



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

**ThermoFisher**  
SCIENTIFIC

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

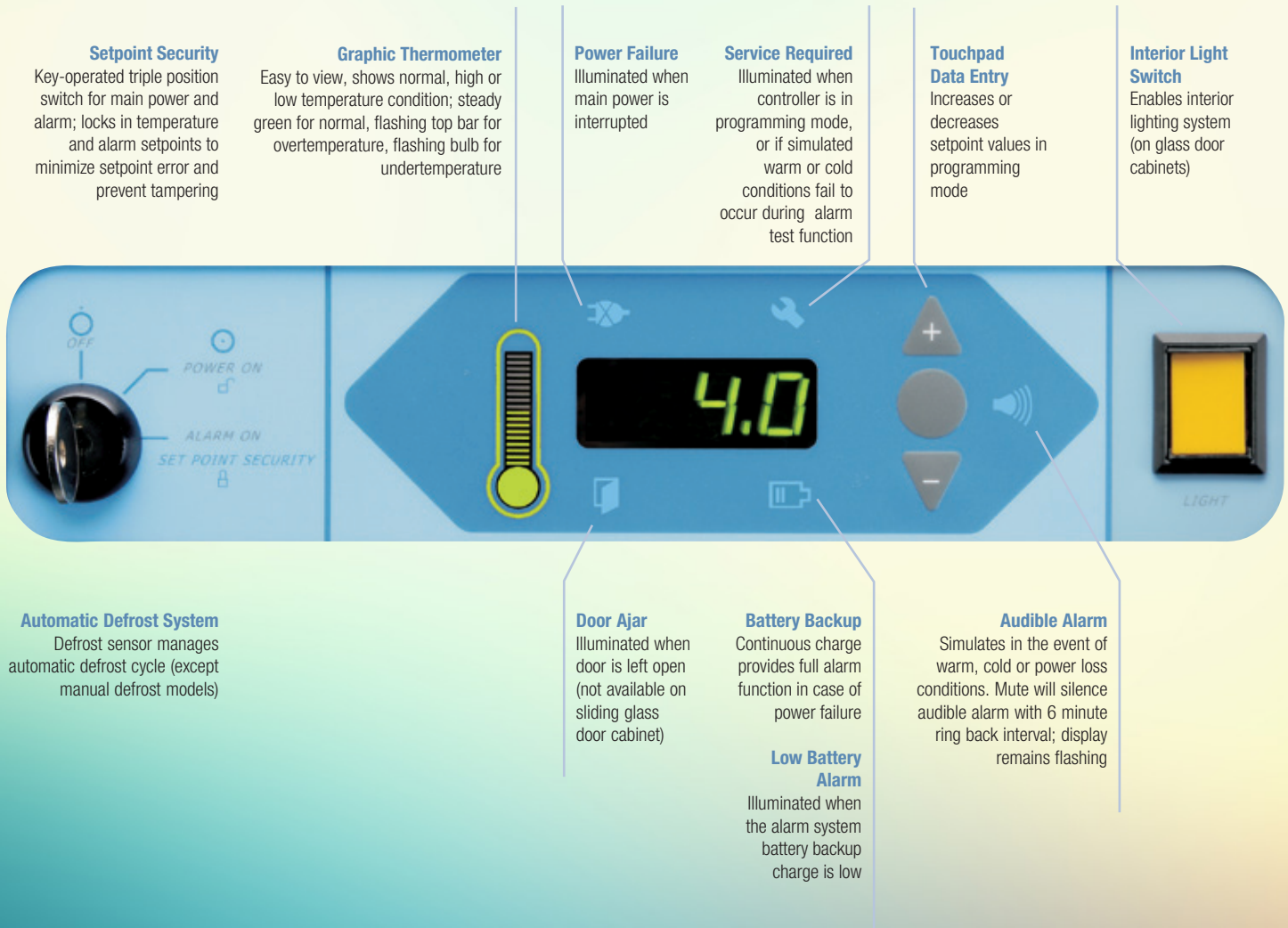
Temperature variation can have an impact on the viability of samples and the efficacy of reagents. These variations can shorten product shelf life, degrade enzymes and reduce vaccine effectiveness. Therefore, it's important to choose a high-performance refrigerator or freezer that has been designed for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

<sup>‡</sup> 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.

## Options for High-Performance Refrigerators Ordering Guide

For use with refrigerator size →	4.9 cu. ft. (133 L)	11.5 cu. ft. (326 L)	23.3 cu. ft. (659 L)	29.2 cu. ft. (826 L)	45.8 cu. ft. (1297 L)	51.1 cu. ft. (1447 L)	78.8 cu. ft. (2231 L)
<b>Door options (factory-installed)</b>	<b>Model No.</b>	<b>Model No.</b>	<b>Model No.</b>	<b>Model No.</b>	<b>Model No.</b>	<b>Model No.</b>	<b>Model No.</b>
Left hand swing, solid door	7119	6995	6997	6999			
Left hand swing, glass door	7123	6996	6998	7000			
Left hand swing, heated glass door		7073	7075	7087			
Right hand swing, glass door	7118	7066	7012	7013			
Right hand swing, heated glass door		7074	7086	7088			
Double left hand swinging doors, solid						7001	
Double left hand swinging doors, glass						7067	
Double left hand swinging doors, heated glass						7089	
Double right hand swinging doors, solid						7068	
Double right hand swinging doors, glass						7069	
Double right hand swinging doors, heated glass						7090	
Double left and right hand swinging doors, solid						7019	
Double left and right hand swinging doors, glass						7014	
Double left and right hand swinging doors, heated glass						7091	
<b>6" 7-day inkless chart recorders, -40°C to +25°C</b>	<b>Model no. (all sizes)</b>						
Free-standing, customer-installed, 115V, 60Hz models				6383-7A			
Free-standing, customer-installed, 208-230V, 60Hz models				6383-7D			
Free-standing, customer-installed, 230V, 50Hz models (EU)				6383-7V			
Free-standing, customer-installed, 230V, 50Hz models (UK)				6383-7W			
Factory-installed (all voltages)				6183-7			
Replacement chart paper, box of 50				6184			
<b>Surge suppressor (factory-installed)</b>							
115V, 60Hz models				6402-1			
208-230V, 60Hz models				6402-2			
230V, 50Hz models				6402-3			
<b>Remote alarm modules (factory-installed)</b>							
115V, 60Hz models				5612-1A			
208-230V, 60Hz models				5612-2D			
230V, 50Hz models				5612-3V			
<b>Alarm delay modules</b>							
Battery operated				6903			
<b>Digital temperature monitors</b>							
Single input channel, temperature range -100° to +25°C, set point resolution of 1°C, high temperature alarm only, numeric LCD display, red visual alarm, 8 ft. Teflon® lead wire, Velcro® mounting strap, 5" L x 2"D x 4.5"W (mm, 130 x 50 x 110), 120v, 60hz, with a 15amp dual prong plug (fits NEMA 5-15R)				6898			
<b>Deluxe electronic remote alarm</b>							
Requires a dedicated, analog phone line				6224TA			
<b>4-20 milliamp transmitters</b>							
Self-powered, factory-installed				7204			
Non-powered, factory-installed				6907-1			
Non-powered, customer-installed				6907-2			
<b>e-Lock adapter kits (does not include locks; single door models only)</b>							
CompX adapter, factory-installed			CXELAF				
CompX adapter, customer-installed			CXELAC				
Pyxis glass door adapter, factory-installed			PXELAGF				
Pyxis glass door adapter, customer-installed			PXELAGC				
Pyxis solid door adapter, factory-installed			PXELASF				
Pyxis solid door adapter, customer-installed			PXELASC				
Omniceil glass door adapter, factory-installed			OMELAGF				
Omniceil glass door adapter, customer-installed			OMELAGC				
Omniceil solid door adapter, factory-installed			OMELASF				
Omniceil solid door adapter, customer-installed			OMELASC				
McKesson glass door adapter, factory-installed			MKELAGF				
McKesson glass door adapter, customer-installed			MKELAGC				
McKesson solid door adapter, factory-installed			MKELASF				
McKesson solid door adapter, customer-installed			MKELASC				
<b>Stainless steel interior (factory-installed)</b>							
Stainless steel interior finish	7116	6199-3A	6115	6709	6711	6116	6117
<b>5°C setpoint (factory-installed)</b>							
Not available for blood bank or chromatography models			7508TA			7508TA	



**Wolflabs**

# Wolf Laboratories Limited

[www.wolflabs.co.uk](http://www.wolflabs.co.uk)

Tel: 01759 301142

Fax: 01759 301143

[sales@wolflabs.co.uk](mailto: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.

