/122	50	176	3,500	2,410	3,600	2,550
	11175354	Light blue	3	30	90/117	50 conical	176	3,500	2,410	3,600	2,550
	11175376	Light blue	3	30	90/117	50 flat bottom	176	3,500	2,410	3,600	2,550
	11175361	Dark blue	2	35	90/122	50	176	3,500	2,410	3,600	2,550
Spare seal 25439074	11175355	Green	1	45	90/132	100	176	3,500	2,410	3,600	2,550
	11175356	Turquoise	1	63	65/125	250 flat bottom	172	3,500	2,350	3,600	2,490
	11175359 (2)	Black	1 cytobucket (11174197 set of 2 buckets)				181	1,570	500	1,570	500
	11175360	4 sets of 4 decanting rubber pads (Ø 10.5 - 11 - 11.5 - 11.9 mm) for 11175343									
Microtitration			2 plates			96 wells	158	3,400	2,045	3,400	2,045

ANGLE ROTORS	Rotor	Catalogue number	Capacity	HOLES		Min./max tube ht	Max. Radius	C		CR-CT	
				Diameter	Depth			Max. RPM	Max. RCF	Max. RPM	Max. RCF
	CD 1	11175181	8 × 100 ml	44,5	101	106/115	134	7,500	8,430	7,700	8,890
	CD 2	11175183	10 × 50 ml	35	92	97/115	130	7,800	8,840	8,000	9,320
	CD 3	11175186	20 × 15 ml	18,5	93	96/110	132	7,300	7,860	7,500	8,320
			20 × 15 ml			96/110			8,640		9,130
	CD 4	11175180	20 × 15 ml	16,5	93	96/131	131	7,300	7,800	7,500	8,300
			20 × 15 ml			96/131	144		8,580		9,130
	CD5	11175187	20 × 15 ml	16,5	110	115/130	136	7,000	7,450	7,200	7,880
			20 × 15 ml		107	112/127	151		8,270		8,750
	Eppendorf	11174217	30×1.5/2 ml	11	open	40	115	7,500	7,230	7,700	7,620

SPECIFICATIONS

	C 4.12	C 4.22	CR 4.12	CR 4.22	CT 4.22
- Maximum speed (rpm) - Swing out - Angle	4,000 7,800	4,000 7,800	4,500 8,000	4,500 8,000	4,500 8,000
- Maximum RCF (g) - Swing out - Angle	3,400 8,840	3,400 8,840	4,300 9,320	4,300 9,320	4,300 9,320
- Maximum capacity - Swing out / angle	4 x 750 ml / 8 x 100 ml				
Electronics	regular	μ P	regular	μ P	μ P
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
Braking	2 rates	10 rates	2 rates	10 rates	10 rates
Acceleration	fixed	10 rates	fixed	10 rates	10 rates
Temperature range	—	—	0 to 40°C	-8 to +40°C	-8 to +60°C
			4°C at maximum 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	420 x 534 x 600 mm 16.5 x 21.8 x 23.6 in			420 x 820 x 600 mm 16.5 x 32.3 x 23.6 in	
Weight uncrated/crated	76/90 kg 168/198 lbs			98/115 kg 216/253 lbs	