



PHARMACY REFRIGERATORS

SAFE STORAGE OF MEDICINE



TEMPERATURE PERFORMANCE

An often overlooked, but essential parameter is the temperature performance of the refrigerator.

OUR PHILOSOPHY

Vestfrost Solutions has always developed new innovative features to be ahead of the high demand for medical cooling.



Low Noise

We realize that our products are often placed in our user's immediate work environment. That's why it is important for us to contribute to a healthy work environment by keeping our products as quiet as possible, without compromising their performance.



Environment Friendly

Keeping power consumption low is not only about reducing our customers operational costs, it's also a matter of supporting them in reducing the environmental impact. On that same note we are also proud to state that our products are 80% recyclable on average.

Additionally, Vestfrost has been using natural refrigerants for more than 15 years, which means that our products are 100% CFC and HCFC free. Consequently, they carry virtually no impact on the ozone layer or the global warming.



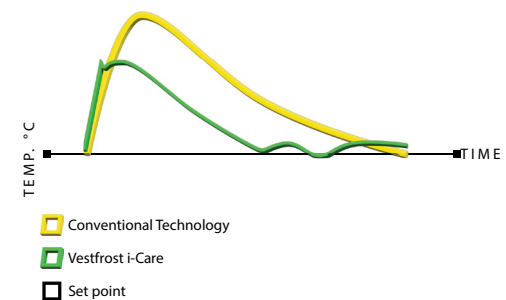
User Friendly

We understand that our products serve a role as facilitator for the end user. With that in mind we develop products from a user-perspective – They must be intuitive to use, easy to operate and effortless to clean, so that the user can concentrate on what's important for them.

Many types of medicine are susceptible to damage if not maintained in ideal temperature conditions throughout its life cycle. This poses a considerable risk both to the patients receiving the potentially damaged or ineffective medicine, and to the pharmacists in having to discard their expensive inventory.

A refrigerators Temperature performance is therefore essential and yet often overlooked, due to lack of information or the complexity associated with understanding it.

Pull down graph

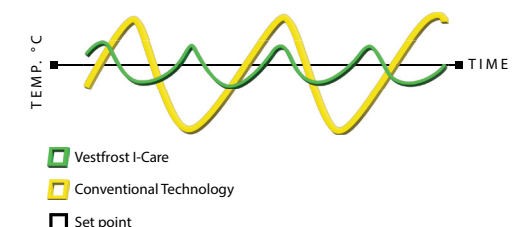


Here are 3 key indicators of temperature performance:

- **Temperature stability** - The precision in terms of maintaining a set-point temperature
- **Temperature accuracy** - How closely readings will match those of a calibrated standard
- **Temperature uniformity** - The potential variation in temperature between different points (*top & bottom i.e.. - see graph*)

Looking at those parameters you will find that domestic-, food- & even some biomedical refrigerators, are not adequate for safe storage of medicine.

Stability graph



A German Study showed an average value of 20.000€ in Medicine being stored in refrigerators at pharmacies

- What's your risk?



What's different?

Typically a good quality biomedical refrigerator is fitted with up to 5 probes, accurately monitoring the temperature at different points inside the cabinet, ensuring that the compressor works optimally.

Better panels, construction and airflow are also contributing factors to a good temperature performance.

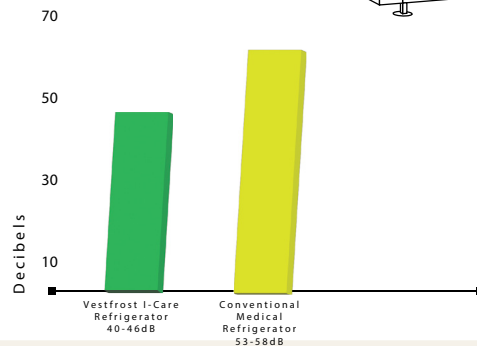
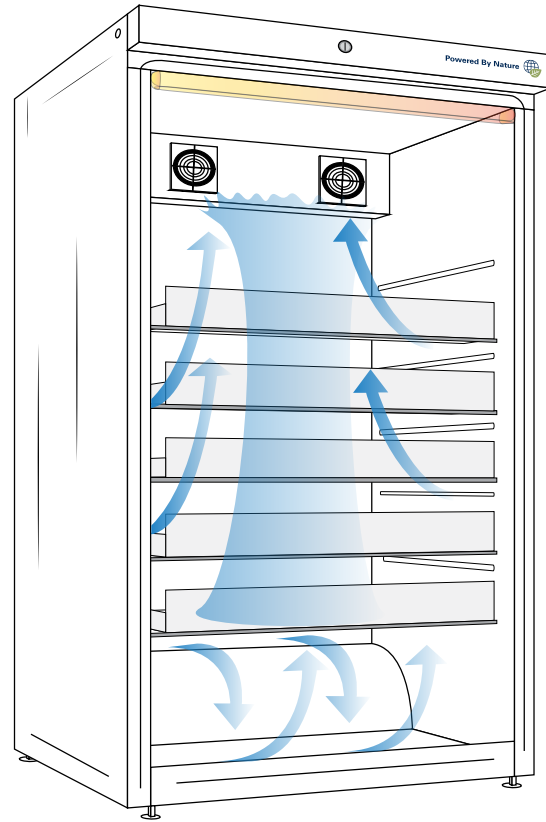
AIRFLOW

Distribution of the airflow inside the cabinet will improve temperature uniformity.

Another contributing factor to the safe storage of medicine, is the addition of fans.

By generating airflow in the cabinet they improve temperature uniformity & stability by eliminating "hot and cold spots" which you would see in domestic refrigerators & refrigerators with no or inadequate airflow.

These *hot and cold spots* often entails that areas of your storage space would not be suited for medicine, as the temperature conditions can affect both the quality and effectiveness of the medicine.

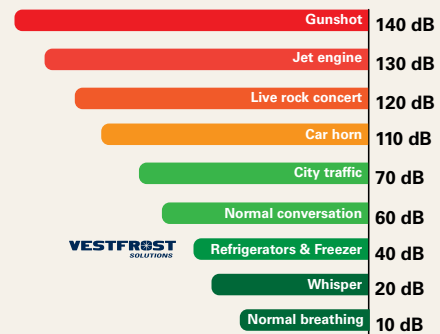


Low noise

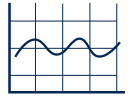
Biomedical appliances are located all over the world at various HealthCare and Life Science workplaces, from Hospitals and pharmacies to the local practitioner and laboratories. These can be busy environments where experts need to be able to concentrate and focus, to be at their best.

Operating under these circumstances we consider it vital to develop products that emit the lowest possible noise without compromising the performance.

A healthy work environment is critical not only for the well-being of the staff, but also for the output of their work.



DOCUMENTATION & RISK REDUCTION





Our safe and reliable options.

With professional biomedical refrigerators from Vestfrost you reduce the risk to your valuable and sensitive storage. Our series of biomedical refrigerators comes in a variety of sizes, making it possible to pick a size that covers the requested capacity.

Larger sized cabinets use more energy, but if the capacity they offer is not really necessary it is worth considering a smaller model. Energy savings can be upwards of EUR 100 annually. As standard - our models are equipped with our BioChill™ shelf, offering a flat surface to prevent medicine packages from tipping and becoming unorganized and made in high quality & perforated aluminium which retains cold and improves airflow.

We offer a wide range of accessories giving you the flexibility to build the model the way you prefer to organize the storage. True to our commitment towards a sustainable future, the series has been made to not have a negative impact on the environment and are marked with our “Environmental friendly – icon” as your guarantee.



Vestfrost



DIN 58345




SPECIFICATIONS	R-90i	R-138i	R-427i
Temperature range, C°	+2 to +20	+2 to +20	+2 to +20
Dimensions, H x W x D, mm	672 x 595 x 642	825 x 595 x 642	2002 x 595 x 642
Volume gross/net, liters	90 / 76	138 / 117	427 / 361
Shelves	1 + ½	2 + ½	5 + ½
Noise, dB	46	44	40
Energy consumption, kWh/24h	0,2	0,3	0,4

ACCESSORIES




Flexibility



BioChill™ Shelf

Features


- Perforated for airflow
- Made in Aluminum to retain cold
- Max loading: 20kg



Stacking kit

Features

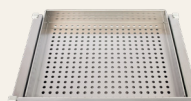
- Stack tabletop and/or undercounters
- 1 footprint for multiple temperature ranges



BioChill™ Basket

Features


- Perforated for airflow
- Made in ABS
- Max loading: 20kg



BioChill™ Drawer

Features


- Perforated for airflow
- Made in Aluminum to retain cold
- Divider kit included
- Max loading: 20kg



Wire Shelf

Features


- Good airflow
- Max loading: 20kg



Glass Door

Features

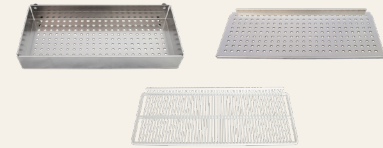
- Transparent
- Doubled layerd glass



Castors

Features

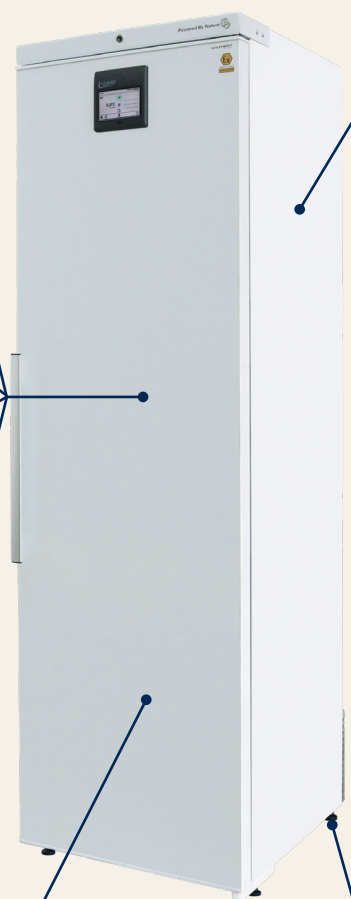
- Functional on multiple surfaces
- Brakes to ensure stable installation
- 4x for max mobility



Bottom Storage

Features

- Small Tray
- Small Alu shelf
- Small wire shelf



ISO 9001,
14001 & 18001
OHSAS
Certified

PROFESSIONAL SOLUTIONS

Vestfrost Solutions is a global developer and manufacturer of innovative and efficient refrigerators and freezers for the professional market. With more than 50 years' experience, we have strong records within manufacturing supplied to the global professional industry, where temperatures must be reliable and precise at all times. We employ numerous initiatives to reduce costs of product usage and to minimize environmental impact.

The continuously expanding product line is based on extensive research and thoroughly tested technology; all products honoring the highest requirements in terms of safety, quality and usability.

For more information, please visit our website:
www.vestfrostsolutions.com

