



**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:

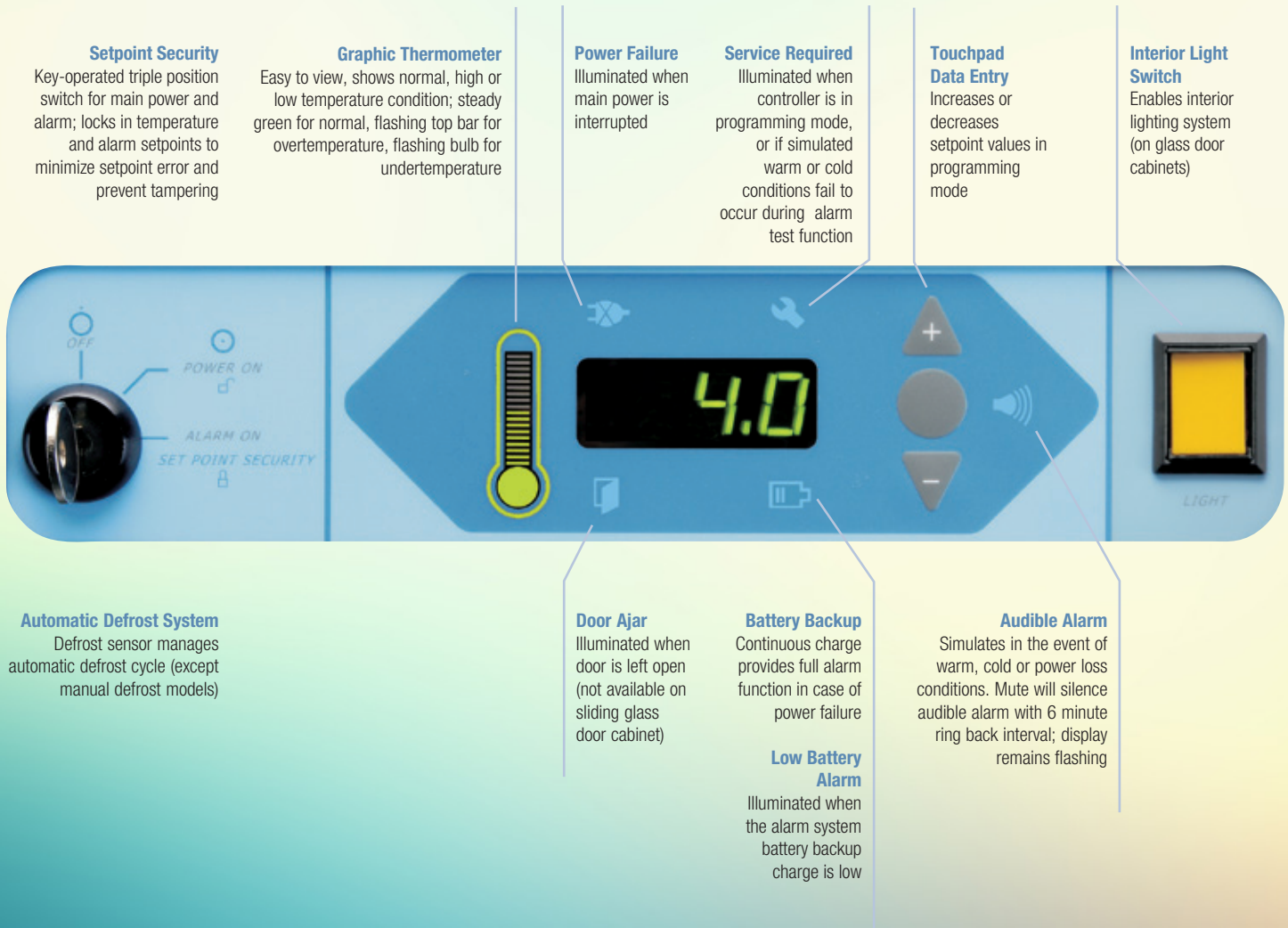
Temperature variation can have an impact on the viability of samples and the efficacy of reagents. These variations can shorten product shelf life, degrade enzymes and reduce vaccine effectiveness. Therefore, it's important to choose a high-performance refrigerator or freezer that has been designed for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



Biologics

Diagnostic
Kits &
Reagents

Industrial
Testing

Molecular
Biology

Vaccines
& Pharma

Clinical
Applications

Laboratory Refrigerators

Our Forma **high-performance, laboratory refrigerators** are available in a wide range of cabinet sizes to fit a variety of storage requirements and laboratory footprints.

Would you like to customize your glass door refrigerator?

See page 17 for options and accessories.

- **Forced air circulation for uniform temperature at all shelf levels**
- **Heat-free defrost for maximum uniformity**
- **Choice of glass or solid doors**
- **Four casters, for easy mobility; the front two are lockable**
- **1" (2.5cm) insulated access port**
- **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 to assist with inventory loads (except sliding glass door REL4504 model)**
- **Built-in remote alarm contacts**
- **Optional +5°C setpoint can be customized for users validating lab refrigerators in the +2 to +8°C setpoint (not available on 45 cu. ft. sliding door or 78 cu. ft. trip door models; order option 7508TA with your lab refrigerator)**

Thermo Scientific Forma High-Performance Laboratory Refrigerators With Glass Doors

Temperature Range: +1°C to +8°C, factory preset to +4°C (auto defrost) Optional +5°C setpoint available (order option 7508TA)

Model No.	Cu. Ft. (L)	Voltage (Hz)	Certification	Plug	Cabinet	Door	Adjustable Shelves	Int. Dimensions* H x D x W inches (mm)	Ext. Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
FRGG404A	4.9	115 (60)	UL	NEMA 5-15	undercounter	single	3	20.0 x 20.5 x 20.0	33.4 x 26.0 x 24.0	220
FRGG404D	(133)	208/230 (60)	UL	NEMA 6-15				(508 x 521 x 508)	(850 x 660 x 610)	(100)
FRGG404V		230 (50)	CE	European						
FRGG404W‡		230 (50)	CE	U.K.					Exterior height before caster installation.	
FRGG1204A	11.5	115 (60)	UL	NEMA 5-15	space saver	single	4	52.4 x 21.75 x 20.0	73.6 x 29.4 x 24.0	280
FRGG1204D	(326)	208/230 (60)	UL	NEMA 6-15				(1331 x 553 x 508)	(1869 x 748 x 610)	(127)
FRGG1204V		230 (50)	CE	European						
FRGG1204W‡		230 (50)	CE	U.K.						
FRGG2304A	23.3	115 (60)	UL	NEMA 5-15	upright	single	4	58.0 x 29.0 x 24.0	79.2 x 37.2 x 28.0	370
FRGG2304D	(659)	208/230 (60)	UL	NEMA 6-15				(1473 x 737 x 610)	(2012 x 945 x 711)	(168)
FRGG2304V		230 (50)	CE	European						
FRGG2304W‡		230 (50)	CE	U.K.						
FRGG3004A	29.2	115 (60)	UL	NEMA 5-15	upright	single	4	58.0 x 29.0 x 30.0	79.2 x 37.2 x 34.0	435
FRGG3004D	(826)	208/230 (60)	UL	NEMA 6-15				(1473 x 737 x 762)	(2012 x 945 x 864)	(197)
FRGG3004V		230 (50)	CE	European						
FRGG3004W‡		230 (50)	CE	U.K.						
FRGG4504A	45.8	115 (60)	UL	NEMA 5-15	upright	double	8	58.0 x 26.0 x 52.5	79.1 x 34.5 x 56.5	670
FRGG4504D	(1297)	208/230 (60)	UL	NEMA 6-15		sliding		(1473 x 660 x 1334)	(2010 x 876 x 1435)	(304)
FRGG4504V		230 (50)	CE	European						
FRGG4504W‡		230 (50)	CE	U.K.						
FRGG5004A	51.1	115 (60)	UL	NEMA 5-15	upright	double	8	58.0 x 29.0 x 52.5	79.2 x 37.2 x 56.5	585
FRGG5004D	(1447)	208/230 (60)	UL	NEMA 6-15				(1473 x 737 x 1334)	(2012 x 945 x 1435)	(265)
FRGG5004V		230 (50)	CE	European						
FRGG5004W‡		230 (50)	CE	U.K.						
FRGG7504A	78.8	115 (60)	UL	NEMA 5-15	upright	triple	12	58.0 x 29.0 x 81.0	79.2 x 37.2 x 85.0	805
FRGG7504D	(2231)	208/230 (60)	UL	NEMA 6-15				(1473 x 737 x 2057)	(2012 x 945 x 2159)	(365)
FRGG7504V		230 (50)	CE	European						
FRGG7504W		230 (50)	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. 4.7 cu. ft. exterior dimensions are without casters.

‡ Due to differences in building wiring regulations in Australia and New Zealand, the current draw for the W-voltage units rated less than 10A may utilize a 10A circuit breaker. This rating only applies to Australia and New Zealand. Confirm the amperage rating on the data plate. Contact your local sales representative for more information.



Optional, inkless, seven day, graphic, chart recorder

Control Panel:

Keyed on/off switch with set point security

Microprocessor control system with audio and visual alarms

Bright, digital temperature display

Doors:

Spring-loaded, self closing doors with 90° stay-open feature

Lockable doors for added sample security

Cabinets shown: 23.3 cu. ft. single door (RGL2304) lab refrigerator with glass door and 51.1 cu. ft. double door (RGL5004) lab refrigerator with solid doors

Thermo Scientific Forma Laboratory Refrigerators With Solid Doors

Temperature Range: +1°C to +8°C, factory preset to +4°C (auto defrost) Optional +5°C setpoint available (order option 7508TA)

Model No.	Cu. Ft. (L)	Voltage (Hz)	Certification	Plug	Cabinet	Door	Adjustable Shelves	Int. Dimensions* H x D x W inches (mm)	Ext. Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
FRGL404A	4.9	115 (60)	UL	NEMA 5-15	undercounter	single	3	20.0 x 20.5 x 20.0	33.4 x 26.0 x 24.0	220
FRGL404D	(133)	208/230 (60)	UL	NEMA 6-15				(508 x 521 x 508)	(850 x 660 x 610)	(100)
FRGL404V		230 (50)	CE	European						
FRGL404W‡		230 (50)	CE	U.K.						
Exterior height before caster installation.										
FRGL1204A	11.5	115 (60)	UL	NEMA 5-15	space saver	single	4	52.4 x 21.75 x 20.0	73.6 x 29.4 x 24.0	280
FRGL1204D	(326)	208/230 (60)	UL	NEMA 6-15				(1331 x 553 x 508)	(1869 x 748 x 610)	(127)
FRGL1204V		230 (50)	CE	European						
FRGL1204W‡		230 (50)	CE	U.K.						
FRGL2304A	23.3	115 (60)	UL	NEMA 5-15	upright	single	4	58.0 x 29.0 x 24.0	79.2 x 37.2 x 28.0	370
FRGL2304D	(659)	208/230 (60)	UL	NEMA 6-15				(1473 x 737 x 610)	(2012 x 945 x 711)	(168)
FRGL2304V		230 (50)	CE	European						
FRGL2304W‡		230 (50)	CE	U.K.						
FRGL3004A	29.2	115 (60)	UL	NEMA 5-15	upright	single	4	58.0 x 29.0 x 30.0	79.2 x 37.2 x 34.0	435
FRGL3004D	(826)	208/230 (60)	UL	NEMA 6-15				(1473 x 737 x 762)	(2012 x 945 x 864)	(197)
FRGL3004V		230 (50)	CE	European						
FRGL3004W‡		230 (50)	CE	U.K.						
FRGL5004A	51.1	115 (60)	UL	NEMA 5-15	upright	double	8	58.0 x 29.0 x 52.5	79.2 x 37.2 x 56.5	585
FRGL5004D	(1447)	208/230 (60)	UL	NEMA 6-15				(1473 x 737 x 1334)	(2012 x 945 x 1435)	(265)
FRGL5004V		230 (50)	CE	European						
FRGL5004W‡		230 (50)	CE	U.K.						
FRGL7504A	78.8	115 (60)	UL	NEMA 5-15	upright	triple	12	58.0 x 29.0 x 81.0	79.2 x 37.2 x 85.0	805
FRGL7504D	(2231)	208/230 (60)	UL	NEMA 6-15				(1473 x 737 x 2057)	(2012 x 945 x 2159)	(365)
FRGL7504V		230 (50)	CE	European						
FRGL7504W		230 (50)	CE	U.K.						

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‡ Due to differences in building wiring regulations in Australia and New Zealand, the current draw for the W-voltage units rated less than 10A may utilize a 10A circuit breaker. This rating only applies to Australia and New Zealand. Confirm the amperage rating on the data plate. Contact your local sales representative for more information.

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)
Door options (factory-installed)	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
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	
6" 7-day inkless chart recorders, -40°C to +25°C				Model no. (all sizes)			
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			
Surge suppressor (factory-installed)							
115V, 60Hz models				6402-1			
208-230V, 60Hz models				6402-2			
230V, 50Hz models				6402-3			
Remote alarm modules (factory-installed)							
115V, 60Hz models				5612-1A			
208-230V, 60Hz models				5612-2D			
230V, 50Hz models				5612-3V			
Alarm delay modules							
Battery operated				6903			
Digital temperature monitors							
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			
Deluxe electronic remote alarm							
Requires a dedicated, analog phone line				6224TA			
4-20 milliamp transmitters							
Self-powered, factory-installed				7204			
Non-powered, factory-installed				6907-1			
Non-powered, customer-installed				6907-2			
e-Lock adapter kits (does not include locks; single door models only)							
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				
Stainless steel interior (factory-installed)							
Stainless steel interior finish	7116	6199-3A	6115	6709	6711	6116	6117
5°C setpoint (factory-installed)							
Not available for blood bank or chromatography models			7508TA			7508TA	



WolfLabs

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.

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Please contact us if this literature doesn't answer all your questions.