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Fisherbrand Isotemp –86°C to –50°C Ultra-Low Temperature Freezers

Fisherbrand™ Isotemp™ Ultra-Low Temperature Freezers combine reliability and performance with cost-effective operation and innovative features. They are built using advanced technology, refrigeration, and microprocessor controls and with rigorous and robust construction methods.

Exceptional temperature performance: Minimal peak temperature variation* and rapid door-open recovery

More comfortable lab environment: Low noise levels—like your refrigerator at home**

Operational efficiency: Lower energy consumption and HVAC costs

Environmentally friendly: Water-blown foam insulation, EPA SNAP/ EU F-Gas regulation compliant, and ENERGY STAR™ certified

Isotemp freezers offer the convenience you need for your ultra-low temperature storage:

- Single-handed door operation
- Five inner compartments (with doors)
- Large temperature display with touch control
- Centralized settings and controls with battery backup
- Warnings and cautions, security passcode, and padlock-compatible doors
- Easy access to the filter/grill assembly for simplified cleaning and maintenance

Additional features:

- Standard RS-485, 4-20mA analog outputs and dry contacts included
- Battery backup for control panel (power interruptions)
- No setup required

Catalog Number: 30243886

* Typical freezer data based on internal testing with freezer setpoint at –80°C and ambient temperature at 24°C. Performance data varies across freezer size and electrical specifications.

** All data based on internal data unless otherwise noted. Data on file.

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Bold, easy-to-read temperature display shows real-time cabinet temperature

Audible and visual alarms (System, Door, and Temperature Visual Alarm Icons)

USB connectivity enables advanced data logging and monitoring*

Health Shield Indicator provides quick, visual freezer status

Alarm Snooze Button silences audible alarms

-80°C

Actual

Setpoint

Warm Warning

Cold Warning

Offset

Passcode

ENERGY STAR

Passcode allows you to set a three-digit numeric code required for any settings changes

Settings Menu Button accesses alarm and system settings (Warm Alarm, Cold Alarm, Offset, Setpoint Security, and Backup System), if installed

Capacitive touchscreen buttons adjust and save freezer settings

*USB front door access is included with Isotemp ISO models only.

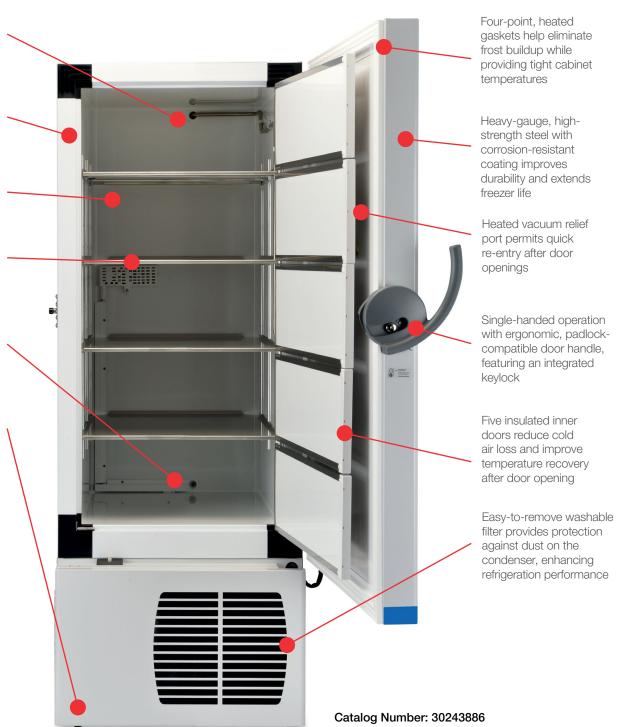25mm access port (top) supports use of independent probes

High-density, water-blown polyurethane foam construction with vacuum insulation panel

Painted galvanneal interior

Sturdy, stainless-steel shelving

25mm access port (bottom) supports use of independent probes

50mm locking casters roll smoothly and easily to simplify installation and mobility

Four-point, heated gaskets help eliminate frost buildup while providing tight cabinet temperatures

Heavy-gauge, high-strength steel with corrosion-resistant coating improves durability and extends freezer life

Heated vacuum relief port permits quick re-entry after door openings

Single-handed operation with ergonomic, padlock-compatible door handle, featuring an integrated keylock

Five insulated inner doors reduce cold air loss and improve temperature recovery after door opening

Easy-to-remove washable filter provides protection against dust on the condenser, enhancing refrigeration performance

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You're Looking For	You'll Find
Temperature stability	Improved temperature recovery after door openings and more consistent temperature performance, even with high-heat loads
Flexible and precise temperature settings	Microprocessor with touch control
Less downtime and sample risk	Alarms with setpoint temperature controls and a recessed power switch to help avoid accidental shut off
Prompt alerts about operational problems	Onboard diagnostics with error codes that direct you to probable causes
Storage for high-load and non-standard samples (microplate hotels)	Reinforced stainless-steel shelves
More comfortable lab environment	Low noise levels and heat emissions
Economical operation	Lower power consumption and less HVAC support required
Longer equipment life	Hydrocarbon systems that improve operating conditions and help extend product life
Reduced ice buildup	Heated gaskets

Fisherbrand Isotemp Ultra-Low Temperature Freezers

Cat. No.	Amps/Breaker (Plug)	Capacity		Electrical	Max. Shelf Weight, kg	Exterior Dimension, H x W x D, cm	Shipping Weight, kg
		Liters	5 x 5 x 2 in. Cryoboxes				
ISO General Purpose							
30243886	8.9/4.9 (European)	549	400	230V/50Hz	75	198.1 x 71.9 x 94.5	312
30243884	8.9/4.9 (European)	682	500	230V/50Hz	93	198.1 x 86.4 x 94.5	340
30243885	8.9/4.9 (European)	816	600	230V/50Hz	111	198.1 x 100.6 x 94.5	378
IUE General Purpose							
17426432	5.9/10 (European)	422	300	230V/50Hz	57	198.1 x 58.4 x 97.8	323

General Purpose Models:

The general purpose –86°C freezers described here are high-performance units for professional use. These products are intended for use as cold storage in research and as a general purpose laboratory freezer, storing samples or inventory at operating temperatures between –80°C and –50°C. They are not considered to be medical devices and have therefore not been registered with a medical device regulatory body (e.g., FDA): that is, they have not been evaluated for the storage of samples for diagnostic use or for samples to be re-introduced to the body. These units are not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory.

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