



# Thermo Scientific general purpose countertop freezers

When space is limited but performance cannot be



# Minimal space consumption and maximum convenience

## Countertop convenience

Thermo Scientific™ general purpose countertop -20°C freezers (GPF Series) are designed with minimal space consumption and maximum convenience in mind. From the exam room to the nurse's station and more, our compact, lightweight GPF unit can sit atop the counter or workstation and fit beneath most overhead cabinets.

The Thermo Scientific countertop GPF weighs 44 pounds. This allows for easy transportation and placement within any laboratory or clinical setting, with a countertop footprint about the size of a microwave. The size and weight is designed to increase user efficiency and lessen physical strain, as there is no bending or squatting required. A top-mounted controller, reversible door and ergonomic handle contribute to its modern design, which allows for a convenient, practical approach to a busy day. Multiple GPFs in a medical facility allow for the convenient storage of daily doses of vaccines and pharmaceuticals requiring frozen storage in multiple locations.

## Degrees of protection

When it comes to maintaining the safety and validity of pharmaceuticals, vaccines and more, the Thermo Scientific countertop GPF is the choice for sample protection. Our external display provides visual confirmation of temperature in order for users to control sample safety — all at your fingertips. And, our protection goes further, an audible and visual hi/low temperature alarm will alert personnel if temperature levels rise or fall to an undesirable degree.

## Security and reliability

Our countertop GPF freezers are designed and equipped with the features needed for transient vaccine and pharmaceutical storage. For example, standard door locks provide users with the basic comfort and assurance of sample safety and validity, as well as peace of mind. We understand that temperature stability is a top priority in a

laboratory or clinical environment. The countertop GPF has an excellent temperature recovery after door openings and closings while accessing medications, samples and reagents. The GPF is easy to operate, built for heavy yet reliable use, with straightforward functionality in mind.





# A better environment — inside and out

## SNAP compliant

Thermo Fisher Scientific is conscientious about the environment and meeting safe refrigerant standards. The Thermo Scientific Countertop GPF meets the standards established by the U.S. Environmental Protection Agency's Significant New Alternatives Policy (SNAP) program. SNAP evaluates chemicals that are harmful to the ozone and the health of human beings, regulating those chemicals — in this case refrigerants — and approving those that are environmentally safe while prohibiting the use of older refrigerants. The Thermo Scientific Countertop GPF features approved natural refrigerants and insulating materials, well in advance of any phase-out deadlines set by the EPA.

## The sound of quiet

Many standard market models are disruptively loud because of the mechanical performance needed to safely store clinical and/or laboratory materials. Often that relegates the units to inconvenient locations away from personnel — side rooms, hallways, etc. The GPF Series, however, is quiet enough to conveniently remain on workstation countertops.

The countertop GPF is engineered in a way that results in the unit making less than 40 decibels of sound. By comparison, a typical conversation at home is 50 A-weighted Decibels (dBA), a conversation in a restaurant is 60 dBA, and a vacuum cleaner is 70 dBA.

A more germane example may be hospital noise levels, which, according to a Johns Hopkins study, have increased at steady increments over the past 50 years. Daytime hospital averages are 72 decibels (Db) and nighttime averages are 60 dB.<sup>1</sup> The study found that technological devices were the cause of at least a large portion of that

noise. Multiple studies have found noise negatively affects people, from heart rates to blood pressure, increasing stress and disrupting sleep, the invasion of sound increases recovery times and can lead to heart issues.<sup>2 3 4</sup>



<sup>1</sup> "Rise in Hospital Noise Poses Problems for Patients and Staff," Johns Hopkins University news release, November 21, 2005, [http://www.jhu.edu/news\\_info/news/home05/nov05/noise.html](http://www.jhu.edu/news_info/news/home05/nov05/noise.html). Accessed August, 2016.

<sup>2</sup> Cheryl Ann Cmiel, et al., "Noise Control: A Nursing Team's Approach to Sleep Promotion," AJN, American Journal of Nursing, February 2004.

<sup>3</sup> C. Maschke, et al., "The influence of stressors on biochemical reactions—a review of present scientific findings with noise," International Journal of Hygiene and Environmental Health, March 2000, cited in Cole, Jasper et al. "Impact of acoustics on staff and patients in CCU," Hospital Development, November 10, 2005.

<sup>4</sup> "Exposure to high levels of noise increases blood pressure," University of Michigan News Service, November 18, 2005, <http://www.umich.edu/news/?Releases/2005/Nov05/111805>. Accessed August, 2016.

## Thermo Scientific general purpose countertop freezers

Model No.	Capacity cu. ft. (liters)	Temperature Setpoint	Electrical (Plug)	Shelves	Interior Dimensions: (D x W x H)	Exterior Dimensions: (D x W x H)	Certification	Weight lbs. (kg)
MF02PA-SAEE-TS	1.13 (32)	-20°C	115V, 60Hz (NEMA 5-15)	1	13 x 13.6 x 14.4 in. (33 x 34.5 x 36.6 cm)	19.7 x 18.7 x 20.8 in. (50 x 47.5 x 52.8 cm)	cULus	44 (20)

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### Wireless Monitoring

Thermo Scientific Smart-Tracker™ requires only a smart phone to access stored temperature readings. No other equipment or installation is necessary.



### Clinical Containers

Made with the highest quality resins, Thermo Scientific Nalgene™ bottles are engineered to work together with a proprietary valve seal and a strong, semi-buttress thread design. Our Nalgene bottles offer a leakproof guarantee because we manufacture and test both components together as part of our routine quality program.



### Gibco Media

Gibco™ media, sera, supplements, cells and cell culture reagents are designed to deliver reproducibility and performance for results you can count on. Regardless of whether you are performing cell culture in a research lab or production facility, need a special or defined formulation, or are growing cell lines, primary cells, or stem cells, Gibco products offer a reliable solution.



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