



**Thermo Scientific MicroCL 17 and 21  
Microcentrifuge Series**

**a new separation  
experience**

**Thermo**  
SCIENTIFIC



# Micro



## Thermo Scientific MicroCL 17 and 21 Microcentrifuges

Our **Thermo Scientific MicroCL 17 and 21** microcentrifuges combine power, versatility and convenience in a safe, compact, easy-to-use lab instrument. Available in both ventilated and refrigerated models, the MicroCL 17 and 21 microcentrifuges are designed to accelerate your routine sample preparation processes by providing high speed and generous capacity along with outstanding safety and convenience.

From the intuitive controls to the innovative Thermo Scientific ClickSeal biocontainment lid, the MicroCL 17 and 21 microcentrifuges deliver the perfect blend of capabilities to support your micro-volume protocols such as nucleic acid or protein lysate preparation and PCR reaction set-up — all in a remarkably small footprint.



See the new separation experience in action at  
[www.thermoscientific.com/centrifugevideos](http://www.thermoscientific.com/centrifugevideos)

Highly visible  
display can be read  
across the lab.



## powerful, versatile, easy-to-use

Available in two speed options, the **MicroCL 17 microcentrifuge** is perfect for routine laboratory work, while the **MicroCL 21 microcentrifuge** is ideal for high-end research applications, reducing spin times by up to 20%.

Coupled with our extensive rotor selection, **achieve the speed and versatility** you need to carry out complex as well as simple protocols:

- ▶ Our standard rotor runs 24 tubes in a single row with equalized g-forces for reproducibility, from 1.5 to 2.0 mL tubes to mini-preps and spin columns
- ▶ A unique dual row rotor holds 18 x 1.5/2.0 mL and 18x 0.5 mL tubes, eliminating the need for adapters
- ▶ Special high-capacity rotors support 0.5 mL microtubes, 0.2 mL PCR tubes and hematocrit capillary tubes

### **Save time by processing samples faster**

- ▶ Exceptional acceleration up to 21,100 xg in 12 seconds
- ▶ Refrigerated versions offer cooling in just nine minutes

Unique ClickSeal® biocontainment rotor lid “clicks” in place, providing **assurance that samples are securely contained**, and with one click opening, shortens retrieval time compared to screw-on lids

New PPSU lids have **improved strength and chemical resistance** compared with polycarbonate and metallic lids, and transparency enables viewing for added safety and convenience

**Quiet performance** (<56 dBA ventilated and <50 dBA refrigerated) provides a safe, stress-free environment

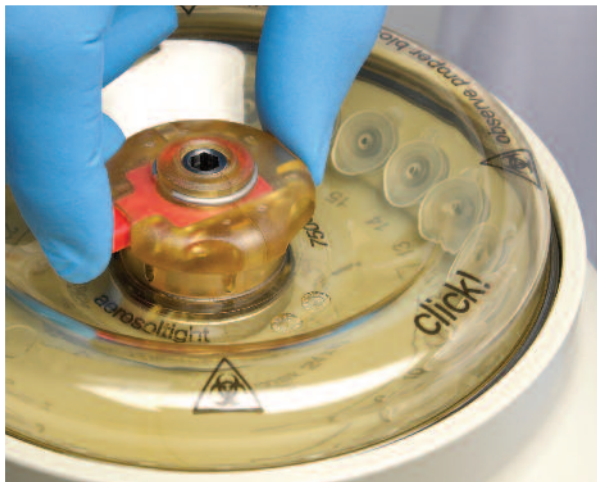
**Intuitive controls** and **easy-to-read display** simplifies operation

Highly resistant unit and rotor materials enables vigorous yet **easy cleaning**

Conforms to the latest clinical and safety standards, including **In Vitro Diagnostics (IVD) compliance**



# CL 17 and 21



First in the industry, ClickSeal biocontainment lids provide certified, ergonomic, one click rotor opening and closing.


24 spin columns in standard rotor with ClickSeal biocontainment lid.



Unique dual row rotor eliminates adapters.



# Thermo Scientific Microcentrifuge Rotors and Accessories

| Description  | Rotor Capacity        | Max Tube Dimensions | Max Speed (rpm) | Max RCF (xg) | Cat. No. |
|--|-----------------------|---------------------|-----------------|--------------|----------|
| <b>24 x 1.5/2.0 mL rotor with ClickSeal biocontainment lid</b><br><br>Standard rotor with exceptional versatility – 24 tubes per run from basic microtube processing to mini-preps and spin columns and additional flexibility with available adapters. | 24 x 1.5/2.0          | 11 x 50             | 14,800          | 21,100       | 75003424 |
| 0.5/0.6 mL microliter tube adapters, pack of 24  | 24 x 0.5/0.6          | 7 x 32              | 14,800          | 21,100       | 76003252 |
| 0.25/0.4 mL microliter tube adapters, pack of 24   | 24 x 0.25/0.4         | 6 x 24              | 14,800          | 21,100       | 76003251 |
| 0.2 mL PCR tube adapters, pack of 24   | 24 x 0.2              | 6 x 24              | 14,800          | 21,100       | 76003250 |
| <b>36 x 0.5 mL rotor with screw-on lid</b><br>Increase throughput for smaller microtubes.  | 36 x 0.5              | 7 x 32              | 14,800          | 19,300       | 75003436 |
| <b>Dual Row rotor 18 x 2.0 /0.5 mL with screw-on lid</b><br>Accommodate two different size tubes in one rotor.   | 18 x 2.0/<br>18 x 0.5 | 11 x 50             | 14,800          | 20,800       | 75003418 |
| <b>PCR 8 x 8 rotor with screw-on lid</b><br>Centrifuge up to 8 PCR strips at one time.   | 64 x 0.2              | 6 x 24              | 14,800          | 17,100       | 75003489 |
| <b>PCR 4 x 8 rotor with ClickSeal biocontainment lid</b><br><br>Process up to 4 PCR strips with certified sample protection.  | 32 x 0.2              | 6 x 24              | 14,800          | 16,200       | 75003440 |
| <b>Hematocrit rotor</b><br>Achieve capillary separations in less than 5 minutes with included linear scale to read results.  | 24<br>Capillaries     |                     | 14,800          | 16,800       | 75003473 |
| Capillaries, pack of 100   | 24<br>Capillaries     |                     |                 |              | 76000923 |
| Linear scale reading graph   |                       |                     |                 |              | 76000938 |

\*Used with rotor 75003424 and rotor 75003440

| Replacement Lids                                    | Cat. No. |
|---|----------|
| ClickSeal biocontainment lid*                       | 75003410 |
| Replacement O-ring set for ClickSeal lid – 75003410 | 75003405 |
| Screw-on lid  | 75003406 |

## Thermo Scientific MicroCL 17 and 21 Microcentrifuges



| Specifications                  | MicroCL 17/17R   | MicroCL 21/21R |
|---------------------------------|--|----------------|
| Max RCF                         | 17,000 xg  | 21,100 xg      |
| Max Speed                       | 13,300 rpm   | 14,800 rpm     |
| Max Noise Level                 | 56 dBA (ventilated), 50 dBA (refrigerated)                   |                |
| Acceleration/Deceleration Rates | 8/9 seconds; 12/12 seconds <sup>1</sup>                      |                |
| Time Set Range                  | 1 min - 99 min; 1 min increments + HOLD mode                 |                |
| Temperature Range <sup>2</sup>  | Set from -9 °C to +40 °C per 1 °C increment                  |                |
| Certifications                  | CSA certified, CE marked, IVD compliant, Certified Biosafety |                |
| Technical Standards             | IEC 61010-1, IEC 61010-2, IEC 61010-020                      |                |
| Dimensions, H x W x D           |  |                |
| MicroCL 17/21                   | 225 x 243 x 352 mm (8.86 x 9.56 x 13.8 in)                   |                |
| MicroCL 17R/21R                 | 330 x 295 x 445 mm (12.9 x 11.6 x 17.5 in)                   |                |

<sup>1</sup> In 120V models<sup>2</sup> Refrigerated models only

IVD



| Ordering Information  | 230V 50/60 Hz | 120V 60 Hz         | 230V 50/60 Hz | 120V 60 Hz |
|---|---------------|--------------------|---------------|------------|
| <b>MicroCL 17</b>   |               | <b>MicroCL 17R</b> |               |            |
| Thermo Scientific MicroCL microcentrifuge, includes 24 x 1.5/2.0 mL rotor with ClickSeal biocontainment lid | 75002450      | 75002451           | 75002455      | 75002456   |
| Thermo Scientific MicroCL microcentrifuge, includes hematocrit rotor  | 75002495      | 75002496           | N/A           | N/A        |
| <b>MicroCL 21</b>   |               | <b>MicroCL 21R</b> |               |            |
| Thermo Scientific MicroCL microcentrifuge, includes 24 x 1.5/2.0 mL rotor with ClickSeal biocontainment lid | 75002465      | 75002466           | 75002470      | 75002471   |

Experience our complete line of Thermo Scientific micro-volume solutions and  
**achieve the speed, capacity and versatility your protocols require**  
 — visit [www.thermoscientific.com/microcentrifuge](http://www.thermoscientific.com/microcentrifuge).



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