# Class II Medical Device Version Fisherbrand Isotemp -50°C to -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 technology platform, refrigeration, microprocessor controls, and high-quality construction.

- Maximum temperature recovery: Reduced/low peak temperature variation<sup>1</sup> and fast open-door recovery
- More comfortable lab environment: Low noise levels (like your refrigerator at home<sup>2</sup>)
- Operational efficiency: Lower energy consumption and HVAC costs
- Environmentally friendly: Water-blown foam insulation; compliant with EPA SNAP and EU F-Gas regulations

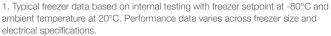
### Isotemp freezers offer the convenience you need for your ultra-low temperature storage:

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

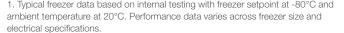
#### Additional features:

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





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







Optional factory-installed CO2 or LN2 backup system provides additional sample protection in the event of a power or mechanical failure

Setpoint Security allows you to set a 3-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





LN² backup system

• Chart recorder (ink or inkless)

You're Looking For	You'll Find			
Temperature stability	Better temperature recovery after door opening; maintains temperat 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			
Protection during power interruptions	Integrated LN <sup>2</sup> or CO <sup>2</sup> backup systems (optional)			
More comfortable lab environment	Low noise levels, heat emissions			
Economical operation	Lower power consumption, less HVAC support needed			
Longer equipment life	Green, hydrocarbon systems improve operating conditions increasing product life			
Reduce ice buildup	Heated gaskets			
Unit to store blood and blood products	FDA Class II Medical Device designed for storage of blood and blood products; see below for description of proper storage techniques			

IUE Models	Ca	pacity			Max.	Exterior	Shipping		
FDA Class II	cu. ft. (Liters)	5 x 5 x 2 in. Cryoboxes	Electrical Amps/Breaker (Plug)		Shelf Weight Ib. (kg)	Dimensions H x W* x D in (cm)	Weight lb. (kg)		
IUE30086LA	14.9 (422)		115V/60Hz	12.6/20 (NEMA 5-20)					
IUE30086LD		14.9 (422)	300	208-230V/60Hz	5.6/15 (NEMA 6-15)	125 (57)	78.0 x 27.1 x 38.6 (198.1 x 68.9 x 98.1)	712 (323)	
IUE30086LV			230V/50Hz	5.9/10 (European)		,	, ,		
IUE40086LA	19.4 (549)			115V/60Hz	13.0/20 (NEMA 5-20)				
IUE40086LD				400	208-230V/60Hz	5.9/15 (NEMA 6-15)	165 (75)	78.0 x 32.5 x 38.6 (198.1 x 82.5 x 98.1)	687 (312)
IUE40086LV				230V/50Hz	5.3/10 (European)				
IUE50086LA	24.1 (682)			115V/60Hz	12.5/20 (NEMA 5-20)				
IUE50086LD			500	208-230V/60Hz	5.0/15 (NEMA 6-15)	205 (93)	78.0 x 38.1 x 38.6* (198.1 x 96.8 x 98.1)	734 (333)	
IUE50086LV			230V/50Hz	5.9/10 (European)					
IUE60086LA	28.8 (816)				115V/60Hz	12.7/20 (NEMA 5-20)			
IUE60086LD		600	208-230V/60Hz	6.2/15 (NEMA 6-15)	245 (111)	78.0 x 43.7 x 38.6* (198.1 x 111.1 x 98.1)	734 (333)		
IUE60086FV	(010)		230V/50Hz	6.1/10 (European)					

<sup>\*</sup>For IUE50086 and IUE60086, doorway width clearance is 34.5 in. (87.6cm)



		Catalog Numbers				
Description	Installation	IUE30086	IUE40086	IUE50086	IUE60086	
	Factory	N/A	LN4567	LN4567	LN4567	
LN2 Backup System  • Maintains temperature down to -80oC  • Systems for IUE300 are stand-alone	Field	FLN300A* FLN300D* FLN300V* FLN300W*	FLN456LEA* FLN456LED* FLN456LEV*	FLN456LEA* FLN456LED* FLN456LEV*	FLN456LEA* FLN456LED* FLN456LEV*	
CO2 Backup System	Factory	N/A	CO4567	CO4567	CO4567	
Maintains temperature down to -67 C     Systems for IUE300 models are stand alone	Field	FCO300A* FCO300D* FCO300V* FCO300W*	FCO456LEA* FCO456LED* FCO456LEV*	FCO456LEA* FCO456LED* FCO456LEV*	FCO456LEA* FCO456LED* FCO456LEV*	
Chart Recorder (Inkless)	Factory	N/A	N/A	CRP4567	CRP4567	
<ul> <li>Diameter: 6 in. (15.2cm)</li> <li>Seven day</li> <li>Inkless</li> <li>Range -100°C to +38°C (+2oC resolution)</li> </ul>	Field	N/A	N/A	FCR500LE	FCR600LE	
Chart Recorder (Ink)	Factory	N/A	N/A	N/A	N/A	
<ul> <li>Diameter: 6 in. (15.2cm)</li> <li>Seven day</li> <li>Ink</li> <li>Range: -115° to +50°C, +5°C resolution</li> <li>Recorders for IUE300 and IUE400 models are stand alone</li> </ul>	Field	6383-6A* 6393-6D* 6383-6V* 6383-6W* 6383-D*	6383-6A* 6393-6D* 6383-6V* 6383-6W* 6383-D*	FCRP500LE	FCRP600LE	
NEMA L5-20P Twist Lock Plug	Factory	US125V20ATL	US125V20ATL	US125V20ATL	US125V20ATL	
for 115V/60Hz	Field	TL125V20A	TL125V20A	TL125V20A	TL125V20A	
NEMA L6-15P Twist Lock Plug	Factory	US230V15ATL	US230V15ATL	US230V15ATL	US230V15ATL	
for 208-230V/60Hz	Field	TL230V15A	TL230V15A	TL230V15A	TL230V15A	
NEMA L6-20P Twist Lock Plug	Factory	US230V20ATL	US230V20ATL	US230V20ATL	US230V20ATL	
for 208-230V/60Hz	Field	TL230V20A	TL230V20A	TL230V20A	TL230V20A	

<sup>\*</sup>A = 115V/60Hz (NEMA 5-20 plug), D = 208-230V/60Hz (NEMA 6-15 plug), V = 230V/50Hz (EU plug), W = 230V/50Hz (British plug)

#### **FDA Class II Models:**

The FDA Class II –86°C freezers described here are intended for the storage of blood and blood products. All materials stored in these products must be in sealed blood bags. Product must not be stored in open containers. These products are intended for storing samples or inventory at operating temperatures between –50°C and –80°C. These products should only be used by authorized and adequately trained personnel. They are considered to be medical devices and have therefore been registered with medical device regulatory body FDA and are considered a Class II medical device by the FDA. This product is classified as product code KSE, regulation number 864.9700 and is considered 510(K) exempt. 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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