



**VONMARCKEN**  
LABORATORY & MEDICAL EQUIPMENT

[Klik hier voor meer informatie op vonmarcken.nl](http://vonmarcken.nl)

**VESTFROST**  
SOLUTIONS

Developed  
especially for  
pharmacies

# PHARMACY REFRIGERATORS

Reliable and precise temperatures at all times



# EXCLUSIVE PHARMACY REFRIGERATOR

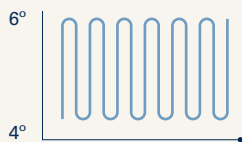
**In an industry where large amounts of expensive materials are stored it is relevant to ask if a refrigerator intended for storing food is suitable for storage of medication. That decision can be important and in the end far more expensive than investing in a medical graded refrigerator for the pharmaceutical storage needs.**

In many cases the storage temperature is one of the most important factors that can reduce the efficiency of medication. The storage conditions for certain types of medication can be satisfied by cold storage between 2 °C and 8 °C.

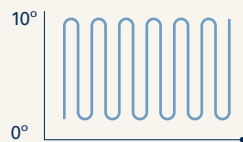
With a standard refrigerator, it is difficult to control the temperature stability and precision. However, Vestfrost biomedical refrigerators prevent temperature fluctuations and ensure that medications are kept in a controlled cool environment that maintains their efficacy.

If the storage conditions for medications are not optimal, it can influence the stability and quality of the medications and they may not work in the way they were intended. This can cause a potential risk to the health of the person receiving the medication.

That's why monitoring of storage temperature is vital. The advantage of the controllers for Vestfrost biomedical refrigerators is that they provide features such as a data logger with memory for temperature monitoring and alarms for temperature deviations.



**A medical refrigerator always stays inside the decided temperature range. ( Here 4° - 6° )**



**A household refrigerator have bigger fluctuations as there is no air circulation, safety thermostat and another type of cooling system.**



**According to the pharmaceutical industry insulin will lose effect, if product is being frozen for a short time, as protein will be destroyed**



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## PHARMACEUTICAL REFRIGERATOR FOR PHARMACIES

**DIN 58345  
Kit as  
optional**

Pharmaceutical controller, which ensures audio and visual alarms if temp. is outside limits.

Stabile and precise cooling system, ensures refrigerator achieve temp. fast when door has been open

Prepared for DIN 58345 fullfilment.

Backplate protection to secure content do not get any frost damages.

Price for medical refrigerator is up to 3 times more expensive than a normal household refrigerator, but power consumption is up to 33% lower.

Dual ventilator for optimal temp. distribution ensures refrigerator can be fully used.

Safety thermostat for securing lowest temp. level and content do not get frozen.

Battery back-up for alarm signals and temp. logging in case of power failure in the building.

Different accessories for customization and ergonomical equipped refrigerator.

Glass door for optimal view ensures short time door opening.





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## Features

Temperature range +2°C to +8°C  
Noise 41 dBA  
Lock  
Led light  
Porthole  
USB connection  
High/Low temperature alarm  
Open door alarm

## Optional

Drawers with dividers  
Extra shelves  
DIN 58345 Kit

For more informations,  
please look at  
[www.vestfrostsolutions.com](http://www.vestfrostsolutions.com)



**AKG – AKS 337**

Gross volume 306 Litres (10,80 cu.ft.)



**AKS – AKG 397**

Gross volume 381 Litres (13,45 cu.ft.)



Drawers with dividers



Perforated shelf



PVC coated wire shelf (standard)

## Din 58345 includes following basic requirements:

- Operating temperature between +2°C and +8°C.
- Refrigerator can be used in an ambient temperature between +10°C and +35°C.
- Visual and audible warning for high and low temperature alarms.
- Visual and audible warning for power failure alarms for a minimum of 12 hours.
- Dry contact for external alarm system.
- Safety thermostat to avoid temperatures below +2°C.
- Lockable door.
- Noise less than 60dB(A).
- Exterior and interior are easy to clean and disinfect.
- Interior fittings are easy to remove.
- Automatic defrosting.
- Resistance of internal fittings at least 100 kg/m<sup>2</sup>.