

**Jouan C3i Multifunction
Centrifuge Series**



Performance, Flexibility, Compactness

Analyze • Detect • Measure • Control™

Thermo
ELECTRON CORPORATION

Thermo Electron's Jouan C3i multifunction centrifuge represents an unrivalled combination of flexibility and sophistication in a compact, 1.2 liter benchtop centrifuge. With the Jouan C3i, you'll have everything you need to meet a variety of sample preparation needs—both today and in the future.

The Jouan C3i combines the practicality of a 1.2 liter centrifuge with more advanced features you wouldn't expect to find in a 1.2 liter unit. Its broad selection of rotors and accessories, combined with its high-speed centrifugation capabilities, allow you to address applications ranging from routine clinical protocols (5/7 mL tubes at 3000 rpm, 10 times per day) to food quality control, to sophisticated research requiring continuous protocol adjustment and microvolume processing. With its diverse capabilities, the Jouan C3i can easily take the place of multiple units, saving you time, bench space and money.



1

Snap in your blood processing rotor and lock it in place.



2

Instantly unfasten and remove it.



3

You're ready to spin your microvolumes—in less than 5 seconds!

Fast Rotor Exchanges with AUTO-LOCK®

The Jouan C3i series provides a convenient AUTO-LOCK feature that allows you to swap rotors in 5 seconds, without having to remove or tighten locking nuts. In addition, your runs are shorter due to the C3i series' rapid acceleration and braking times, higher speeds (23113 x g for microtubes), and a pulse key for very short runs.



The Jouan C3i Multifunction Centrifuge

A Complete Solution for Every Sample Preparation Need

Unparalleled Flexibility

- The Jouan C3i series' extensive set of rotors, buckets and adapters addresses every protocol of the routine biology, cell culturing and research lab.
- A wide range of speeds—up to 14600 rpm—supports low-speed and high-speed protocols.
- The C3i delivers high capacity in a compact footprint. You can run 16x50mL, 60x5/7mL, 30x15mL or 60x1.5mL tubes, cell culture bottles or microplates without giving up precious bench space.
- With its fast acceleration and a PULSE key for short runs, the C3i series is also ideally suited for micro-volume applications.
- With the Jouan C3i, the radius can be precisely specified for every insert, resulting in a precise set and display of the RCF.
- Thermo's constant efforts in product development ensures continuous expansion of the accessory set to meet your changing needs.

Ease of Use

- A simple, intuitive control panel gives you single keystroke access to your frequently-used programs.
- The microprocessor-based KeyWrite™-D interface provides precise and repeatable control of your parameters.
- G-force run control ensures transferability of your protocols from other centrifuges, without cross-referencing to RPM.

Advanced Design

- The AUTO-LOCK® rotor exchange system lets you change rotors in seconds, allowing you to change protocols quickly and perform cleaning tasks with ease.
- The ventilated Jouan C3i incorporates advanced airflow features that minimize temperature increases.
- The Jouan C3i series' brushless induction motor is designed and manufactured by Thermo Electron to provide years of service with minimal maintenance.

Protection

- Supports a protected laboratory environment with a full set of sealed accessories, tested by CAMR* in Porton Down, England, the gold-standard in biological safety testing.
- With 5 acceleration and 5 braking rates, the C3i series lets you protect fragile samples and avoid resuspension, while still allowing for rapid run times.
- Quiet operation minimizes distractions.
- The CR3i series uses an ozone-friendly, CFC-free refrigerant for compliance with environmental protection regulations.

*CAMR is now incorporated within the UK Health Protection Agency (HPA.)



The Jouan C3i provides a user-friendly control panel, including a unique KeyWrite interface that gives you single keystroke access to your most frequently-used programs.

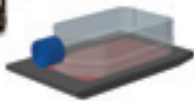
T40 High Throughput Swing-Out Rotor

Cat. No	Description	Container Volume	Capacity Insert	Capacity Rotor	Max tube ø (mm)	Max tube ht (mm)	Radius (mm)	Max speed C3i (rpm)	Max RCF C3i (xg)	Max speed CR3i (rpm)	Max RCF CR3i (xg)
11175710	T40 rotating head							4000		4100	
11175711	Set of 4 standard buckets				77						
11175712	Set of 4 sealing lids for 11175711 / 11175763		-								
11175763	Set of 4 buckets	5/7 mL vacu	15	60	13.5		165	4000	2952	4100	3101
11175752	Set of 4 buckets	50 mL con	4*	16*	33	120	169	4000	3023	4100	3176
11175759	Set of 4 buckets	50 mL con Self-Standing	3*	12*	33	120	169	4000	3023	4100	3176
11175713	Set of 4 inserts	280 mL	1	4	64	113	161	4000	2880	4100	3026
11175714	Set of 4 inserts	250 ml flat	1	4	61	112	161	4000	2880	4100	3026
11175715	Set of 4 inserts	200 mL	1	4	55	110	156	4000	2791	4100	2932
11175716	Set of 4 inserts	175 ml	1	4	60	120	166	4000	2969	4100	3120
11175717	Set of 4 inserts	135 mL	1	4	43	121	161	4000	2880	4100	3026
11175718	Set of 4 inserts	110 mL	1	4	40	122	158	4000	2826	4100	2969
11175719	Set of 4 inserts	100 mL	1	4	38	123	161	4000	2880	4100	3026
11175720	Set of 4 inserts	65 mL	2	8	34	104	156	4000	2791	4100	2932
11175722	Set of 4 inserts	50 mL con	2	8	29	114	134	4000	2397	4100	2518
11210348	Set of 4 inserts	50 ml Con	3*	12*	29	114	134	4000	2397	4100	2518
11175721	Set of 4 inserts	50 mL	4	16	28.5	106	132	4000	2361	4100	2481
11175742	Set of 4 inserts	AMICON Centriprep	1	4	28	135	160	4000	2862	4100	3007
11175723	Set of 4 inserts	38 mL	5	20	25.5	102	157	4000	2808	4100	2951
11175724	Set of 4 inserts	25 mL	5	20	24	104	155	4000	2773	4100	2913
11175725	Set of 4 inserts	25 mL Corex	4	16	24	107	155	4000	2773	4100	2913
11175726	Set of 4 inserts	16 mL	9	36	18	107	160	4000	2862	4100	3007
11175727	Set of 4 inserts	15 mL Corex 10 mL vacu	12	48	17	107	160	4000	2862	4100	3007
11175729	Set of 4 inserts	15 mL con	7	28	17	107	161	4000	2880	4100	3026
11175730	Set of 4 inserts	15 mL	4	16	17	119	163	4000	2916	4100	3063
11175731	Set of 4 inserts	15 mL	5*	20*	17	116	163	4000	2916	4100	3063
11175747	Set of 4 inserts	14 mL Corning	4	16	15.5	121	163	4000	2916	4100	3063
11175732	Set of 4 inserts	13 mL	12	48	16	115	160	4000	2862	4100	3007
11175728	Set of 4 inserts	10 mL LP	9	36	16	112	160	4000	2862	4100	3007
11175733	Set of 4 inserts	8 mL	19	76	12	104	161	4000	2880	4100	3026
11175734	Set of 4 inserts	5 mL RIA	19	76	13	104	161	4000	2880	4100	3026
11175735	Set of 4 inserts	3 mL	19	76	11	106	161	4000	2880	4100	3026
11175736	Set of 4 inserts	1.5/2 mL	13	52	10	42	159	4000	2844	4100	2988
11175738	Set of 4 inserts	15 mL vacu	4*	16*	16	124	163	4000	2916	4100	3063
11175749	Set of 4 inserts	7 mL vacu	12	48	12.5	106	160	4000	2862	4100	3007
11175740	Set of 4 inserts	5 mL vacu	12	48	12.5	75	160	4000	2862	4100	3007
11175753	Set of 2 cytobuckets		3 samples	12 samples	-	-	108	4000	1932	4100	2030

* in open buckets only



11175750



11210762



11175631

Improves cell growth

T20 High Throughput Rotor

Cat. No.	Description	Capacity	Max Tube ø (mm)	Min/Max Tube Ht. (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Angle (deg.)
11175750	Swing-out rotor with carriers	6 x microplates or 2 x blocks			115	4000 (C3i) 4100 (CR3i)	2057 (C3i) 2160 (CR3i)	90
11175631	2 sealed carriers	3 plates / 1 block each						
11174207	Rubber cushion for flexible microtiter plates							
11210762	2 adapters for Cell Culture Flasks	T-25 and T-75 Falcon® type						

AC 15.4 High Throughput Blood Tube Rotor

Cat. No.	Description	Capacity	Max Tube ø (mm)	Min/Max Tube Ht. (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Angle (deg.)
11175755	Angle rotor	30 x 15 mL	17.5	100/120	135	C3i : 4000 CR3i : 4100	C3i : 2415 CR3i : 2537	37



11175755

AC 100.10 High Capacity Angle Rotor



11175756

Cat. No.	Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Angle (deg.)
11175756	Angle rotor	6 x 100 mL	38	99	10000	11066	25°
-	directly	1 x 94/85/80 mL	38	99	10000	11066	
11174713	Set of 6 inserts	1 x 50 mL	29	93	10000	10397	
11174714	Set of 6 inserts	1 x 50 mL con	30	93	10000	10397	
11174715	Set of 6 inserts	1 x 30-38 mL	25.5	88	10000	9838	
11174716	Set of 6 inserts	1 x 1.5 mL con	17	93	10000	10397	
11174717	Set of 6 inserts	2 x 10 mL	16	83	10000	9279	
11174718	Set of 6 inserts	4 x 1.5-2 mL	11	79	10000	8832	
11174724	Set of 6 inserts	1 x 30 mL Corex	24	93	10000	10397	
11174725	Set of 6 inserts	1 x 25 mL Corex	24	93	10000	10397	
11174726	Set of 6 inserts	1 x 15 mL Corex / Oak Ridge	18	92	10000	10286	

AC 50.10A High Speed Rotor



11175754

Cat. No.	Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Angle (deg.)
11175754	Angle rotor	6 x 50 mL con./ round*	29.5 x 118	112	10000	12520	40
11174606	Set of 4 adapters	1 x 15 mL conical	17.5 x 111	112	10000	12520	
1117378	Set of 4 adapters	1 x 10 mL	17 x 75	91	10000	10174	
11174599	Set of 8 adapters	1 x 30/32 mL	26	105	10000	11738	

* Set of 6 conical to round adapter cushions supplied

AC 10.12 High Speed Rotor



11175737

Cat. No.	Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Angle (deg.)
11175737	Sealed angle rotor	10 x 10 mL	16 x 80	85	14600	20254	40
11175638	Spare sealing lid						
11174607	Set of 10 adapters	1 x 6 mL	13 x 100	80	14600	19063	
11174603	Set of 10 adapters	1 x 1.5/2 mL	11 x 37	64	14600	15250	

AC 1.14 and AC 2.14 Microvolume Rotors



11175739

Cat. No.	Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Angle (deg.)
AC 1.14							
11175739	Angle rotor + lid	20 x 1.5 mL	11 x 39	78	14600	18586	45
11175640	Spare lid						



11175741

Cat. No.	Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Angle (deg.)
AC 2.14							
11175741	Sealed angle rotor	24 x 1.5 mL	1 x 39	84	14600	20016	45
11175642	Spare sealing lid						

FAJM 2.16C - Acid and corrosion-resistant lightweight carbon fiber rotor



1117523

1117523	Sealed angle rotor	48 x 2 mL	11 x 39	97	14600	23113	90
41174928*	Set of 20 adapters	1 x 500/800 µL	8				
11174631*	Set of 20 adapters	1 x 200 µL PCR	6.5				
41174938*	Set of 20 adapters	1 x 250 / 400 / 700 µL	6				

* Suitable for the AC 1.14 and the AC 2.14 rotors

DC 6.11 Microvolume Drum Rotor



11175743

Cat. No.	Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Angle (deg.)
11175743	Drum rotor	6 racks*		72	14600	17156	90
11174561	1 rack	10 x 1.5/2 mL	11				
11174573	1 rack	20 x 500/800 µL	8				
11174574	1 rack	20 x 700 µL	6				
11174563	1 rack	21 x 600 µL	6				
11174562	1 rack	32 x 250/400 µL	6				

*Total rotor load is 60, 120, 120, 126 and 192 microtubes.

Jouan C3i and CR3i Multifunction Centrifuge Specifications



Specifications	C3i (ventilated)	CR3i (refrigerated)
Max Capacity		
Swing-out	4 x 280 mL	4 x 280 mL
Fixed Angle	6 x 100 mL	6 x 100 mL
Max Density	1.2	1.2
Max Load	1.34 kg	1.34 kg
Max Speed		
Swing-out	4000	4100
Fixed Angle	14600	14600
Max RCF		
Swing-out	3023	3176
Fixed Angle	23113	23113
Control System	Microprocessor	Microprocessor
Programs	5 (direct recall)	5 (direct recall)
Speed Set/Display		
Range	500 - 14600 rpm	500 - 14600 rpm
Step	10 rpm at less than 1000 rpm 100 rpm at above 1000 rpm	10 rpm at less than 1000 rpm 100 rpm at above 1000 rpm
Accuracy	±20 rpm (display)	±20 rpm (display)
RCF Set/Display		
Range	10 - 23100	10 - 23100
Step	10 x g at less than 1000 x g 100 x g at above 1000 x g	10 x g at less than 1000 x g 100 x g at above 1000 x g
Accuracy	±20 x g (display)	±20 x g (display)
Radius Control Definition	1 mm	1 mm
Timer Set/Display	30 s - 99 min + continuous	30 s - 99 min + continuous
Temperature Set/Display	N.A.	-9°C to 40°C
Acceleration Rates	5	5
Braking Rates	5	5
Drive System	Direct	Direct
Motor Type	Brushless induction	Brushless induction
Power (average / max)	350 / 500W	550 / 800 W
Standards	IEC 1010-1 IEC 1010-2-020 CE marked	IEC 1010-1 IEC 1010-2-020 CE marked

Ordering Information	C3i (ventilated)	CR3 i (refrigerated)
Catalog Numbers		
230V - 50/60 Hz	11175770	11175774
120 V - 60 Hz	11175771	11175775
Product Dimensions		
Height / lid closed [cm / in]	37 / 14.6	37 / 14.6
Width [cm / in]	40 / 15.7	57 / 22.4
Depth [cm / in]	50 / 19.7	60 / 23.6
Weight unpacked [kg / lb]	40 / 88.1	72 / 158.7
Packing Dimensions		
Height [cm / in]	60 / 23.6	61 / 24.0
Width [cm / in]	61 / 24.0	76 / 29.9
Depth [cm / in]	54 / 21.2	74 / 29.1
Weight packed [kg / lb]	52 / 114.6	85 / 187.3

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