

Thermo Scientific Forma® High Performance Laboratory Refrigerators

Ultimate protection for critical samples and materials



Our high performance laboratory refrigerators meet a variety of space and capacity requirements for sample storage at temperatures between +1°C and +8°C. With capacities from 29.2 to 78.8 cu. ft., these advanced models are engineered to provide the dependable, trouble-free operation and secure environment that critical applications and materials demand.

• **Safe, Worry-free Storage:**

advanced thermo microprocessor control system

• **Robust Design:**

quality, long-life cabinets; interiors and exteriors are finished with a high-impact powder paint coating

• **Temperature Uniformity:**

forced-air circulation maintains temperature uniformity at all shelf levels

• **Dependability:** heavy duty, hermetically-sealed compressors ensure years of service life

Sample Protection

- High-density, CFC-free insulation protects against ambient temperature variations and minimizes running costs
- Setpoint security with key-operated, triple-position master switch that controls power to all systems for added safety
- Audible/visual alarms for power failures and high/low temperature, with visual indicators for critical functions
- Battery back-up and remote alarm connections

Intuitive Controls

- Sophisticated microprocessor control system ensures safe sample storage
- Easy-to-use controls with visual displays
- Alarm silence, ringback and automatic reset functions

Temperature Stability

- Adjustable temperatures from +1°C to +8°C (factory pre-set to +4°C)
- Closed-cell gasket provides a positive door seal to maintain interior temperature
- Directed air flow for rapid temperature recovery after door openings

User-Friendly

- Full-length door handles for effortless door openings and closings
- Illuminated interiors with door-activated on/off switch and independent switch on control panel
- Self-closing doors with door lock provision
- Painted open-wire shelves are adjustable in 1" increments

Thermo Scientific Forma High Performance Laboratory Refrigerators

Reliability and Performance

Our refrigeration technology ensures outstanding temperature performance across a range of environmental conditions.

- Powerful, industrial-grade compressors for optimal product protection and fast temperature recovery
- Automatic defrost function maintains optimum cooling capacity
- Automatic condensate removal (no drain lines required)

Custom Solutions

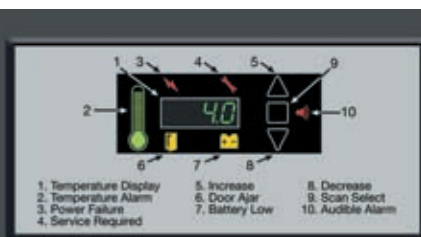
Options and accessories enable our Forma general-purpose laboratory refrigerators to be configured to meet your specific storage needs.

- Low voltage booster (free standing)
- 6", 7-day circular temperature chart recorder (built-in)
- 2" media/probe port, with cover
- Stainless steel interiors and exteriors
- 2" casters
- Extra shelves
- Full-view, double-pane glass doors

Illuminated interiors to improve visibility

Adjustable shelves make inventory management more efficient

Casters are optional



The easy to use microprocessor control system provides state-of-the-art alarm and monitoring functionality for safe, reliable storage.

Specifications and Ordering Information

General Purpose Lab Refrigerators, Auto Defrost, Temperature Range +1 °C to +8 °C, Factory Set +4 °C

Cat. No.	Volume cu.ft. (Liters)	Voltage/Hz	Amps Breaker (Plug)	Cabinet	Door Lock	Shelves Supplied	Interior Dimensions* H x W x D, inches (mm)	Exterior Dimensions* H x W x D, inches (mm)	Ship Weight lbs (kg)	Power KW-h/day	Heat Dissipation BTU/h
FRGL3004	29 (826)	115 (60) 208/230 (60)	8.0/15 (P1) 6.0/15 (P4)	upright	standard	4	58.0 x 30.0 x 29.0 (1470 x 760 x 730)	77.5 x 34.0 x 35.5 (1970 x 870 x 910)	435 (197)	9.1	1300
FRGL5004	51 (1447)	115 (60) 208/230 (60)	15.0/20 (P2) 8.5/15 (P4)	upright	standard	8	58.0 x 52.0 x 29.0 (1470 x 1320 x 730)	77.5 x 56.5 x 35.5 (1970 x 1440 x 910)	585 (265)	15.4	2192
FRGL7504	79 (2231)	115 (60) 208/230 (60)	16.0/20 (P2) 10.5/15 (P4)	upright	standard	12	58.0 x 81.0 x 29.0 (1470 x 730 x 2050)	77.5 x 85.0 x 35.5 (1970 x 2160 x 910)	805 (365)	13.9	1979

* Published interior volumes are nominal; useable cu.ft. (L) capacities may be offset by shelves, drawers, blower coils or cabinet protrusions. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences and frequency of door openings. Microprocessor control is standard with all above models.

Plug Guide

Model Code	Plug	Required Receptacle	NEMA Plug	Receptacle	Model Code	Plug	Required Receptacle	NEMA Plug	Receptacle
P1			5-15P	5-15R	P4			6-15P	6-15R
P2			5-20P	5-20R					

North America: USA/Canada +1 866 984 3766

Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, Finland +358 9 329 100, France +33 2 2803 2000, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 95059 1, Netherlands +31 76 571 4440, Russia/CIS +7 (812) 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203

Asia: China +86 21 6865 4588 or +86 10 5850 3588, India +91 22 5542 9494, Japan +81 45 453 9220, Other Asian countries +852 2885 4613

Countries not listed: +49 6184 90 6940 or +33 2 2803 2000

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