

C3i - CR3i



1.5 LITRE
MULTI-FUNCTION
BENCH TOP CENTRIFUGES



DJB Labcare - The UK's Leading Centrifuge Specialist
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With AUTO-LOCK®

VERSATILITY IN 3 DIMENSIONS



A SINGLE MACHINE FOR

All your samples from 0.2 ml to 280 ml.

All your applications at low and high speed

All your programs in memory...

Only your ideas are needed.

YOUR SOLUTION FOR MEDICAL BIOLOGY IN CLINICS AND RESEARCH

- 48 x 7 ml - 48 x 15 ml - 60 x 1.5 ml
- Rapid rotor exchange
- Only 58 dBA at 3000 rpm
- Simple to use
- Maintenance-free induction motor

- 5 personalized memories
- Fast acceleration and braking
- Pulse key for short runs
- Pre-cool function
- Sealed bucket for biological safety

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BIOLOGICAL SAFETY

With the *C3i* series, you can centrifuge your pathogenic samples in absolute safety. Tubes, bottles, even microplates can all be totally confined in sealed accessories successfully tested by the C.A.M.R., Porton Down, for microbial integrity according to the G.J. Harper test cited in the IEC 1010-2-020 standard.

Imbalance detector and lid interlock ensure full operator detection.

SAMPLE PROTECTION

+4° C at full speed.

The refrigeration system in the *CR3i* is designed for intensive use, even in a warm laboratory.

Precooling of the instrument is obtained through a dedicated program.



ENVIRONMENTAL PROTECTION

The refrigerant fluid and insulation, totally devoid of chlorinated products (CFC, HCFC), are absolutely safe for the ozone layer.



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SWING-OUT ROTORS & ACCESSORIES

Catalogue number	Rotor	Description	Capacity	Ø mm	Height min./max. mm	Rad. mm	Max speed r.p.m	Max RCF (x g)	Angle deg.
11175710	T40	Swing-out rotor	4 x 280 ml	Ø 77		164	C3i: 4000 CR3i: 4100	C3i: 2934 CR3i: 3082	90
11175711		Set of 4 buckets	380 ml nominal	Ø 77			4100	3082	
11175712		4 sealing lids							
11175713		Set of 4 inserts	1 x 280 ml	64	104/113	161	4100	3026	
11175714		Set of 4 inserts	1 x 250 ml flat	61.7	87/112	161	4100	3026	
11175715		Set of 4 inserts	1 x 200 ml flat	55	84/110	156	4100	2932	
11175716		Set of 4 inserts	1 x 175 ml conical	60	89/120	178	4100	2969	
11175717		Set of 4 inserts	1 x 135 ml	43	89/121	161	4100	3025	
11175718		Set of 4 inserts	1 x 110 ml	40	89/122	158	4100	2969	
11175719		Set of 4 inserts	1 x 100 ml	38	86/123	161	4100	3026	
11175720		Set of 4 inserts	2 x 65 ml	34	85/104	156	4100	2932	
11175721		Set of 4 inserts	4 x 50 ml	28.5	87/106	132	4100	2481	
11175722		Set of 4 inserts	2 x 50 ml conical*	29	92/114	134	4100	2518	
11175723		Set of 4 inserts	5 x 38 ml	25.5	84/102	157	4100	2950	
11175724		Set of 4 inserts	5 x 25 ml	24	86/104	155	4100	2913	
11175725		Set of 4 inserts	4 x 25 ml Corex	24	86/107	155	4100	2913	
11175726		Set of 4 inserts	9 x 16 ml	18	88/107	160	4100	3007	
11175727		Set of 4 inserts	12 x 15 ml Corex/10 ml vacu	17.5	79/107	160	4100	3007	
11175729		Set of 4 inserts	7 x 15 ml conical	17	87/108	161	4100	3026	
11175730		Set of 4 inserts	4 x 15 ml conical	17	91/119	163	4100	3063	
11175731		Set of 4 inserts	5 x 15 ml conical*	17	91/116	163	4100	3063	
11175747		Set of 4 inserts	4 x 14 ml Corning	15.5	91/121	163	4100	3063	
11175732		Set of 4 inserts	12 x 13 ml	16	59/115	160	4100	3007	
11175728		Set of 4 inserts	9 x 10 ml LP	16	88/112	160	4100	3007	
11175733		Set of 4 inserts	19 x 8 ml	12	89/104	161	4100	3026	
11175734		Set of 4 inserts	19 x 5 ml RIA	12	59/104	161	4100	3026	
11175735		Set of 4 inserts	19 x 3 ml	11	59/106	161	4100	3026	
11175736		Set of 4 inserts	13 x epp 1.5/2 ml	10	43/110	159	4100	2988	
11175738		Set of 4 inserts	4 x 15 ml vacu*	16	91/124	163	4100	3063	
11175749		Set of 4 inserts	12 x 7 ml vacu	12.5	88/108	160	4100	3007	
11175740		Set of 4 inserts	12 x 5 ml vacu	12.5	57/107	160	4100	3007	
11175742		Set of 4 inserts	1 x AMICON Centripep	26	89/135	160	4100	3007	
11175753		Set of 2 cytobuckets**	3 cyto samples per cytobucket			108	4100	2030	90
11175750	T20	Swing-out rotor with carriers	6 x microplates or 2 x blocs			115	4100	2160	90
11175831		2 sealed carriers	2 x 2 microplates						
11174207		Rubber cushion for flexible microtitre plates							

Note: the RCF applied to tubes in T40 inserts is about 5% lower for the C3i.

* In open buckets only
** Max 2 sets per rotor
† In sealed buckets, all holes filled

ANGLE ROTORS

Catalogue number	Rotor	Description	Capacity	Ø mm	Height max mm	Rad. mm	Max speed r.p.m	Max RCF (x g)	Angle deg.
11175755	AC 15.4	Angle rotor	30 x 15 ml	17.5	100	135	C3i: 4000 CR3i: 4100	C3i: 2415 CR3i: 2537	37
11175756	AC100.10	Angle rotor	6 x 100 ml	38	101	99	9000	8965	25
11174713		Set of 6 adaptors	1 x 50 ml	29	103	93	9000	8422	
11174714		Set of 6 adaptors	1 x 50 ml conical	30	116	93	9000	8422	
11174724		Set of 6 adaptors	1 x 30 ml Corex	24	106	93	9000	8422	
11174725		Set of 6 adaptors	1 x 25 ml Corex	24	102	93	9000	8422	
11174726		Set of 6 adaptors	1 x 15 ml Corex/16 ml OR	18	102	92	9000	8331	
11174715		Set of 6 adaptors	1 x 30 - 39 ml	25.5	92	88	9000	7969	
11174716		Set of 6 adaptors	1 x 15 ml conical	17	122	93	9000	8422	
11174717		Set of 6 adaptors	2 x 10 ml	16	80	83	9000	7516	
11174718		Set of 6 adaptors	4 x 1.5 - 2 ml	11	39	79	9000	7154	
11175737	AC 10.12	Sealed angle rotor	10 x 10 ml	16	80	85	12000	13634	40
11174607		Set of 10 adaptors	1 x 6 ml	13	100	80	12000	12879	
11174603		Set of 10 adaptors	1 x 1.5 - 2 ml	11	39	64	12000	10303	
11175739	AC 1.14	Angle rotor + lid	20 x 1.5 ml	11	39	78	14000	17092	
11175741	AC 2.14	Sealed angle rotor	24 x 1.5 ml	11	39	84	14000	18407	45
41174928		Set of 20 adaptors	1 x 500 - 800 µl	Ø 8					
11174631		Set of 20 adaptors	1 x 200 µl PCR	Ø 6.5					
41174938		Set of 20 adaptors	1 x 250 / 400 / 700 µl	Ø 6					

DRUM ROTOR

Catalogue number	Rotor	Description	Capacity	Ø mm	Rad. mm	Max speed r.p.m	Max RCF (x g)	Angle deg.
11175743	DC 6.11	Drum rotor	6 racks		72	11000	6740	90
11174561		1 rack	10 x 1.5 - 2 ml	Ø 11				
11174573		1 rack	20 x 500 - 800 µl	Ø 8				
11174574		1 rack	20 x 700 µl	Ø 6				
11174563		1 rack	21 x 600 µl	Ø 6				
11174562		1 rack	32 x 250 - 400 µl	Ø 6				

Note: rotor performance may be limited by the tube performance as stated by the tube manufacturer.

JOUAN centrifuge rotors are products. Your equipment might therefore differ from its description as given in this list. 10/99 - Cat. N°: 89001150

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ECONOMICAL

The C3i series combines the possibilities of several machines for the price of a single unit.

Blood tubes, microtubes, cytology samples on slides, conical tubes for cell culture... accessories exist for all of them (8 rotors, 48 adaptors).

AUTO-LOCK : rotor exchange in 5 seconds.
Slide the rotor onto the drive shaft : it locks on naturally (patented system).

WORKING CONVENIENCE

One touch is all it takes. The program is selected, ready to run.

Personalize your operation.

A window beside each of the 5 memory keys enables you to clearly name the program or user. In addition, the PULSE key gives instant access to quick runs.

The C3i works quietly : 58 dBA at 3000 rpm.
Its motor is totally maintenance-free.
All the accessories are autoclavable.

ABSOLUTE RELIABILITY

Precise control at low speed for your cell cultures, gradual acceleration and braking rates for gradients, rapid rates when the samples allow (5 rates) ...the microprocessor controlled C3i series with 5 memories and induction motor adapts to your protocols with precision, repeatability and reliability.



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SPECIFICATIONS

Max speed	C3i	Swing-out : 4 000 rpm	Angle : 14 000 rpm
	CR3i :	Swing-out : 4 100 rpm	Angle : 14 000 rpm
Max RCF	C3i	Swing-out : 2 934 x g	Angle : 18 407 x g
	CR3i :	Swing-out : 3 082 x g	Angle : 18 407 x g
Max capacity		Swing-out : 4 x 280 ml	Angle : 6 x 100 ml
Precise control of all parameters ensured by microprocessor			
Displays (speed, T°, time, rates)	High visibility digital displays		
Memory size	5 personalized programs with direct recall key		
Speed	Range	500 to 14 000 rpm	
	Step	10 -100 rpm	
	Accuracy	± 20 rpm	
Timer	Range	30 sec to 99 min + hold position	
	Step	30 sec to 1 min	
Acceleration/braking rates	5/5		
Temperature	CR3i :	Range	-9°C to +40°C
		Step	1°C
		Accuracy	± 1.5°C
Typical performance	C3i :	Increase limited to +3°C to +10°C (max. speed)	
	CR3i :	1°C at 14 000 rpm, (20 x 1.5 ml), 4°C at 4 000 rpm, (4 x 280 ml)	
Motor	Maintenance-free, brushless induction motor		
Dimensions (H x W x D)	C3i : 372 x 400 x 492 mm	CR3i : 375 x 575 x 605 mm	
Weight	C3i : 40 kg	CR3i : 72 kg	
Average/max power	C3i : 350/500 W	CR3i : 550/800 W	



CATALOGUE NUMBERS

230 V - 50/60 Hz	C3i : 11175700	CR3i : 11175703
120 V - 60 Hz	C3i : 11175701	CR3i : 11175704



The quality of the product
The quality of customer service
The quality of the environment

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