



## Thermo Scientific IEC CL31 Multispeed Centrifuge Series

Maximum Versatility,  
Exceptional Capacity  
and Performance



Featuring Fast Rotor Exchanges with AUTO-LOCK®

DJB Labcare - The UK's Leading Centrifuge Specialist  
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## Maximum Productivity, Exceptional Capacity and Performance

The Thermo Scientific IEC CL31 Multispeed Centrifuge Series combines unsurpassed versatility with exceptional speed, capacity and safety, making it a complete solution for all of your sample preparation needs.

### Unparalleled Flexibility

- The IEC CL31 Series' extensive set of rotors, buckets and adapters addresses every protocol of the routine biology, cell culturing and research lab.
- The IEC CL31 Series delivers high capacity in a compact footprint. You can run 16 x 50 mL, 60 x 5/7 mL, 30 x 15 mL or 60 x 1.5 mL tubes, cell culture bottles or microplates—without giving up precious bench space.
- With its fast acceleration and a PULSE key for short runs, the IEC CL31 Series is also ideally suited for micro-volume applications.
- With the IEC CL31 Series, the radius can be precisely specified for every insert, resulting in a precise set and display of the RCF.

### 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 IEC CL31 Series' brushless induction motor is designed to provide years of service with minimal maintenance.

### Protection

- The IEC CL31 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.
- Quiet operation minimizes distractions.
- The CL31R centrifuge uses an ozone-friendly, CFC-free refrigerant for compliance with environmental protection regulations.

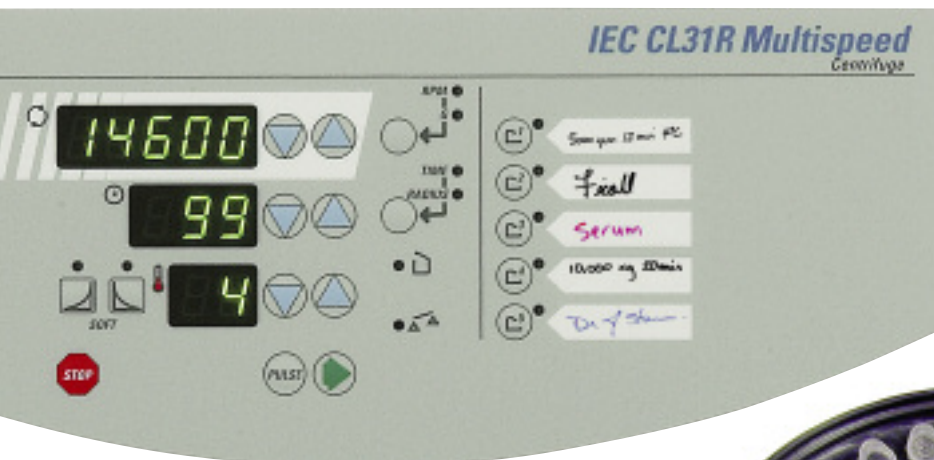
### Ease of Use

- A simple, intuitive control panel gives you single keystroke access to your frequently-used programs.
- G-force run control ensures transferability of your protocols from other centrifuges, without cross-referencing to RPM.

### History of Quality and Value

- Building upon 105 years of experience, the IEC CL31 centrifuge leverages our substantial expertise in laboratory equipment to provide a high-quality, user-friendly centrifuge that addresses the everyday needs of today's demanding laboratories.

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



The IEC CL31 Multispeed Series provides a user-friendly control panel, including a unique interface that gives you single-keystroke access to your most frequently-used programs.



### High Capacity, Advanced Technology

The IEC CL31 Multispeed Series offers a high-capacity, 48 x 2 mL carbon fiber rotor. This advanced material is easier to manage and offers a safer alternative to conventional metallic rotors, which can crack with age. Capable of supporting higher capacities and higher G-forces, the 48-place carbon fiber rotor also provides a high level of chemical resistance against corrosive agents, making it a truly cost-effective investment for your lab.

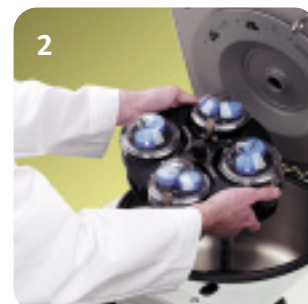
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## Fast Rotor Exchanges with AUTO-LOCK

The IEC CL31 Series provides a convenient AUTO-LOCK feature that allows you to swap rotors in 5 seconds, without having to search for tools, or remove and tighten lug nuts. With this unique feature, you can conduct your separations in complete confidence, knowing that your rotor is fully locked in place. It also makes your routine cleaning operations faster and easier, offering additional time-savings.



**1**  
Snap in your conical tube rotor and lock it in place.



**2**  
Instantly unfasten and remove it.



**3**  
Snap in a new rotor and you're ready to spin your microtubes—in less than 5 seconds!



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## Thermo Scientific IEC CL31 Rotors and Accessories



11210435

### T41 Swing-Out Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>T41 Swing-Out Rotor, 4 x 280 ml</b>						<b>11210435</b>
Standard buckets, 280 ml (set of four)		<b>77</b>	<b>164</b>	<b>4100</b>	<b>3082</b>	<b>11210436</b>
Buckets, 4 x 50 ml conical (set of four)	<b>16</b>	<b>33</b>	<b>169</b>	<b>4100</b>	<b>3176</b>	<b>11175752</b>
Buckets, 15 x 5/7 ml BD Vacutainer® (set of four)	<b>60</b>	<b>13.5</b>	<b>165</b>	<b>4100</b>	<b>3101</b>	<b>11175763</b>
Sealing lids for 11210436 and 11175763 (set of four)						11175712
<b>Adapters for T41 Swing-Out Rotor (set of four)</b>						
1 x 280 ml round	4	64	161	4100	3026	11175713
1 x 250 ml flat	4	61	161	4100	3026	11175714
1 x 200 ml flat	4	55	156	4100	2932	11175715
1 x 175 ml conical	4	60	166	4100	3120	11175716
1 x 100 ml	4	38	161	4100	3026	11175719
2 x 65 ml round	8	34	156	4100	2932	11175720
4 x 50 ml round	16	28.5	132	4100	2481	11175721
1 x 50 ml conical skirted	4	29	163	4100	3063	85540175
<b>2 x 50 ml conical</b>	<b>8</b>	<b>29</b>	<b>134</b>	<b>4100</b>	<b>2518</b>	<b>11175722</b>
<b>3 x 50 ml conical*</b>	<b>12</b>	<b>29</b>	<b>134</b>	<b>4100</b>	<b>2518</b>	<b>11210348</b>
1 x Centriprep®	4	28	160	4100	3007	11175742
5 x 30 ml round	20	25.5	157	4100	2951	11175723
<b>3 x 25 ml universal</b>	<b>12</b>	<b>26</b>	<b>153</b>	<b>4100</b>	<b>2875</b>	<b>11204125</b>
5 x 25 ml	20	24	155	4100	2913	11175724
4 x 25 ml Corex®	16	24	155	4100	2913	11175725
9 x 16 ml round	36	18	160	4100	3007	11175726
<b>12 x 10 ml BD Vacutainer</b>	<b>48</b>	<b>17</b>	<b>160</b>	<b>4100</b>	<b>3007</b>	<b>11175727</b>
<b>4 x 15 ml BD Vacutainer *</b>	<b>16</b>	<b>16</b>	<b>163</b>	<b>4100</b>	<b>3063</b>	<b>11175738</b>
7 x 15 ml urine	28	17	161	4100	3026	11175729
<b>4 x 15 ml conical</b>	<b>16</b>	<b>17</b>	<b>163</b>	<b>4100</b>	<b>3063</b>	<b>11175730</b>
<b>5 x 15 ml conical *</b>	<b>20</b>	<b>17</b>	<b>163</b>	<b>4100</b>	<b>3063</b>	<b>11175731</b>
4 x 14 ml Corning® round	16	15.5	163	4100	3063	11175747
12 x 13 ml	48	16	160	4100	3007	11175732
9 x 10 ml	36	16	160	4100	3007	11175728
19 x 8 ml	76	12	161	4100	3026	11175733
<b>12 x 5/7 ml BD Vacutainer</b>	<b>48</b>	<b>12.5</b>	<b>160</b>	<b>4100</b>	<b>3007</b>	<b>11175740</b>
19 x 5 ml RIA	76	13	161	4100	3026	11175734
19 x 3 ml RIA	76	11	161	4100	3026	11175735
13 x 2 ml	52	10	159	4100	2988	11175736

\* In open buckets only.



11210246

11175611

Inserts

### S41 Swing-Out Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>S41 Swing-Out Rotor, 4 x 200 ml</b>						<b>11210246</b>
Standard buckets, 200 ml (set of four)		<b>57</b>	<b>161</b>	<b>4100</b>	<b>3026</b>	<b>11175611</b>
Sealing lids for 11175611 (set of four)						11175612
<b>Adapters for S41 Swing-Out Rotor (set of four)</b>						
200 ml PP bottle p/n 41193271	4	56.5	161	4100	3026	direct
1 x 100 ml	4	45	159	4100	2990	11174181
1 x 50 ml round	4	35	158	4100	2970	11174501
<b>1 x 50 ml conical</b>	<b>4</b>	<b>29</b>	<b>159</b>	<b>4100</b>	<b>2990</b>	<b>11174528</b>
<b>1 x 25 ml universal flat/skirt</b>	<b>4</b>	<b>25</b>	<b>158</b>	<b>4100</b>	<b>2970</b>	<b>11174527</b>
3 x 20 ml	12	22	159	4100	2990	11174502
<b>3 x 15 ml conical</b>	<b>12</b>	<b>17.5</b>	<b>156</b>	<b>4100</b>	<b>2936</b>	<b>11174537</b>
7 x 15 ml Nalgene®	28	17	156	4100	2936	11174183
3 x 15 ml urine	12	17	159	4100	2990	11210419
<b>3 x 15 ml BD Vacutainer</b>	<b>12</b>	<b>17.5</b>	<b>159</b>	<b>4100</b>	<b>2990</b>	<b>11210523</b>
3 x 12 ml Greiner flat	12	17.5	159	4100	2990	11174509
<b>5 x 10 ml BD Vacutainer</b>	<b>20</b>	<b>16</b>	<b>159</b>	<b>4100</b>	<b>2990</b>	<b>11174503</b>
5 x 5/10 ml flat	20	17	159	4100	2990	11174534
<b>7 x 5/7 ml BD Vacutainer</b>	<b>28</b>	<b>13</b>	<b>159</b>	<b>4100</b>	<b>2990</b>	<b>11210604</b>
<b>9 x 5 ml BD Vacutainer</b>	<b>36</b>	<b>13.5</b>	<b>159</b>	<b>4100</b>	<b>2990</b>	<b>11174505</b>
5 x 5 ml flat	20	17	158	4100	2990	11174533
12 x 3-5 ml	48	12	163	4100	2970	11174506
6 x 2 ml	24	11	158	4100	2970	11174508



Indicates that the centrifuge accessory has been successfully tested for biological containment by CAMR (HPA) Porton Down, UK.

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### T20 Microplate Rotor

Description	Capacity	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>T20 Microplate Rotor</b>	<b>2 x 3 microplates / 2x1 deepwell</b>	<b>115</b>	<b>4100</b>	<b>2160</b>	<b>11175750</b>
Sealed plate carriers (set of two)	2 x 3 microplates / 2x1 deepwell				11175631
Rubber cushion for flexible microplates					11174207
Flask adapters (set of two)	2 x 1 T-25 or T-75 Falcon® type flasks				11210762



11175755

### AC15.4 Fixed-Angle Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>AC15.4 Fixed-Angle Rotor, 37°</b>	<b>30 x 15 ml</b>	<b>17.5</b>	<b>135</b>	<b>4100</b>	<b>2537</b>	<b>11175755</b>
<b>Adapters (each)</b>						
1 x 10/15 ml	30	135	4100	2537	direct	
1 x 13.5 ml	30	130	4100	2440	11203666	
1 x 8/7 ml BD Vacutainer	30	130	4100	2440	11172596	
1 x 5 ml BD Hemogard®	30	116	4100	2180	11172595	
1 x 5 ml	30	116	4100	2180	11172402	
1 x 3 ml	30	112	4100	2100	11172287	
1 x 2/1.5 ml	30	105	4100	1970	11172288	



11210437

### AC100.10A Fixed-Angle Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>AC100.10A Fixed-Angle Rotor, 25°</b>	<b>6 x 100 ml</b>	<b>38</b>	<b>99</b>	<b>10000</b>	<b>11066</b>	<b>11210437</b>
<b>Adapters (set of six)</b>						
1 x 50 ml round	6	29	93	10000	10397	11174713
1 x 50 ml conical	6	30	93	10000	10397	11174714
1 x 38 ml round	6	25.5	88	10000	9838	11174715
1 x 15 ml conical	6	17	93	10000	10397	11174716
2 x 10 ml round	12	16	83	10000	9279	11174717



11175754

### AC50.10 Fixed-Angle Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>AC50.10 Fixed-Angle Rotor, 40°</b>	<b>6 x 50 ml con</b>	<b>29.5</b>	<b>112</b>	<b>10000</b>	<b>12520</b>	<b>11175754</b>
<b>Adapters</b>						
1 x 50 ml conical (each)	6	30	112	10000	12520	direct
1 x 50 ml round (set of six)	6	28.5	112	10000	12520	11210577
1 x 30/38 ml (set of eight)	6	26	91	10000	10174	11174599
1 x 15 ml conical (set of four)	6	17.5	105	10000	11738	11174606
1 x 10 ml (set of four)	6	17	112	10000	12520	11177378



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### AC2.14 Sealed Microtube Rotor

Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>AC2.14 Sealed Rotor, 45°</b>	<b>24 x 2 ml</b>	<b>11</b>	<b>84</b>	<b>14600</b>	<b>20016</b>	<b>11175741</b>
Spare lid for AC2.14 Rotor						11173842

**Adapters: see adapters for FIBERLite High-Throughput Microtube Rotor**



11210351

### FIBERLite® High Throughput Rotor

Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>FIBERLite Microtube Rotor, 45°</b>	<b>48 x 2 ml</b>	<b>11</b>	<b>97</b>	<b>14600</b>	<b>23113</b>	<b>11210351</b>
<b>Adapters (set of 24)</b>						
1 x 2/1.5 ml	24 / 48	10				direct
1 x 0.5 / 0.8 ml	24 / 48	8				41174928
1 x 0.5 ml	24 / 48	6				41174938
1 x 0.2 ml PCR	24 / 48	6				11174631



11175743

### DC6.11 Drum Rotor

Description	Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
<b>DC6.11 Drum Rotor, 90°</b>		<b>N/A</b>	<b>72</b>	<b>14600</b>	<b>17158</b>	<b>11175743</b>
<b>Adapters (one rack)</b>						
10 x 1.5–2 ml	60	11				11174561
20 x 0.5–0.8 ml Microtainer™	120	8				11174573
20 x 0.7 ml Rhesus	120	6				11174574
21 x 0.6 ml Vitratron	126	6				11174563
32 x 0.25–0.4 ml Beckman®	192	6				11174562

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## Thermo Scientific IEC CL31 Multispeed Centrifuge Series Specifications



Specifications	IEC CL31	IEC CL31R
<b>Max Capacity</b>		
Swing-out	4 x 280 mL	4 x 280 mL
Fixed Angle	6 x 100 mL	6 x 100 mL
<b>Max Density</b>	1.2	1.2
<b>Max Load</b>	1.34 kg	1.34 kg
<b>Max Speed</b>		
Swing-out	4100 rpm	4100 rpm
Fixed Angle	14600 rpm	14600 rpm
<b>Max RCF</b>		
Swing-out	3176 x g	3176 x g
Fixed Angle	23113 x g	23113 x g
<b>Control System</b>	Microprocessor	Microprocessor
<b>Programs</b>	5 (direct recall)	5 (direct recall)
<b>Speed Set/Display</b>		
Range	500 - 14600 rpm	500 - 14600 rpm
Step	10 rpm	10 rpm
Accuracy	±10 rpm	±20 x rpm (display)
<b>RCF Set/Display</b>		
Range	10 - 23100	10 - 23100
Step	1 x g	1 x g
Accuracy	±20 x g (display)	±10 x g
<b>Radius Control Definition</b>	1 mm	1 mm
<b>Timer Set/Display</b>	30 s - 99 min + continuous	30 s - 99 min + continuous
<b>Temperature Set/Display</b>	N.A.	-9°C to 40°C
<b>Acceleration Rates</b>	5	5
<b>Braking Rates</b>	5 + no brake	5 + no brake
<b>Drive System</b>	Direct	Direct
<b>Motor Type</b>	Brushless induction	Brushless induction
<b>Power (average / max)</b>	350 / 500W	550 / 800 W
<b>Standards</b>	IEC 1010-1, IEC 1010-2-020, CE marked UL listed, cUL certified	IEC 1010-1, IEC 1010-2-020, CE marked UL listed, cUL certified

Ordering Information	IEC CL31	IEC CL31R
<b>Catalog Numbers</b>		
230V - 50/60 Hz	11210913	11210917
120V - 60 Hz	11210914	11210918
<b>Product Dimensions</b>		
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
<b>Packing Dimensions</b>		
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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