

Beratung, Vertrieb, Service:



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HEALTHCARE BIOMEDICAL COOLING SOLUTIONS

COOLING WITH CARE
SECURING HEALTH, PROTECTING LIVES

Protect what matters with cooling solutions
designed to safeguard health and save lives.

UPRIGHT FREEZERS

F-SERIES

-5°C to -25°C

Secure freezing

Delivering dependable performance for professionals who require industry-leading cooling and operational stability.

These freezers are designed for precision, keeping sensitive life science materials safe under consistent, controlled conditions.

Flexible operation

Each unit includes the ETR-System™ (Extended Temperature Range), enabling operation from -5°C to -25°C.

This flexibility lets professionals adapt cooling to their specific needs while reducing energy consumption - lowering operating costs and minimizing carbon emissions.



	F-90i	F-138i
Temperature Range, C°	-5 to -25	-5 to -25
Outer Dimensions, HxWxD	672x595x642	825x595x642
Inner Dimensions, HxWxD	481x475x425	676x475x425
Volume, Gross/net, L	90 / 76	138 / 117
Shelves, Full/half	1 / 1	2 / 1
Energy Consumption	1,1 kWh/24h	1,419 kWh/24h
Voltage, V/Frequency, Hz	230V-50/60Hz	230V-50/60Hz
Noise, dB	40	45
Variable Speed Compressor	Yes - Adaptive Cooling Technology	
Mobility	Standard: Adjustable Feet - Option: Casters	
Certificates	ATEX - DIN 13277	



F-90i

BIOMEDICAL FREEZER

With the smallest footprint, this unit is perfect for storing biomedical content in a room with limited space. The unit can be placed on a table for easy access in your work environment.



-5°C
-25°C

Products are subject to change due to enhancements and continuous development. Vestfrost Solutions reserve the right to alter any information, without further notice.

DIMENSIONS

Outer Dimensions HxWxD, mm	672x595x642
Inner Dimensions HxWxD, mm	481x475x495
Weight Gross/Net, kg	54 / 44
Material inner cabinet	ABS
Material outer cabinet	Painted Steel
Packaging weight, kg	10
Packaging dimensions HxWxD, mm	840x740x650
Insulation thickness	50
Insulation type	Polyurethane with Cyclopentane
Air distribution	Dynamic
Mobility	Standard: Adjustable Feet - Option: Casters
Refrigerant, Type / gram	R600a / 38
Variable Speed Compressor	Yes - Adaptive Cooling Technology
Number of probes	2

CONTROLLER

Controller	i-Care, Touch screen
Controller language	EN, DE, FR
USB Connection	Yes
Logging	Data, Alarms & Events
Temperature graph	Yes
High/Low temp. Alarm	Yes
Open door alarm	Yes
Probe failure alarm	Yes
Power failure alarm	Yes

STORAGE

Volume, Gross/Net, L	90 / 76
Shelves, Full/Half	1 / 1
Shelf material	Perforated stainless steel

FEATURES

Lock	Yes
LED light	Yes
Battery Backup for Controller, 24h	Yes
No-Frost System™	Yes
Door frame heater	Hot gas
Porthole	Yes - Ø 20 mm
Dry Contact	Yes
Door	Standard: Solid
Door Features	Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility	Yes

F-90i

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SPECIFICATIONS		
Voltage/Frequency	Voltage/Hz	230V/50-60Hz
Max Ambient	°C	35°C
Max Humidity	% rh	65%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	-5 to -25
Uniformity in performance - difference between top and bottom	°C	+/- 1.9
Pull down time	Minutes	69 min to -20°C
Hold over time	Minutes	54 min to -10°C
Noise	dB	40
Energy Saving Mode	kWh/24h	0,94kWh/24h Set -20
Energy Consumption, kWh / 24h	kWh/24h	1,1kWh/24h Set -25
Energy year	kWh/year	401kWh/y Set -25°
Instant Power Consumption	kW	PD 0,120/Stable 0,046
Heat Rejection*	W	50
U-Value	W/m ² K	0.59
COOLING COMPONENTS		
Refrigerant/Amount (gram)		R600a/38gr
Number of compressors	pcs	1
Variable speed compressor	Yes/No	Yes
Internal air distribution (type of)		Dual Air Stream
Evaporator Fan	Yes/No/Variable	Yes
Condenser Fan	Yes/No/Variable	No
Number of probes	pcs	2
Defrost	Yes/No	Yes - automatic
FEATURES		
Safety thermostat	y/n/optional	No
Lock	y/n	Yes
LED light	y/n	Yes
Battery Back Up For Controller	y/n/optional	Yes - 24h
Porthole	y/n - Ømm	Yes - Ø 20mm
Dry contact	y/n	Yes
Casters	y/n/optional	Optional
Door	glass/solid	Solid
Door closure	y/n/optional	Yes
Door reversibility	y/n	Yes
Automatic Hold 90°C	y/n	Yes
Vacuum valve	y/n	Yes
VIP (Vacum panel)	y/n	No
Perimeter heater		Hot gas loop

* Heat Rejection is defined as average power based on energy consumption, rounded up to nearest 50W.

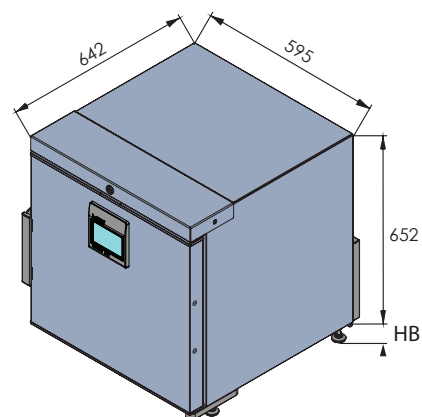
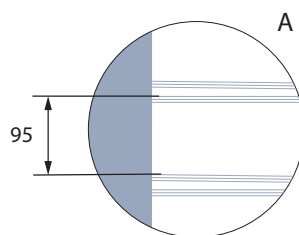
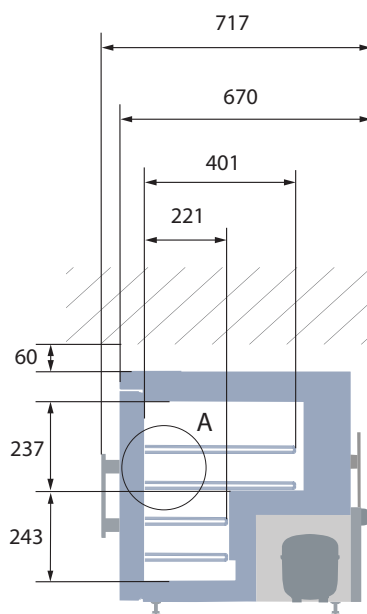
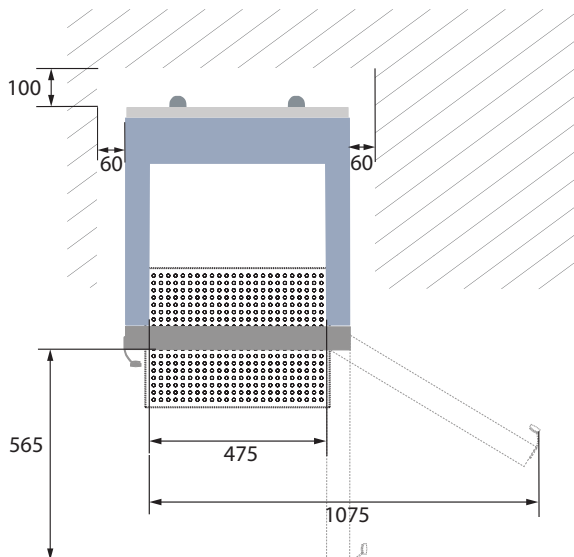
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Updated 02/2026

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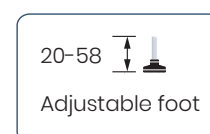
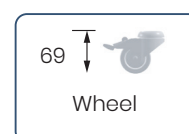
BIOMEDICAL FREEZER

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All measurements in mm.

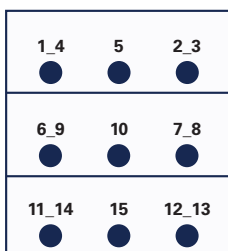
HB: Height of base
(HB is adjustable when given value is xx-xx)



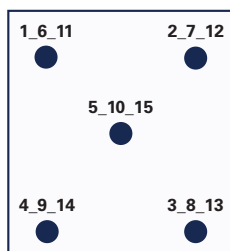
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SENSOR POSITION

FRONT VIEW



TOP VIEW



MODEL

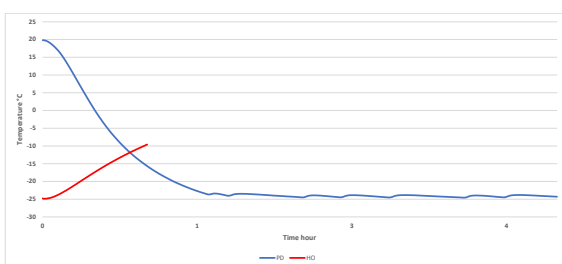
F-90I

Test type	15-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-25°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	R600a

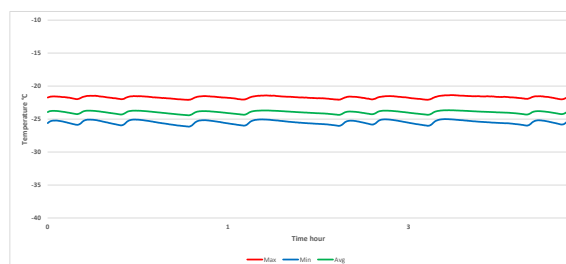
SENSOR TEMPERATURE

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
Max	-22	-22,4	-22,9	-21,5	-22,6	-22,4	-23,5	-23,5	-22,4	-23,4	-22,6	-23,5	-23,6	-22,5	-23,5
Avg.	-22,9	-23,3	-24,1	-22,2	-23,2	-23,4	-24,3	-24,3	-23,5	-24,4	-23,6	-24,6	-24,7	-23,3	-24,6
Min.	-24	-24,6	-25,3	-23,1	-24	-24,6	-25,2	-25,3	-24,8	-25,5	-24,8	-25,9	-25,9	-24,4	-26

WARM UP & PULL DOWN



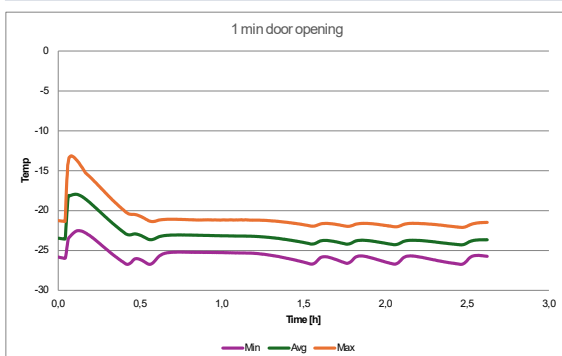
CYCLIC OPERATION



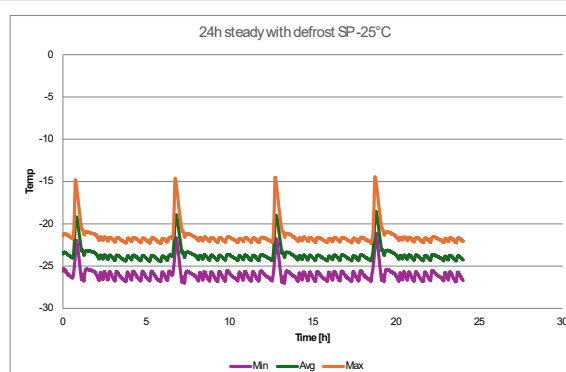
TYPICAL PERFORMANCE IN AMBIENT 20°C – EMPTY CABINET

Avg. cabinet temperature	-24°C
Uniformity	+/- 1,9°C
Stability in avg.	0,3°C
1 min. door open recovery to -20°C avg. temperature	9 min.
Cycle rate on/off	5,1 / 13,9 min.
Duty cycle	25,2%
Energy consumption - Normal mode	1,1 kWh/day
Energy consumption - Energy saving mode (-20)	0,94 kWh/day
Pull down time to -20°C avg. temperature	69 min.
Hold over time from -25°C to -10°C	61 min.
Sample temperature does not exceed	-15°C
Heat rejection	100

1 MIN DOOR OPENING



24 H STEADY WITH DEFROST SP -25°C





BIOMEDICAL

F-138i

BIOMEDICAL FREEZER

With a compact design, this undercounter fits perfectly beneath your work bench, providing a storage solution that is ideal for places where space is limited.



DIMENSIONS		VALUE
Outer Dimensions HxWxD		825x595x642
Inner Dimensions HxWxD		676x475x495
Weight Gross/Net, kg		60 / 49
Material inner cabinet		ABS
Material outer cabinet		Painted Steel
Insulation thickness		50
Insulation type		Polyurethane with Cyclopentane
Air distribution		Dynamic
Mobility		Standard: Adjustable Feet - Option: Castors
Refrigerant, Type / gram		R600a / 43
Variable Speed Compressor		Yes - Adaptive Cooling Technology
Number of probes		2
CONTROLLER		VALUE
Controller		i-Care, Touch screen
Controller language		EN, DE, FR
USB Connection		Yes
Logging		Data, Alarms & Events
Temperature graph		Yes
High/Low temp. Alarm		Yes
Open door alarm		Yes
Probe failure alarm		Yes
Power failure alarm		Yes
STORAGE		VALUE
Volume, Gross/Net, L		138 / 117
Shelves, Full/Half		2 / 1
Shelf material		Perforated Alu
FEATURES		VALUE
Lock		Yes
LED light		Yes
Battery Backup for Controller, 24h		Yes
No-Frost System™		Yes
Perimeter Heater		Hot gas
Porthole		Yes - Ø 20 mm
Dry Contact		Yes
Reference bottle		No
Door		Standard: Solid
Door Features		Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility		Yes

**BIOMEDICAL**

F-138i

BIOMEDICAL FREEZER

With a compact design, this undercounter fits perfectly beneath your work bench, providing a storage solution that is ideal for places where space is limited.

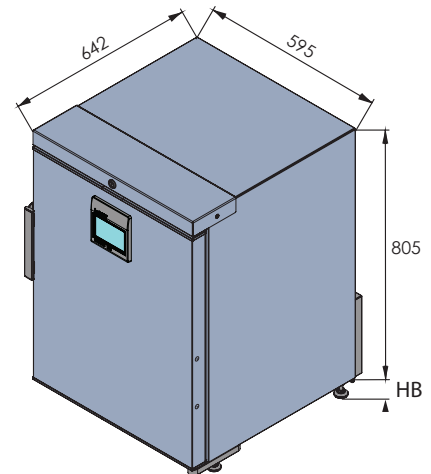
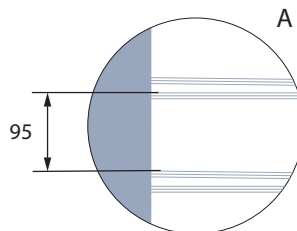
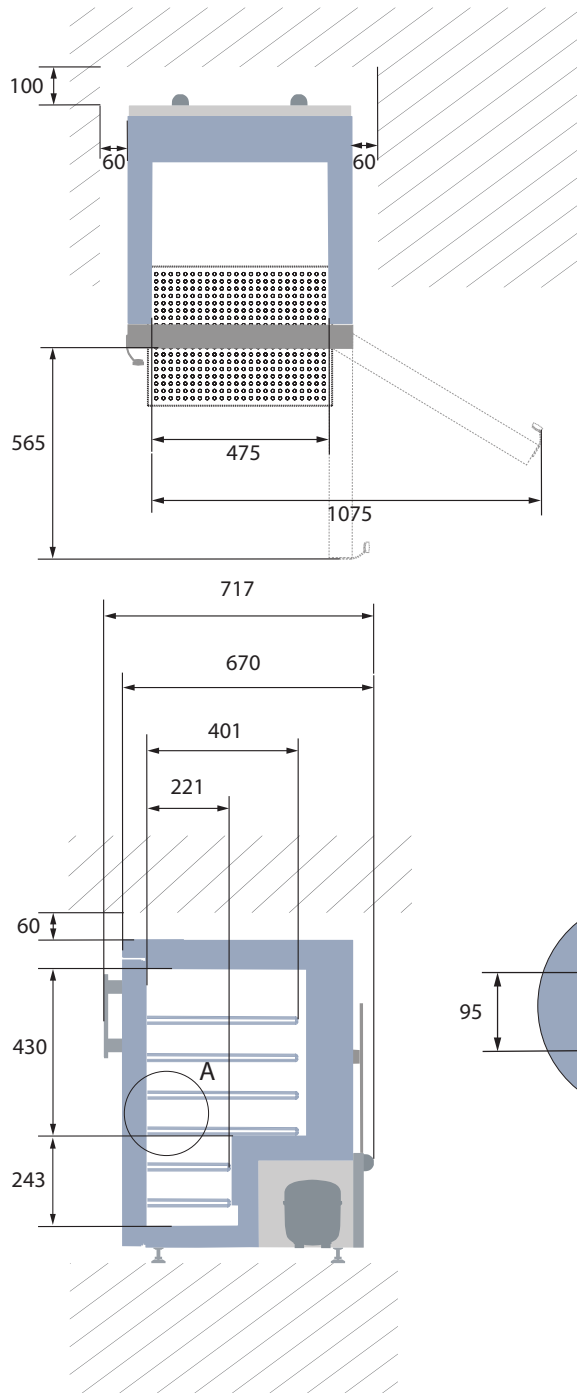
Voltage/Frequency	Voltage/Hz	230V/50-60Hz
Max Ambient	°C	35°C
Max Humidity	% rh	65%
PERFORMANCE	UNIT	VALUE
All data in RT20°C		
Temperature Range	°C	-5 to -25
Uniformity in performance - difference between top and bottom	°C	+/- 1.4
Pull down time	Minutes	70 min to -20°C
Hold over time	Minutes	61 min to -10°C
Noise	dB	45
Energy Saving Mode	kWh/24h	1,147kWh/24h Set -20
Energy Consumption, kWh / 24h	kWh/24h	1,419kWh/24h Set -25
Energy year	kWh/year	518kWh/y Set -25°
Instant Power Consumption	kW	PD 0,120/Stable 0,052
Heat Rejection	W	120
U-Value	W/m^2 K	0.59
COOLING COMPONENTS		VALUE
Refrigerant/Amount (gram)		R600a/43gr
Number of compressors	pcs	1
Varibel speed compressor	Yes/No	Yes
Internal air distribution (type of)		Dual Air Stream
Evaporator Fan	Yes/No/Variable	Yes
Condenser Fan	Yes/No/Variable	No
Number of probes	pcs	2
Defrost	Yes/No	Yes - automatic
FEATURES		VALUE
Safety thermostat	y/n/optional	No
Lock	y/n	Yes
LED light	y/n	Yes
Battery Back Up For Controller	y/n/optional	Yes - 24h
Porthole	y/n - Ømm	Yes - Ø 20mm
Dry contact	y/n	Yes
Castors	y/n/optional	Optional
Door	glass/solid	Solid
Reference Bottle	y/n/optional	No
Door closure	y/n/optional	Yes
Door reversibility	y/n	Yes
Automatic Hold 90°C	y/n	Yes
Vacuum valve	y/n	Yes
VIP (Vacum panel)	y/n	No
Perimeter heater		Hot gas loop



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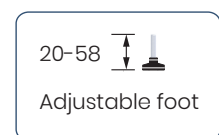
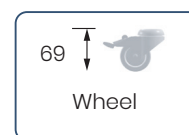
BIOMEDICAL FREEZER

With a compact design, this undercounter fits perfectly beneath your work bench, providing a storage solution that is ideal for places where space is limited.



All measurements in mm.

HB: Height of base
(HB is adjustable when given value is xx-xx)



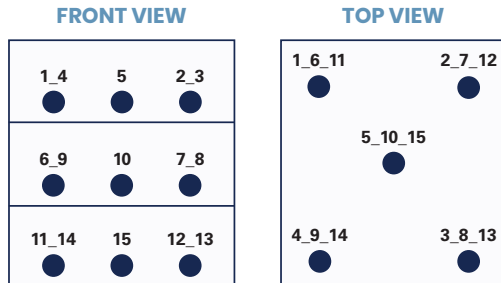


F-138i

BIOMEDICAL FREEZER

With a compact design, this undercounter fits perfectly beneath your work bench, providing a storage solution that is ideal for places where space is limited.

SENSOR POSITION



MODEL

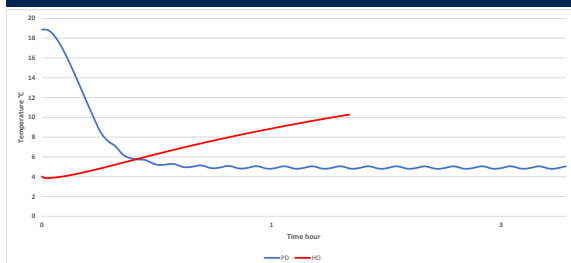
F-138i

Test type	15-point test
Test enviroment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-25°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	R600a

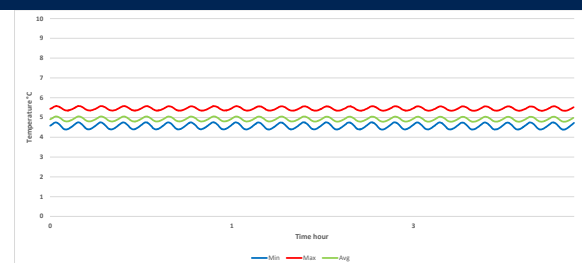
SENSOR TEMPERATURE

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
Max	-22,9	-22,9	-23,1	-22,5	-23,1	-24	-24,7	-24,4	-23,4	-24,4	-23,7	-25,4	-24,7	-24	-25,2
Avg.	-23,5	-23,4	-23,7	-23	-23,6	-24,5	-25,2	-24,8	-23,9	-24,9	-24,1	-25,9	-25,2	-24,4	-25,7
Min.	-24,1	-24	-24,2	-23,5	-24,1	-24,9	-25,6	-25,3	-24,3	-25,3	-24,5	-26,4	-25,7	-24,9	-26,2

WARM UP & PULL DOWN



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C – EMPTY CABINET

Avg. cabinet temperature	-24,4°C
Uniformity	+/- 1,4°C
Stability in avg.	0,3°C
1 min. door open recovery to -20°C avg. temperature	11 min.
Cycle rate on/off	29 / 2 min.
Duty cycle	92,6%
Energy consumption - Normal mode	1,419 kWh/day
Energy consumption - Energy saving mode (-20)	1,147 kWh/day
Pull down time to -20°C avg. temperature	70 min.
Hold over time from -25°C to -10°C	61 min.
Sample temperature does not exceed	-15°C
Heat rejection	120

I-CARE CONTROLLER

The i-CARE controller is the intelligent control hub of your appliance, giving you instant access to storage data, maintenance schedules, and settings – all in one place.

With intuitive icons, logical menus, and fast response, operating biomedical appliances has never been easier.

Safety & identification

- Name device
- Set password for restricted parameters

Visual & acoustic alarms

- High/low temperature
- Open door
- Probe failure

Datalogging & live graph

- Integrated datalogging for documentation
- Plug and play system
- Extract reports via USB
- Live graph for quick overview
- Stores data for up to 3 years

Customizability

- Change alarm settings
- Change temperature shown
- Lighting control





Complexity made simple

The 5-inch touch screen is simple to navigate, with intuitive icons and customizable settings tailored to the needs of professionals.

On first startup, it guides you through a quick installation process, allowing you to select profile settings for medicines stored chilled or at room temperature.



Adaptive Cooling Technology™

Our Adaptive Cooling Technology™ delivers key advantages:

- Low noise for a comfortable work environment
- Lower energy consumption
- Fast temperature recovery
- Best in class temperature stability and efficient performance

This means that medical contents are stored in reliable & safe conditions – always.



Info Center

Accurate information and documentation are essential when storing sensitive biomedical materials. By continuously monitoring and making data easily accessible, we ensure full visibility of precious inventory.

Temperature readings, datalogging, live graphs, and event tracking provide complete control and peace of mind.

