

# Thermo Scientific Forma<sup>®</sup> Value Laboratory Refrigerators and Freezers

Cost-effective solutions for non-critical storage



Our cold storage products span refrigerators, freezers and refrigerator/freezer combination units to provide versatile, cost-effective storage for non-critical laboratory applications.

- **Easy Cleaning:** Rugged, white acrylic exteriors; seamless, easy-to-clean interiors
- **Economical:** Foam-in-place insulation ensures consistent performance and low operating costs
- **Environmentally-friendly:** CFC-free refrigerants and insulation

#### Capacity

- Refrigerator capacities from 7 to 43 cu. ft.
- Freezer capacities from 5 to 30 cu. ft.

#### Selection

- Combination, undercounter, single and double-door models

#### Adjustable Temperature Control

- Refrigerator temperature range +2°C to +8°C or +2°C to +10°C (factory pre-set to +4°C)
- Freezer temperature range -12°C to -20°C (factory pre-set to -20°C)

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# Thermo Scientific Forma Value Laboratory Refrigerators and Freezers

Forma Value refrigerators, freezers and combination units meet a wide range of temperature, space and capacity requirements for non-critical sample storage.



## Specifications and Ordering Information

### Forma Value Laboratory Refrigerators

Factory preset +4°C

Cat. No.	Volume cu.ft. (Liters)	Voltage/Hz	Temperature Range	Shelves Supplied	Door Lock	Interior Dimensions H x W x D, inches (mm)	Exterior Dimensions H x W x D, inches (mm)	Ship Weight lbs (kg)	Noise Level (dBA)	Heat Dissipation (BTU/h)
FRLR065A	7 (184)	115/60/1 phase	+2°C to +10°C	3	standard	27 x 21 x 18 (686 x 521 x 458)	34 x 24 x 24 (867 x 610 x 605)	116 (52)	35	204
FRLR1611A	15 (411)	115/60/1 phase	+2°C to +10°C	3	standard	52 x 27 x 18 (1308 x 686 x 457)	65 x 32 x 28 (1656 x 813 x 711)	235 (107)	45	295
FRLR2111A	21 (586)	115/60/1 phase	+2°C to +10°C	4	standard	57 x 27 x 24 (1448 x 686 x 597)	70 x 32 x 30 (1783 X 813 x 769)	250 (113)	45	295
FRLR294A	29 (827)	115/60/1 phase	+2°C to +10°C	4	standard	65 x 32 x 26 (1654 x 813 x 660)	76 x 35 x 34 (1935 x 889 x 861)	350 (159)	45	903
FRLR314A	31 (881)	115/60/1 phase	+2°C to +10°C	4	none	63 x 32 x 24 (1607 x 813 x 610)	76 x 36 x 32 (1937 x 923 x 806)	350 (159)	45	1138
FRLR4304A	43 (1218)	115/60/1 phase	+2°C to +10°C	8	none	57 x 49 x 27 (1448 x 1245 x 673)	76 x 53 x 32 (1930 x 1346 x 813)	645 (293)	73	2355

### Forma Value Laboratory Freezers

Factory preset -20°C

Cat. No.	Volume cu.ft. (Liters)	Voltage/Hz	Temperature Range	Shelves Supplied	Door Lock	Interior Dimensions H x W x D, inches (mm)	Exterior Dimensions H x W x D, inches (mm)	Ship Weight lbs (kg)	Noise Level (dBA)	Heat Dissipation (BTU/h)
FREF417A	5 (141)	115/60/1 phase	-12°C to -20°C	2	none	29 x 19 x 20 (737 x 476 x 495)	34 x 21 x 27 (851 x 540 x 673)	84 (38)	28	–
FREF065A	7 (184)	115/60/1 phase	-12°C to -20°C	3	standard	27 x 21 x 18 (686 x 521 x 458)	34 x 24 x 24 (867 x 610 x 605)	123 (56)	28	221
FREF1617A	17 (490)	115/60/1 phase	-12°C to -20°C	3	standard	52 x 27 x 22 (1308 x 686 x 546)	65 x 32 x 28 (1656 x 813 x 711)	235 (107)	45	412
FREF2117A	21 (586)	115/60/1 phase	-12°C to -20°C	4	standard	57 x 27 x 24 (1448 x 686 x 597)	70 x 32 x 30 (1783 x 813 x 768)	250 (114)	45	412
FRLF2918A	30 (861)	115/60/1 phase	-12°C to -20°C	4	standard	64 x 32 x 26 (1613 x 813 x 660)	76 x 36 x 34 (1918 x 902 x 863)	350 (159)	45	1978

### Forma Value Laboratory Refrigerator/Freezer Combinations

Factory preset +4°C (Refrigerator), Factory preset -20°C (Freezer)

Cat. No.	Volume cu.ft. (Liters)	Voltage/Hz	Temperature Range	Shelves Supplied	Door Lock	Interior Dimensions H x W x D, inches (mm)	Exterior Dimensions H x W x D, inches (mm)	Ship Weight lbs (kg)	Noise Level (dBA)	Heat Dissipation (BTU/h)
FRCRF192A	19 (522)	115/60/1 phase	+2°C to +10°C/ -12°C to -20°C	3	none	39 x 26 x 24 (991 x 660 x 610) <sup>1</sup> 17 x 25 x 22 (438 x 641 x 552) <sup>2</sup>	67 x 30 x 31 (1708 x 753 x 784)	225 (102)	35	605
FRCRF252A	25 (697)	115/60/1 phase	+1°C to +7°C/ -14°C to -21°C	6	none	38 x 32 x 25 (960 x 813 x 622) <sup>1</sup> 19 x 31 x 21 (476 x 787 x 521) <sup>2</sup>	69 x 36 x 34 (1742 x 914 x 854)	142 (64)	45	605

<sup>1</sup> Refrigerator compartment, <sup>2</sup> Freezer compartment

Specified interior volumes are nominal, and usable capacities may be offset by shelves, drawers, blower coils or cabinet protrusions.

Refrigerator and/or freezer performance may be affected by ambient temperature and humidity conditions, sample loading preferences, and frequency of door openings.

## Plug Guide

Model Code	Plug	Required Receptacle	NEMA Plug	Receptacle
P1			5-15P	5-15R

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 6885 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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