Fisherbrand Isotemp -86°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 an advanced refrigeration technology platform, microprocessor controls and high-quality construction.

- **Maximum temperature recovery:** Reduced/low peak temperature variation[1] and fast open-door recovery

- **More comfortable lab environment:** Sound output of only 53dBA enables the units to be utilised in the lab

- **Operational efficiency:** Lower energy consumption and HVAC costs

- **Environmentally friendly:** Water-blown foam insulation and green hydrocarbon refrigerant systems compliant with EU F-Gas regulations

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

- Ergonomic single-handed door operation
- Five inner compartments (with doors)
- Large temperature display with touch control
- Centralised settings and controls with battery backup
- Alarms, security passcode and padlock-compatible doors
- Easy access to the filter/grill assembly (for cleaning and maintenance)
- Two years parts and labour warranty with an additional two years for compressor parts only

Additional features:

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

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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)

'Health Shield' indicator gives a quick visual indication of freezer status

Alarm 'snooze' button to silence audible alarms

-80°C
Actual
Setpoint

Warm Alarm   Cold Alarm   Offset   Setpoint Security

'Setpoint Security' allows you to set a three-digit numeric code required for any settings changes

Settings menu button to access alarm and system settings ('Warm Alarm', 'Cold Alarm', 'Offset', 'Setpoint Security' and 'Backup System'), if installed

Capacitive touchscreen buttons to easily adjust and save freezer settings

2.5cm access port (top) for use of independent probes

High-density water-blown polyurethane foam with Vacuum Insulation Panel (VIP)

Painted galvannealed interior

Sturdy, stainless steel shelving

2.5cm access port (bottom) for use of independent probes

5cm locking casters for easy roll installation and smooth mobility

Four-point, heated gaskets help to eliminate frost build-up while providing tight cabinet temperatures

Heavy gauge, high-strength steel with a corrosion-resistant coating for long-life durability

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

Single-hand 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, increasing refrigeration performance

You're Looking For	You'll Find
Temperature stability	Better temperature recovery after door opening; maintains temperatures even with high-heat loads
Flexible and precise temperature settings	Microprocessor with touch control
Less downtime and sample risk	Alarms with setpoint temperature controls; recessed power switch (to help avoid accidental shutoff)
Prompt alerts about operational problems	Onboard diagnostics: error codes 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, low heat emissions
Economical operation	Lower power consumption, less HVAC (Heating, Ventilation and Air Conditioning) support needed
Longer equipment life	Green hydrocarbon systems improve operating conditions increasing product life
Reduced ice build-up	Heated gaskets

Isotemp IUE Models	Capacity		Amps/Breaker (Plug)	Max. Shelf Weight, kg	Exterior Dimensions H x W* x D, cm	Shipping Weight, kg
Cat. No	Litres	Cryoboxes 13cm x 13cm x 5cm				
17426432	422	300	5.9/10 (European)	57	198.1 x 58.4 x 97.7	323
16647352	549	400	5.3/10 (European)	75	198.1 x 82.5 x 98.1	312
17436432	682	500	5.9/10 (European)	93	198.1 x 86.4 x 97.7*	333
16657352	816	600	6.1/10 (European)	111	198.1 x 111.1 x 98.1*	333

*For 16657352 and 17436432, doorway width clearance is 87.6cm

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 use and as a general purpose laboratory freezer for storing samples or inventory at operating temperatures between –50°C and –80°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 are they to be used for the storage of flammable inventory.

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