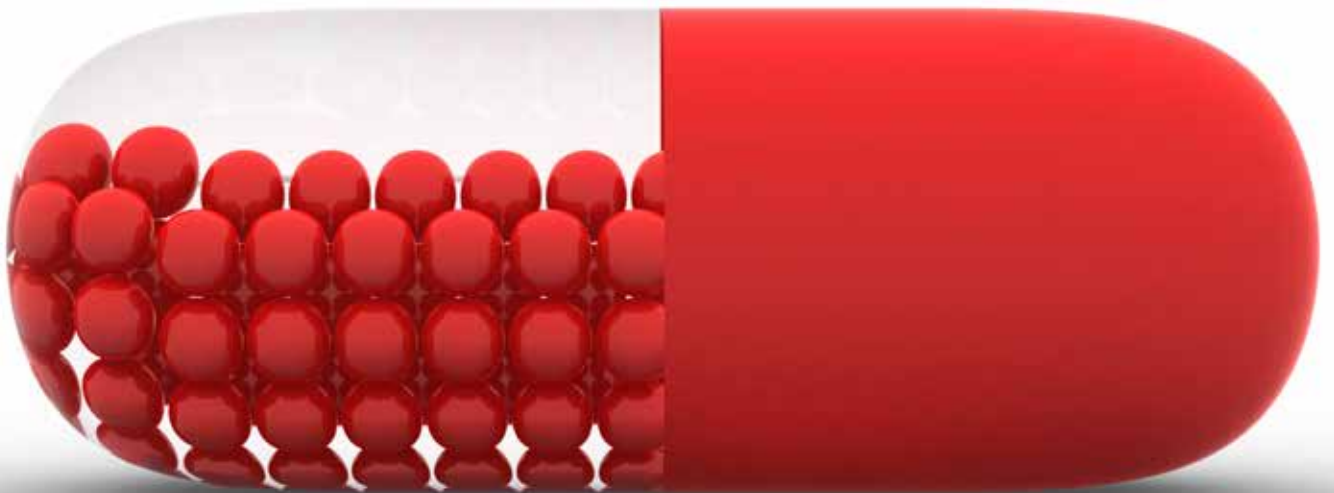


Reliable cooling solutions...
...for demanding needs

Over 1,75,000
satisfactory installations
in India



 THE MIDDLEBY CORPORATION

Life saving vaccinations must be stored under exacting conditions to ensure maximum efficacy. Celfrost brings to India, reliable medical refrigeration products suitable for laboratories, hospitals, research institutions and even remote locations for pharmaceutical, bio- medical & life sciences applications.

Premium Pharmacy Refrigerators

With their sleek design and stable temperatures from +2°C to +8°C, these advanced range of pharmacy refrigerators from Vestfrost Solutions, Denmark are developed for reliable storage of medicine in pharmacies, laboratories and hospitals.

ISO 9001, 14001 & OHSAS 18001 CERTIFIED



AKG 427E



AKG 377

Features

- External and easily accessible control panel
- External digital temperature display & electronic temperature control.
- Audible and visual alarm in case of temperature changes
- Top light provides maximum visibility
- Reversible glass door
- Integrated lock
- Functional adjustable wire shelves
- Optional: extractable and adjustable drawers with partitions for organized storage
- Added features in AKG 427E : USB data transfer, digital controller, optional battery backup, dry contact for remote alarm, plate shelves, LED lighting



Large Control Panel



USB Data Collection Point



Castors



Adjustable Drawers (Optional)

Low Temp & Ultra Low Temp Upright Freezers | -45°C | -86°C |

These Vestfrost low temperature freezers create the possibility to maintain temperatures as low as -45°C (VT 254) and upto - 86°C (VT 258) These two models come with a door alarm and high/low temperature alarm. The ULT freezer with integrated USB port for data transfer and monitoring is designed with Nature R refrigerant and a single compressor system, which minimizes running costs and results in a very eco-friendly unit.

Features

- Light
- Lock
- Adjustable shelves and internal doors
- Castors
- Handle to secure correct closing of the door
- Chart recorder (optional)
- LED lighting
- Digital controller
- USB data transfer
- Power failure alarm
- Battery backup : 48 hours



VTS 254



VTS 258



Biomedical Controller



Castors



Internal Lids + Shelves

Icelined Refrigerators for Vaccine Storage

Vestfrost Solutions proudly presents a new ground-breaking and green ILR technology vaccine refrigerator that is remarkably eco-friendly and comes with an enhanced net capacity due to the integrated icelining whilst energy consumption is approximately 3 times lower as compared to other icelined refrigerators. A self regulating cooling system makes VLS 400 green line a very reliable and user-friendly appliance.



VLS 400

Features

- Reliable temperature between +2°C to +8°C
- Only 8 hrs. of electricity needed per 24 hrs. at 43°C ambient
- Self-regulating cooling system.
- External cabinet and internal liner pre-painted galvanized steel protects against corrosion.
- Cooling coil of copper.
- Danfoss compressor; suitable for use in the tropics. Starting 22 % below rated voltage.
- 7 baskets for organized storage (optional).

Green technology

- Hydrocarbon refrigerant
- Cyclopentane insulation
- Extremely low energy consumption
- Recyclable components.



Solar driven display

Solar Driven Vaccine Refrigerators

Based on the unique Solarchill ice bank technology, the Vestfrost MKS 044 functions safely without use of energy storing batteries or contaminating fuel. Solar panels supply the necessary power and the icebank provides a reliable temperature in the vaccine compartment – even when the sun is absent for days. The temperature is controlled and maintained via self-regulating convection between icebank and vaccine compartment.



MKS 044 with Solar Panels*

Features

- Reliable temperature between +2°C to +8°C
- No electricity, fuel or battery required for energy storage result in no operating costs
- Icebank provides reliable temperatures-even when the sun is absent for days
- Simple installation and easy to operate
- Maintenance free - only the solar panels must be wiped for optimal utilization of the sun
- Field-tested 2 years under extreme conditions in Senegal, Cuba and Indonesia

Green·SolarChill·Technology

- Hydrocarbon refrigerator
- Cyclopentane insulation
- Energy storage in natural icebank
- No pollution
- No harm on the ozone layer
- No contribution to global warming

*Solar Panels not supplied with standard equipments



Icebank instead of batteries – SolarChill Technology

Based on the unique SolarChill icebank technology, MKS 044 functions properly and safely without expensive energy storing batteries or contaminating fuel. The icebank consists of a natural depot of ice. Temperature is controlled and maintained via self regulating convection between ice storage compartment and vaccine compartment.

Low Temp & Ultra Low Temp Chest Freezers | -45°C | -60°C | -86°C |

These Vestfrost low temperature freezers create the possibility to maintain temperatures as low as -45°C (VT 147 & VT 307), upto -60°C (VT 407) and upto -86°C (VT 78 & VT 408). Supreme stability, reliability, user-friendliness and ease of cleaning make these freezers an ideal solution for laboratories and hospitals. Nature R refrigerant, cyclopentane insulation combined with recyclable materials make the freezers extremely eco-friendly.



VT 147 / VT 307



VT 407



VT 78 / VT 408

Features

- Eco-friendly Nature R refrigerant.
- Single compressor low-energy system.
- Digital XR30CX Controller
- Audible and visual alarm
- Prepared for CO2 backup systems and temperature logging equipment
- User-friendly and maintenance-free
- Battery backup for temperature display

Control panel

- Pre-programmed from factory. Parameters can be reset with hot key.
- Programmable in both Fahrenheit and Celsius.



Reliable temperature

Powerful cyclopentane insulation ensures optimal temperature stability. The actual temperature is viewed on the digital XR30CX controller with display, which is pre-programmed from factory. Parameters can be reset with hot key.

ISO 9001, 14001 & OHSAS 18001 CERTIFIED

Technical Specifications

Model	Pharmacy Refrigerators								Icelined Refrigerator	Solar Driven Refrigerator
	CFKS 471	FKG 120	FKG 320A	FKG 370	FKG 400	FKG 1000S	AKG 427E	AKG 377	VLS 400	MKS 044
Capacity (ltrs.)	381	120	320	381	400	950	356	377	235	48
Dimensions WxDxH (inch)	23 x 23 x 73	22 x 23 x 39	23 x 23 x 67	24 x 23 x 73	24 x 23 x 78	47 x 28 x 76	24 x 25 x 81	24 x 24 x 73	50 x 28 x 34	29 x 28 x 35
Temperature range	2 ~ 8°C	0 ~ 10°C	0 ~ 10°C	2 ~ 8°C	0 ~ 10°C	0 ~ 10°C	2 ~ 8°C	2 ~ 8°C	2 ~ 8°C	2 ~ 8°C
Castors	Rear Only			Rear Only			Yes	Rear Only	Yes	Yes
Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rated Load, W	300	135	210	350	330	100	NA	350	NA	-
No. of shelves/drawers/baskets	6	1+2	4	6	4	5+5	Plate (5)	Wire (5)	Baskets (7 Optional)	3
No. & type of door / lid	1 (Solid)	1 (Glass)	1 (Glass)	1 (Glass)	1 (Glass)	2 (Glass)	1 (Glass)	1 (Glass)	1 (Solid)	1 (Solid)
Refrigerant	R134a			R134a/R600a			R600a	R134a	R600a	-
Digital display & controller	Display	-	-	No	-	-	Yes	Yes	Yes	Display, Self-regulating System
Visual & acoustic alarm	No	No	No	No	No	No	Yes	Yes	No	No
Battery backup (in case of power cuts)	No	No	No	No	No	No	Optional 48 hours	No	No	No
Chart recorder	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	No	No
Data logger & USB data transfer	No	No	No	No	No	No	Yes	No	No	No
Certification	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE
Who PQS Code									E003 / 021	E003 / 009

Specifications, features, models and colours are subject to change, without any prior notice, due to continuous product development.

Blood Bank Refrigerators

The Vestfrost BBR 290 is an exclusive blood bank refrigerator designed for blood centers, hospitals and laboratories. Furthermore, it is equipped with data collection point by USB port, digital temperature display and fully electronic temperature control that ensures correct temperature for reliable storage of refrigerated blood and related products. The BBR 290 is also an eco-friendly solution with minimal running costs due to its low power consumption.



BBR 290



Digital Controller



USB Data Logging

Large control panel

Easy view of the cabinet temperature. Temperatures history with the illustrative graph chart can be generated on the screen. Temperature data can be downloaded with the USB data logging system. In case of power failure, the optional battery back-up system will notify about temperature fluctuations up to 48 hours.

USB data collection point

Data of temperature history can be downloaded via the built-in USB port. This serves as an added safety feature when the refrigerator is left unattended for longer periods. Equally, it is useful for reporting statistics that validate correct storage temperature over longer periods.

Features

- Door alarm
- High/low temperature alarm
- Internal LED light
- Digital temperature display and controller
- USB data transfer
- Power failure alarm
- Battery backup 4 8hours
- Drawers
- Auto defrost



Extractible Drawers



Castors

Adjustable drawers

The optional extractible drawers inside the cabinet include partitions for rational storage of blood bags, which can be positioned lying or standing

Castors

The tail and streamlined design makes the blood bank refrigerator fit easily into any room and setup. Mobility is, in addition, enhanced by the castors, which makes positioning and re-positioning effortless.

Technical Specifications

	Icelined	Upright Freezers	**Low Temp Upright Freezers	**Ultra Low Temp Upright Freezers	***Low Temp Chest Freezers			***Ultra Low Temp Chest Freezers		Blood Bank Refrigerator
Model	MKF 074	BFS 345 S	VTS 254	VTS 258	VT 147	VT 307	VT 407	VT 78	VT 408	BBR 290
Capacity (ltrs.)	54	344	253	253	140	296	383	74	383	319
Dimensions WxDxH (inch)	28 x 28 x 33	24 x 24 x 73	24 x 25 x 81	24 x 25 x 81	28 x 24 x 35	50 x 24 x 35	61 x 24 x 35	23 x 25 x 35	61 x 27 x 35	24 x 25 x 35
Temperature range	2 ~ 8°C	-16 ~ -25°C	-10 ~ -45°C	-60 ~ -86°C	-10 ~ -45°C	-10 ~ -45°C	-30 ~ -60°C	-60 ~ -86°C	-60 ~ -86°C	4°C
Castors	Yes	Rear Only	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rated Load, W	NA	180	NA	NA	300	400	400	130	575	NA
No. of shelves/drawers/baskets	2	Wire (8)	Plate (5)	Plate (5)	1	1	1	Inner lids, 1	Inner lids, 4	Plate (Optional)
No. & type of door / lid	1 (Solid)	1 (Solid)	1 (Solid)	1 (Solid)	1 (Solid)	1 (Solid)	1 (Solid)	1 (Solid)	1 (Solid)	1 (Glass)
Refrigerant	R134a	R134a	Nature R	Nature R	R404a	R404a	Nature R	Nature R	Nature R	R600a
Digital display & controller	Display, Self-regulating System	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Visual & acoustic alarm	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery backup (in case of power cuts)	No	No	Optional 48 hours	48 hours	No	No	No	Yes	Yes	48 hours
Chart recorder	No	No	Optional	Optional	No	No	No	No	No	Optional
Data logger & USB data transfer	No	No	Yes	Yes	No	No	No	No	No	Yes
Certification	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE
Who PQS Code	E003 / 010									

**Operates at 16°C to 20°C ambient

***Operates at 25°C ambient

Icelined Refrigerator / Icepack Freezer

This unique combined vaccine refrigerator and icepack freezer has an electronic thermostat and heating element system. The specially designed icelining ensure stable temperature control in the range of +2°C to +8°C. The actual temperature is readily checked on the external digital thermometer. Efficient insulation and the icelining ensure long hold-over time in case of power cut. The cabinet is equipped with baskets, allowing organized storage.



MKF 074

Features

- Reliable temperature between +2°C to +8°C
- Only 8 hrs. of electricity needed per 24 hrs. at 32°C ambient
- Self-regulating cooling system
- Heating element system
- Danfoss compressor ; suitable for use in the tropics
- Solid lid with handle and lock
- 2 baskets for organized storage



Separate compartment for icepack freezing

Vestfrost MK 074 includes a separate compartment for icepack freezing simultaneously with vaccine storage in the main refrigerator compartment. Moreover, it is equipped with two additional internal lids, which saves power and reduces running costs.

Icelined Refrigerator / Icepack Freezer

These reliable upright freezers come with separate drawers and shelves for segregated storage of different pharmacy products. The BFS 345S continues to be the most popular pharmacy freezer in the Indian market. The BFS 150 is just right for smaller sized freezer requirements.



BFS 150



BFS 345S

Features

- Optional digital controller with display
- 8 shelf + drawers in BFS 345S
- 5 pull-out drawers in BFS-150
- Super-freeze function
- Reversible door
- High-temperature alarm



Separate Drawers

The good lightning and transparent drawers and flaps maximise the visibility in the product.

Pharmacy Refrigerators & Freezers in Stainless Steel

These rugged refrigerators and freezers in stainless steel from Celfrost come with an automatic defrost mechanism and auto shut doors for energy efficiency.



GN 650TBM (New) / GN 650BTM (New)



GN 1410TBM (New) / GN 1410BTM (New)

Features

- Digital temperature controller with display
- No frost
- Door lock for safety
- Energy efficient, self-closing doors
- Lockable, swivel castors
- Precise temperature
- Easy to clean, 304-grade, stainless steel interior and exterior
- Freely adjustable plastic-coated shelves
- Removable door gasket for ease in cleaning



Digital temperature display



Removable door gasket for easy cleaning

Popular Pharmacy Refrigerators

The FKG series pharmacy refrigerators from Vestfrost Solutions are very popular in India and come with a large storage capacity, optional sliding shelves and a concealed thermostat. They are suitable for reliable storage of medicine in pharmacies, laboratories and hospitals.

ISO 9001, 14001 & OHSAS 18001 CERTIFIED



Safe Storage

You have the possibility to choose an accessory lock that prevents unauthorized access to the products.



Stable and strong shelves

With merely 6 mm between the grooves, the shelves are very stable and strong.

Features

- Top light provides maximum visibility.
- Reversible glass door
- Integrated lock
- Functional adjustable wire shelves



FKG-110



FKG-320



FKG-400



FKG-471



FKG-371



FKG-1000S

Flake Ice Machines

Celfrost Flake ice machines are perfect for use in research labs and bio-medical, life sciences and healthcare applications. Flake ice has a residual water (unfrozen) content of 25%, thus capable of transferring moisture onto the products being refrigerated.

Features

- Flake Ice machines and modular flake ice machine in models from 90 kg to 200 kg per day
- Modular Super Ice Flake Machines with high production capacity from 320 to 1150 kg per day
- Low water and energy consumption
- Compatible Ice Storage Bin available separately at an extra cost



AF-80



MF-26



IF-200 on IB-105 Bin

		AF-80	MF-26	IF-200	IF-330	IF-600	IF-1200
Ice Flake Production	Kgs./24hrs.	73*	120*	200*	320*	600*	1150*
Ice Type		Flake	Flake	Flake	Super Flake	Super Flake	Super Flake
Dimensions with Bin (WxDxH)	Inches	21x25x33	27x20x39.5	22x40.7x62	30x33.2x62	30x34x81	48x44x90
Refrigerant		R-134a	R-134a	R-404a	R-404a	R-404a	R-404a
Storage Bin Recommended		Built-In	IB-105	IB-105	IB-205+KF205**	IB-255+KF255**	IB-500
Bin Storage Capacity	Kgs.	25	45	181	181	243	553
Water Consumption	Ltrs./hr	3.5	4.6	6.5	11	18	36
Electric Consumption	kwh per 100kg	12.5	11.6	11	10.8	10.2	9.2
Net Weight (excluding bin)	Kgs.	51	52	49	78	94	179

*Capacities for all models are based on air/water temperature of 100C/100C. **KF205 or KF255 represent a kit required for combining wider bin a smaller ice flake machine.
Electricals : 230V/50Hz/1Ph for all models except IF-1150 that has 400V/50Hz/3Ph
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