



**Designed for your clinical, diagnostic
and research needs**

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Thermo Scientific™ Forma™ High-Performance
Laboratory Refrigerators and FreezersIt's a cold
hard fact:

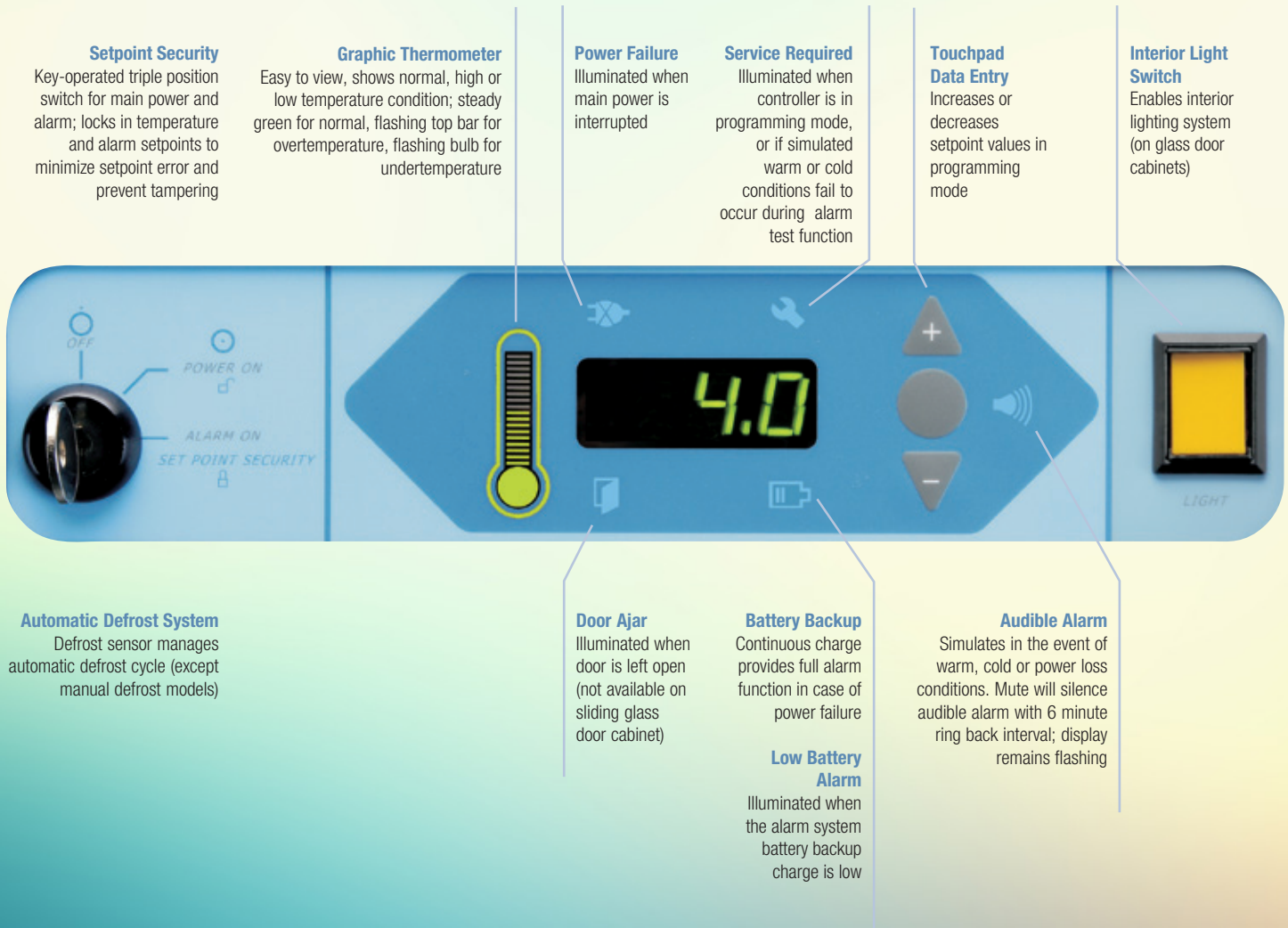
Temperature variation can have an impact on the viability of samples and the efficacy of reagents. These variations can shorten product shelf life, degrade enzymes and reduce vaccine effectiveness. Therefore, it's important to choose a high-performance refrigerator or freezer that has been designed for the demanding standards of the clinical and laboratory environment.

We continually search for ways to enhance our products and processes responsibly:

- Reduce the use of refrigerants in our cold storage equipment
- Use solvent-free, paint technology
- All of our high-performance refrigerators and freezers are manufactured in a zero waste to landfill facility
- Fluorescent lighting in our refrigerators replaced with mercury-free, LED lights

Microprocessor-Based Controller

simplifies operation, improves reliability



Our bright, easy to read display lets you know at-a-glance if your unit is running within range. Visual and audio alarms are designed to alert you in the event of a problem. Immediate access to high and low temperature parameters with the press of a button.

Touchpad Scan

Changes main display; also used to access various programming and service functions (alarm mute, recall 6 minutes).

Digital Display

Indicates cabinet temperature during normal operation, flashes during alarm condition or setpoint adjustment. Displays other values with touchpad sequence.

Service Parameters

Touchpad sequence allows override access to control function defaults for troubleshooting functions.

Chromatography Refrigerators



Our **Forma high-performance chromatography refrigerators** are designed for a variety of applications requiring close temperature control, full access to chromatography instrumentation, and easy set-up of instrumentation and apparatus within the chamber.

- Forced air circulation for uniform temperature at all shelf levels
- Heat-free defrost for maximum uniformity
- Two 2" (5 cm) access ports with insulated hinged covers
- Interior plug outlet (duplex on A and D models; single on V and W models)
- Four casters for easy mobility, front two are lockable
- Bright, LED interior lighting
- Adjustable, epoxy-coated wire shelves are standard (optional drawers)
- Keyed on/off switch with setpoint security
- Self-closing door with 90° stop (except FRCR4504 sliding glass door model)
- Built-in remote alarm contacts
- Optional 4-20 milliamp output



Thermo Scientific Forma High-Performance Chromatography Refrigerators

Temperature Range: +1°C to +8°C, factory preset to +4°C (auto defrost)

| Model No. | Cu. Ft. (L) | Voltage (Hz) | Certification | Plug | Door | Full Adjustable Shelves | Half Adjustable Shelves | Int. Dimensions* H x D x W inches (mm) | Ext. Dimensions* H x D x W inches (mm) | Ship Weight lb (kg) |
|------------------------|-------------|--------------|---------------|-----------|-----------------------|-------------------------|-------------------------|--|--|---------------------|
| FRCR2304A | 23.3 | 115 (60) | UL | NEMA 5-15 | single, glass | 0 | 2 | 58.0 x 29.0 x 24.0 | 79.2 x 36.4 x 28.0 | 425 |
| FRCR2304D | (659) | 208/230 (60) | UL | NEMA 6-15 | | | | (1473 x 737 x 610) | (2012 x 925 x 711) | (193) |
| FRCR2304V | | 230 (50) | CE | European | | | | | | |
| FRCR2304W [‡] | | 230 (50) | CE | U.K. | | | | | | |
| FRCR3004A | 29.2 | 115 (60) | UL | NEMA 5-15 | single, glass | 0 | 2 | 58.0 x 29.0 x 30.0 | 79.2 x 36.4 x 34.0 | 435 |
| FRCR3004D | (826) | 208/230 (60) | UL | NEMA 6-15 | | | | (1473 x 737 x 762) | (2012 x 925 x 864) | (197) |
| FRCR3004V | | 230 (50) | CE | European | | | | | | |
| FRCR3004W [‡] | | 230 (50) | CE | U.K. | | | | | | |
| FRCR4504A | 45.8 | 115 (60) | UL | NEMA 5-15 | double, sliding glass | 4 | 2 | 58.0 x 26.0 x 52.5 | 79.1 x 34.5 x 56.5 | 670 |
| FRCR4504D | (1297) | 208/230 (60) | UL | NEMA 6-15 | | | | (1473 x 660 x 1334) | (2010 x 838 x 1435) | (304) |
| FRCR4504V | | 230 (50) | CE | European | | | | | | |
| FRCR4504W [‡] | | 230 (50) | CE | U.K. | | | | | | |
| FRCR5004A | 51.1 | 115 (60) | UL | NEMA 5-15 | double, glass | 4 | 2 | 58.0 x 29.0 x 52.5 | 79.2 x 36.4 x 56.5 | 580 |
| FRCR5004D | (1447) | 208/230 (60) | UL | NEMA 6-15 | | | | (1473 x 737 x 1334) | (2012 x 925 x 1435) | (263) |
| FRCR5004V | | 230 (50) | CE | European | | | | | | |
| FRCR5004W [‡] | | 230 (W) | CE | U.K. | | | | | | |
| FRCR7504A | 78.8 | 115 (60) | UL | NEMA 5-15 | triple, glass | 8 | 2 | 58.0 x 29.0 x 81.0 | 79.2 x 36.4 x 85.0 | 965 |
| FRCR7504D | (2231) | 208/230 (60) | UL | NEMA 6-15 | | | | (1473 x 737 x 2057) | (2012 x 925 x 2159) | (438) |
| FRCR7504V | | 230 (50) | CE | European | | | | | | |
| FRCR7504W | | 230 (W) | CE | U.K. | | | | | | |

* Published interior volumes are nominal; useable cu. ft. (L) capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

[‡] Note for Australia and New Zealand: Due to the units having two power cords (one for unit, one for internal receptacle), units are supplied with 15A power cords.



Wolflabs

Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax: 01759 301143

sales@wolflabs.co.uk



Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

