

# The newest innovation in **cold storage sample preparation** and **rapid plasma freezing** is here

Introducing the new Thermo Scientific XBF -40°C Blast Freezer: a breakthrough sample preparation device for use prior to cold storage

It's **FAST!**


**Flexible Design:** The XBF40D accommodates staggered loads and a variety of vessels such as carboys, bottles, racks with vials and more. For rapid plasma freezing, the XBF40D-MD accommodates plasma bags, boxes and bottles.

**Accelerated Air Flow:** A large, forced-air circulation freezes the product – fast!

**Self-Contained Refrigeration System:** Unlike previous generation blast freezers, the XBF is a plug and play requiring no customized installation and no remote compressors.

**Trusted:** All XBF freezers are manufactured with pride with high-quality materials and high-performance technology.

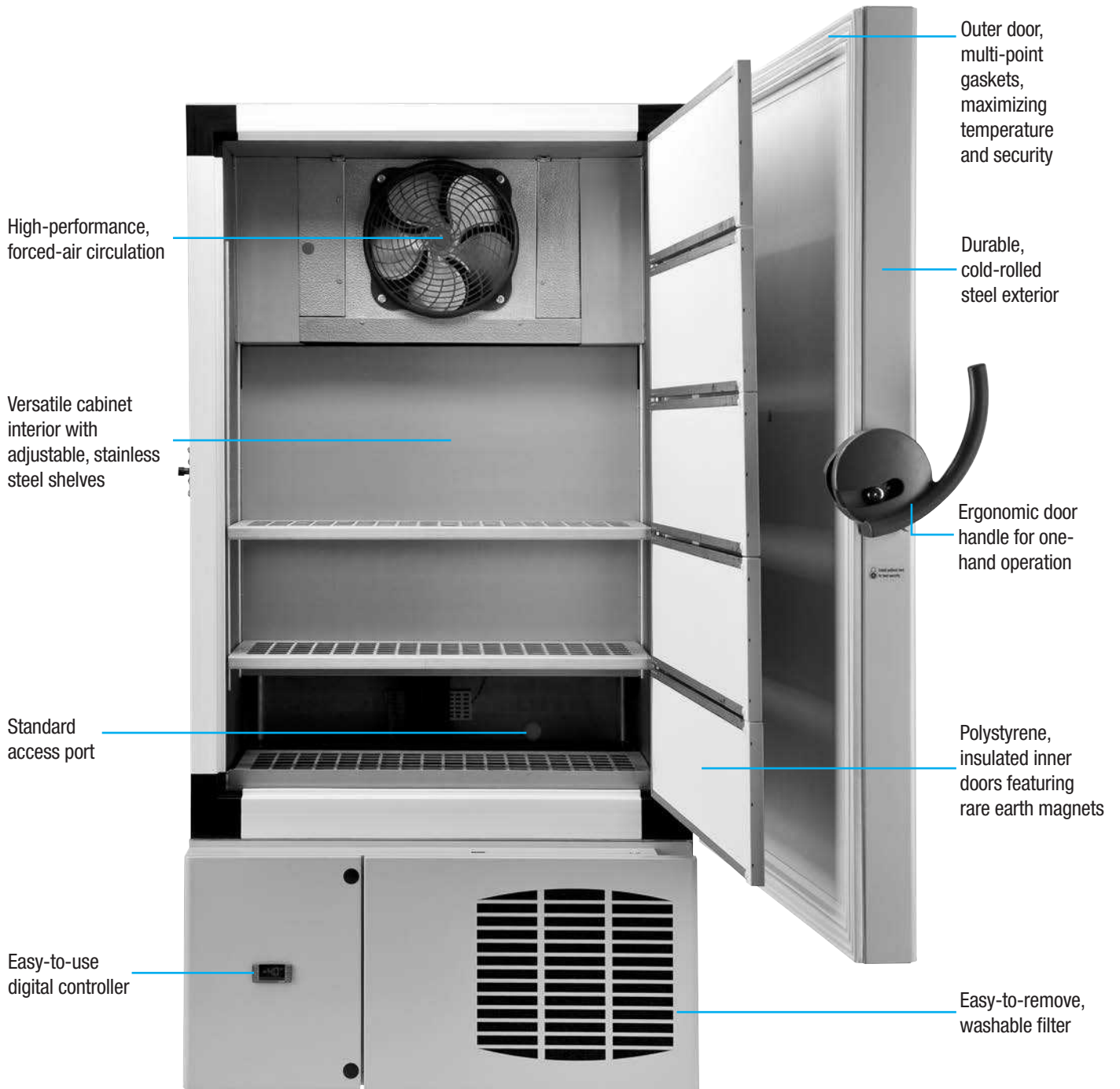




### Your freezer is not a sample preparation device

Ultra-low and laboratory-grade freezers are designed to maintain samples at cold temperatures for long-term storage. They are not designed for, and do not have the speed or refrigeration capacity to rapidly freeze plasma and other critical storage. Using the new XBF40 series of blast freezers for rapid cooling reduces the stress on your sample storage freezer, and freezes your samples quickly and efficiently.

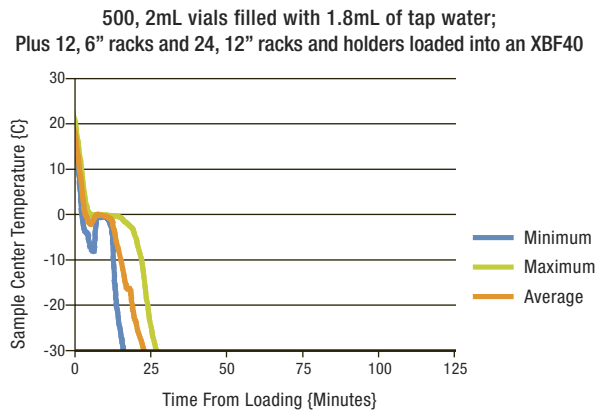
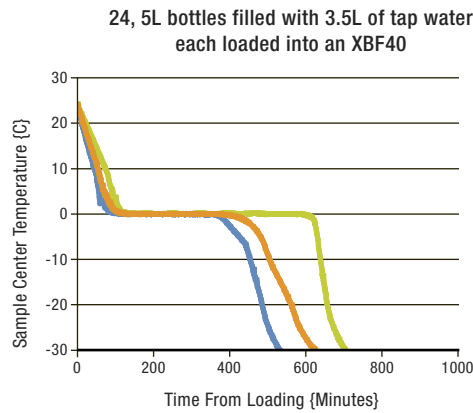
# Features and benefits



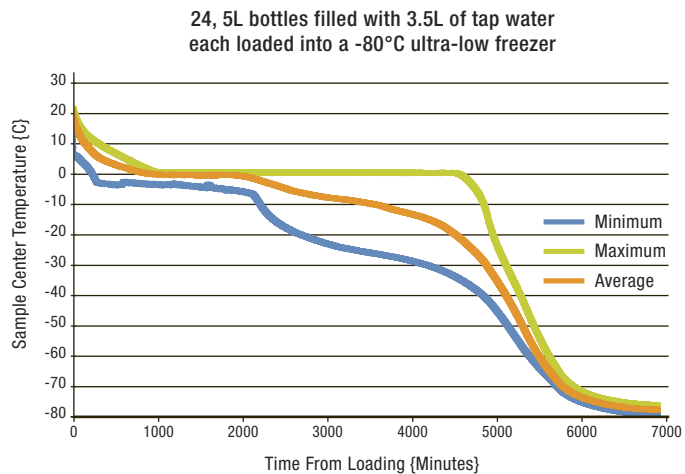
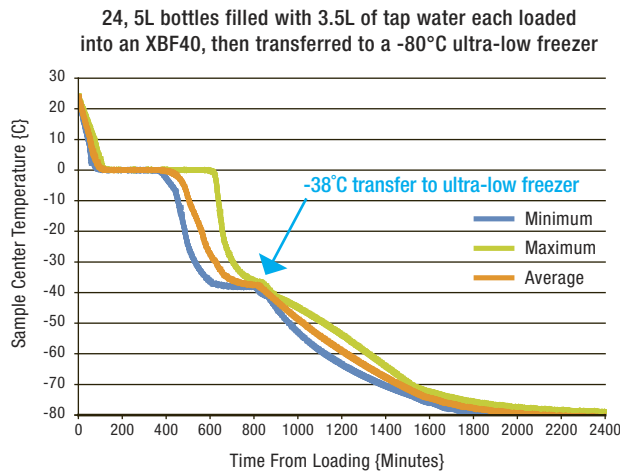
# The XBF40D: Prepare product for storage in a fraction of the time

These examples show how much time you can save by using the XBF40D to bring any critical sample, or volume, to storage temperatures.

As shown below, a test of 5L bottles filled with 3.5L of tap water reached 0°C on average of 100 minutes and -30°C on average of 600 minutes. A grouping of 2mL vials reached 0°C in 5 minutes and -30°C in 25 minutes.\*



In a test comparing freezing times between the XBF40D and a -80°C ultra-low freezer, a group of 5L bottles on average reached -70°C in the XBF40D 75% faster than an ultra-low freezer.

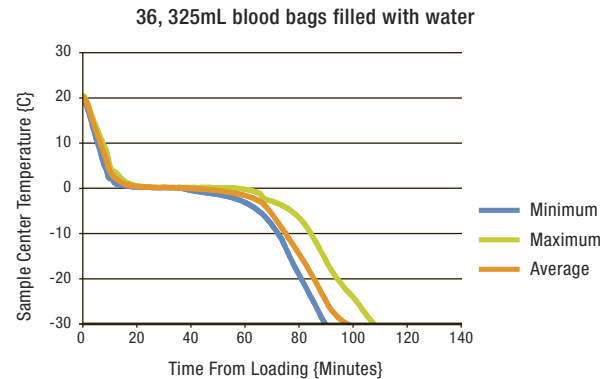


\* Internal performance data, data on file. Testing involved a Thermo Scientific XBF40D Blast Freezer and a Thermo Scientific 600 box capacity -80°C freezer. August 2014.

# The XBF40D-MD: Get plasma ready for storage in a fraction of the time

- Meets AABB guidelines for rapidly freezing plasma prior to long-term storage
- FDA listed, Class II medical device (product code – KSE)
- Separate polystyrene, insulated inner doors to allow for staggered loading
- Programmable auto-defrost allows users to schedule defrosts that best fit their schedules
- Patented, ergonomically friendly, painted aluminum carrying baskets; accommodates plasma boxes and bags
- Wireless, triple timer to track each shelf separately
- Peace of mind with audible and visual alarms

**In a test of plasma bags filled with tap water, the XBF40D-MD reached 0°C in 27 minutes and -30°C in as fast as 90 minutes\***



\* Internal performance data, data on file. Testing involved a Thermo Scientific XBF40D-MD Blast Freezer. August 2014.

# Thermo Scientific XBF -40°C Blast Freezer Specifications

<b>Operating Temperature</b>	<b>-40°C (-40°F)</b>	
<b>Interior Dimensions W x D x H</b>	Unit <sup>1</sup>	34.4 x 28.22 x 51.23 inches (87.4 x 71.1 x 130.1 cm)
	Freezing Area <sup>1</sup>	34.4 x 14.5 x 51.23 inches (87.4 x 36.8 x 130.1 cm)
	Shelf	33.75 x 14.5 x 1.0 inches (85.7 x 36.8 x 2.54 cm)
<b>Exterior Dimensions W x D x H</b>	43.6 x 38.4 x 78 inches (109 x 96 x 196 cm)	
<b>Capacity</b>	Unit <sup>1</sup>	28.8 cu. ft. (815 L)
	Freezing Area <sup>1</sup>	14.8 cu. Ft. (418 L)
<b>Temperature Control</b>	Solid state Dixell® control and display	
<b>Refrigeration</b>	Single Stage R404A air-cooled 2.5HP compressor	
<b>Insulation</b>	Vacuum insulation panels and high density water-blown polyurethane foam	
<b>Shipping Weight</b>	732 lbs (332 kg)	

<sup>1</sup> Published interior volumes are nominal; useable capacities may be offset by shelves, carrying baskets, blower coils, or cabinet protrusions.

## Ordering Information

Thermo Scientific XBF -40°C Blast Freezer*			
Model Number	Description	Voltage (Hz)	Amps / Breaker
XBF40D	General Purpose Blast Freezer	208-230V / 60 Hz	16.0 / 20

Thermo Scientific XBF -40°C Blast Freezer for Rapid Plasma Freezing*			
Model Number	Description	Voltage (Hz)	Amps / Breaker
XBF40D-MD	Plasma Blast Freezer**	208-230V / 60 Hz	16.0 / 20

## Accessories

Model Number	Description
6640	Stainless steel shelf
6641	Aluminum carrying basket
6642	Wireless triple timer



Stainless steel shelf



Aluminum carrying basket



Wireless triple timer

## Line Cord Plug Reference

Model Number	Description
US230V20A	NEMA 6-20 

\* This product is not intended for long-term storage.

\*\*Note: The XBF40-MD is listed as a Class II medical device (product code KSE) with the US FDA, which is required for this application.



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