VESTFROST SOLUTIONS

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.

ULTF CHEST SERIES

-20°C to -86°c

Maximum efficiency

High-value samples in the life science industry require secure storage at ultra-low temperatures.

Our ULTF chest freezers provide an economical solution that maintains cold stability thanks to their horizontal lid design, reducing temperature fluctuations and energy loss.

Flexible freezing

Each unit includes the ETR-System™ (Extended Temperature Range), enabling operation from -20°C to -86°C.

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






	ULTF-C74i	ULTF-C198i	ULTF-C296i	ULTF-C383i
	-20 to -86	**-20 to -86**	**-20 to -86**	**-20 to -86**
	921x550x550	831x920x608	831x1260x608	831x1560x608
	450x390x390	624x760x440	624x1100x440	624x1400x440
	74 / 71	198 / 189	296 / 284	383 / 368
	5,325 kWh/24h	5,994 kWh/24h	9,855 kWh/24h	9,957 kWh/24h
	230V-50Hz	230V-50Hz	230V-50Hz	230V-50Hz
	54	55	55	55
	No	No	No	No
	Standard: 4xCasters with brakes			
	ATEX			
	Chest freezer			

ULTF-C74i

BIOMEDICAL ULT FREEZER

The chest design is an economical choice, that preserves cold well due to the horizontal lid.



-20°C
-86°c

DIMENSIONS	
Outer Dimensions HxWxD, mm	921x550x550
Inner Dimensions HxWxD, mm	450x390x390
Weight Gross/Net, kg	74 / 50
Material inner cabinet	Painted Steel
Material outer cabinet	Painted Steel
Packaging weight, kg	24
Packaging dimensions HxWxD, mm	1008x705x795
Insulation thickness	80
Insulation type	Polyurethane with Cyclopentane
Mobility	Standard: 4 Casters with brakes
Refrigerant, Type / gram	Nature R2 / 121
Variable Speed Compressor	No
Internal Air Distribution	Static
Number of probes	1
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	No
Probe failure alarm	Yes
Power failure alarm	Yes
STORAGE	
Volume, Gross/Net, L	74 / 71
Cryobox "2 capacity	40
2 ml vials capacity	4.000
Inner lids	Yes
FEATURES	
Lock	Yes
LED light	No
Battery Backup for Controller, 24h	Yes
VIP (Vacuum Insulated Panel)	No
Door frame heater	No
Porthole	Yes - Ø 12,5 mm
Dry Contact	Yes
Vacuum valve	No
Door	Solid

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

Updated 02/2026

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ULTF-C74i

BIOMEDICAL ULT FREEZER

The chest design is an economical choice,
that preserves cold well due to the horizontal lid.

Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	30°C
Max Humidity	% rh	65%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	-20 to -86
Uniformity in performance - difference between top and bottom	°C	+/- 0,9
Pull down time	Minutes	72min to -75°C
Hold over time	Minutes	64 min to -60°C
Noise	dB	54
Energy Saving Mode	kWh/24h	4,018 kWh/24h Set -70
Energy Consumption, kWh / 24h	kWh/24h	5,325 kWh/24h Set -82
Energy year	kWh/year	1943,25 kWh/y Set -82°C
Instant Power Consumption	kW	PD 0,540-0,370/Stable 0,340
Heat Rejection*	W	250
U-Value	W/m^2 K	0,19
COOLING COMPONENTS		
Refrigerant/Amount (gram)		Nature R 2/121gr
Number of compressors	pcs	1
Variable speed compressor	Yes/No	No
Internal air distribution (type of)		Static
Evaporator Fan	Yes/No/Variable	No
Condenser Fan	Yes/No/Variable	Yes
Number of probes	pcs	1
Defrost	Yes/No	No

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

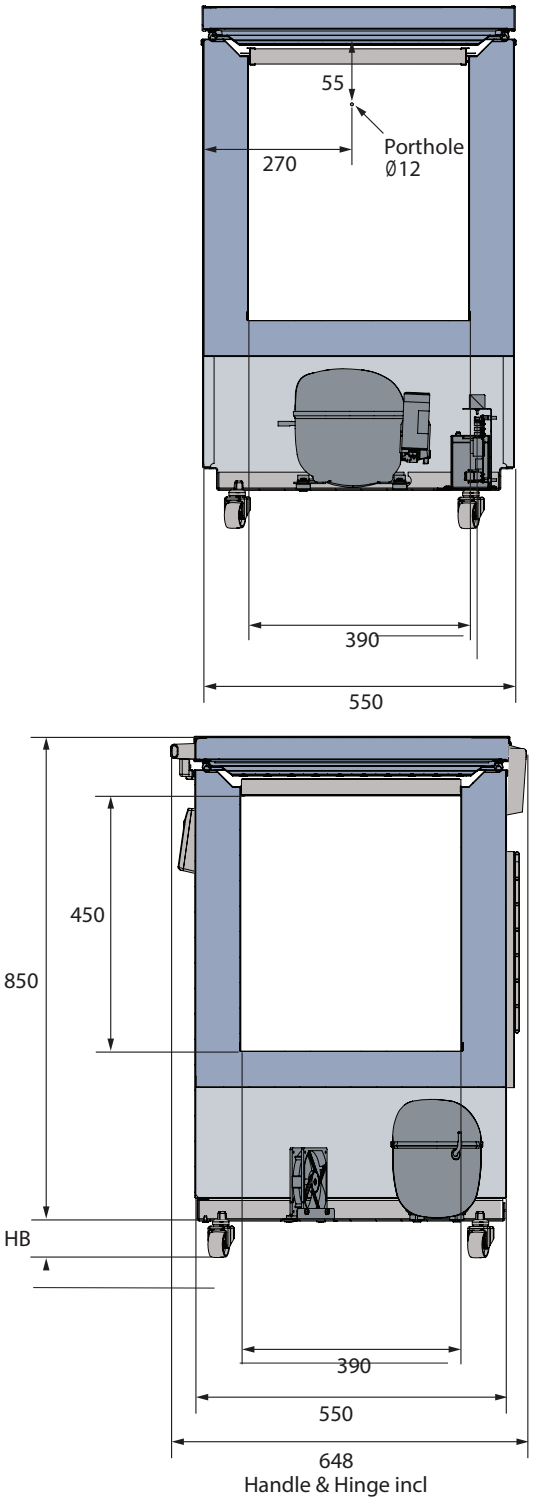
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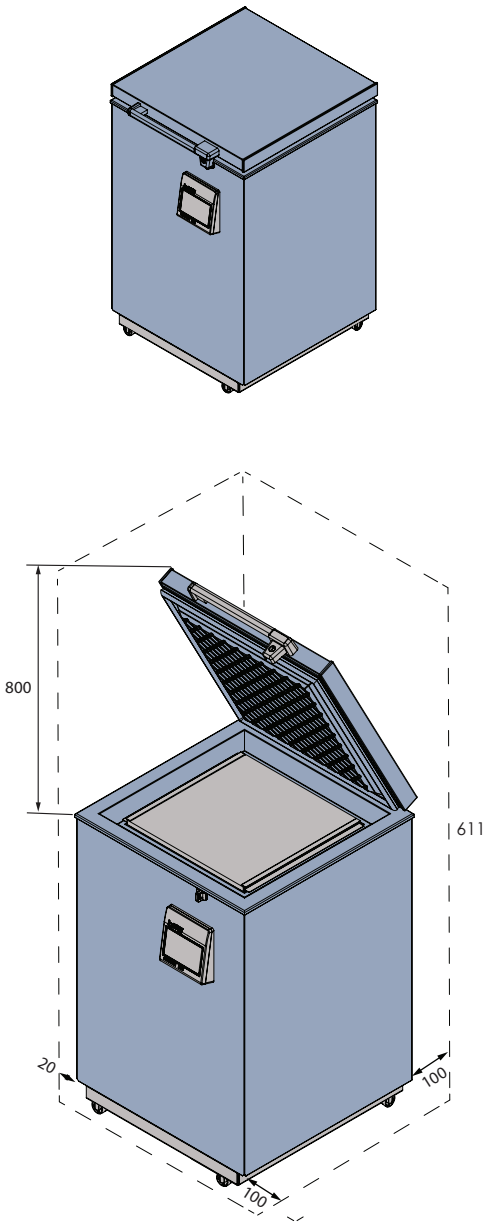
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ULTF-C74i

BIOMEDICAL ULT FREEZER

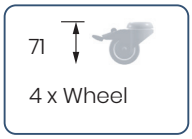
The chest design is an economical choice,
that preserves cold well due to the horizontal lid.





All measurements in mm.

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



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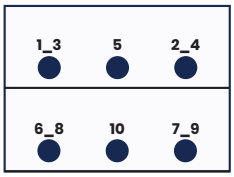
ULTF-C74i

BIOMEDICAL ULT FREEZER

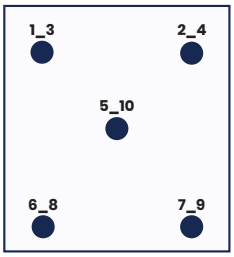
The chest design is an economical choice,
that preserves cold well due to the horizontal lid.

SENSOR POSITION

FRONT VIEW



TOP VIEW

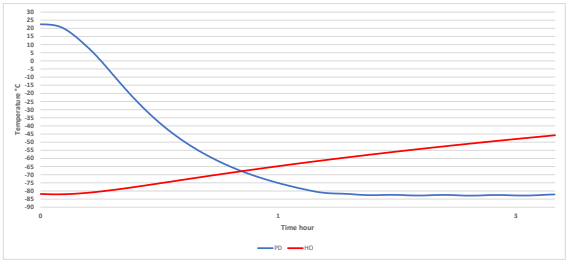


MODEL	ULTF-C74I
Test type	10-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	Nature R 2

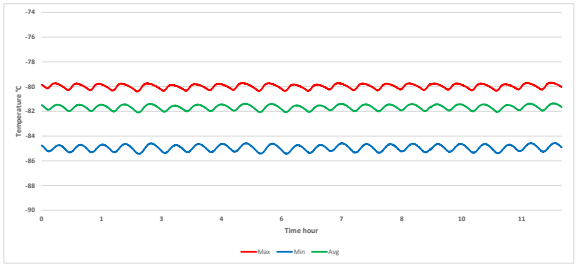
SENSOR TEMPERATURE

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Max	-83,9	-85,3	-85,2	-84,9	-85,6	-85	-85	-84,5	-85	-84,6
Avg.	-84,5	-85,9	-85,8	-85,5	-86,2	-85,6	-85,5	-85	-85,6	-85,1
Min.	-85,1	-86,5	-86,2	-86,2	-86,9	-86,3	-86,3	-85,6	-86,3	-85,7

WARM UP & PULL DOWN



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET

Avg. cabinet temperature	-85,5°C
Peak variation from set-point	+/- 0,9°C
Stability in avg.	1,0°C
1 min. door open recovery to -75°C avg. temperature	6 min.
Cycle rate on/off	16 / 7 min.
Duty cycle	68%
Energy consumption - Normal mode	5,32 kWh/day
Energy consumption - Energy saving mode	4,01 kWh/day
Pull down time to -75°C avg. temperature	72 min.
Hold over time from -82°C to -60°C	64 min.
Heat rejection	370 W

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BIOMEDICAL

ULTF-C198i

CHEST ULT FREEZER

The chest design is an economical choice, that preserves cold well due to the horizontal lid.

-20°C
-86°c



DIMENSIONS	VALUE
Outer Dimensions HxWxD	831x920x608
Inner Dimensions HxWxD	624x760x440
Weight Gross/Net, kg	80 / 63
Material inner cabinet	Painted Steel
Material outer cabinet	Painted Steel
Insulation thickness	80
Insulation type	Polyurethane with Cyclopentane
Mobility	Standard: 4 castors with brakes
Refrigerant, Type / gram	Nature R2 / 90
Variable Speed Compressor	No
Internal Air Distribution	Static
Number of probes	1

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	No
Probe failure alarm	Yes
Power failure alarm	Yes

STORAGE	VALUE
Volume, Gross/Net, L	198 / 189
Cryobox “2 capacity	117
2 ml vials capacity	11.700
Inner lids	Yes

FEATURES	VALUE
Lock	Yes
LED light	No
Battery Backup for Controller, 24h	Yes
VIP (Vacuum Insulated Panel)	No
Perimeter Heater	No
Porthole	Yes - Ø 12,5 mm
Dry Contact	Yes
Vacuum valve	No
Door	Solid

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VESTFROST SOLUTIONS

BIOMEDICAL

ULTF-C198i

CHEST ULT FREEZER

The chest design is an economical choice, that preserves cold well due to the horizontal lid.

Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	25°C
Max Humidity	% rh	65%

PERFORMANCE	UNIT	VALUE
All data in RT20°C		
Temperature Range	°C	-20 to -86
Uniformity in performance - difference between top and bottom	°C	+/- 0,9
Pull down time	Minutes	180min to -75°C
Hold over time	Minutes	63 min to -60°C
Noise	dB	55
Energy Saving Mode	kWh/24h	4,839 kWh/24h Set -70
Energy 24 hours	kWh/24h	5,994 kWh/24h Set -82
Energy year	kWh/year	2187,8 kWh/y Set -82°C
Instant Power Consumption	kW	PD 0,370-0,320/Stable 0,300
Heat Rejection	W	375
U-Value	W/m^2 K	0,2

COOLING COMPONENTS		VALUE
Refrigerant/Amount (gram)		Nature R 2/90gr
Number of compressors	pcs	1
Varibel speed compressor	Yes/No	No
Internal air distribution (type of)		Static
Evaporator Fan	Yes/No/Variable	No
Condenser Fan	Yes/No/Variable	Yes
Number of probes	pcs	1
Defrost	Yes/No	No

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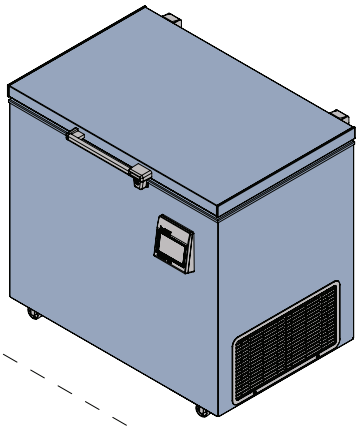
VESTFROST SOLUTIONS

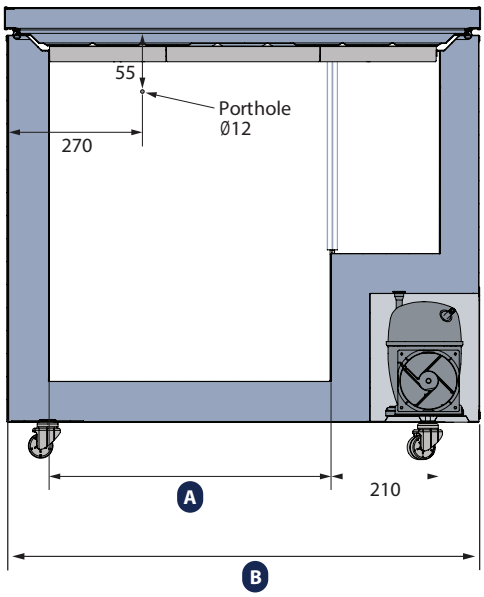
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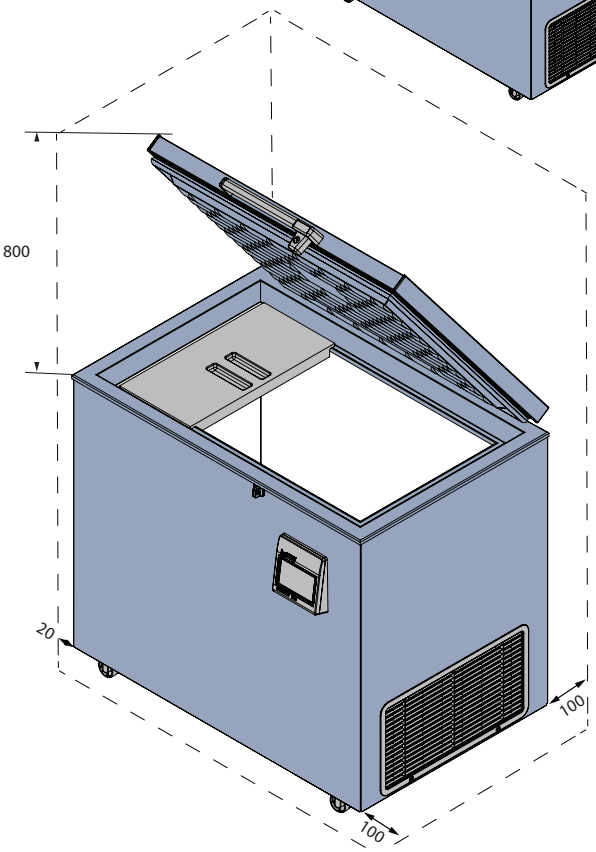
ULTF-C198i

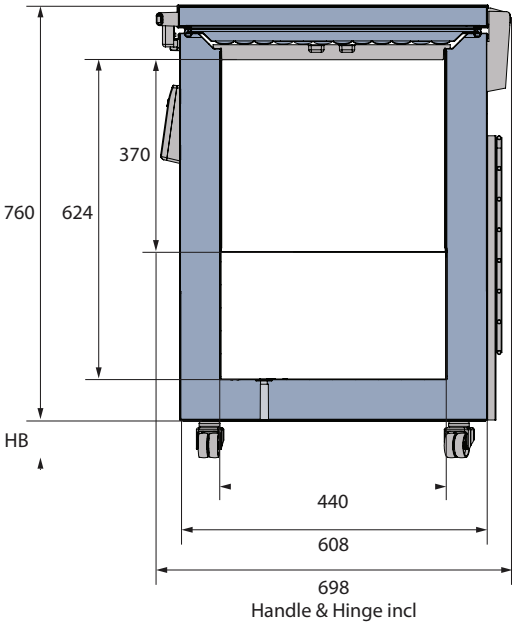
CHEST ULT FREEZER

The chest design is an economical choice, that preserves cold well due to the horizontal lid.









MODEL	A	B
ULTF-C198i	550	920
ULTF-C296i	890	1260
ULTF-C383i	1190	1560

All measurements in mm.

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



4 x Wheel

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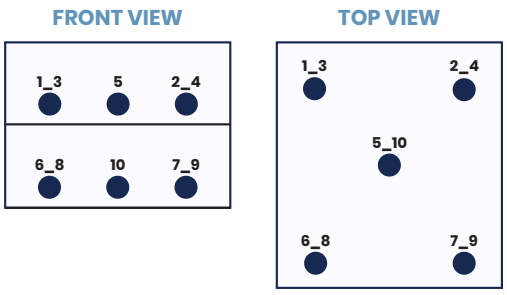
BIOMEDICAL

ULTF-C198i

CHEST ULT FREEZER

The chest design is an economical choice, that preserves cold well due to the horizontal lid.

SENSOR POSITION

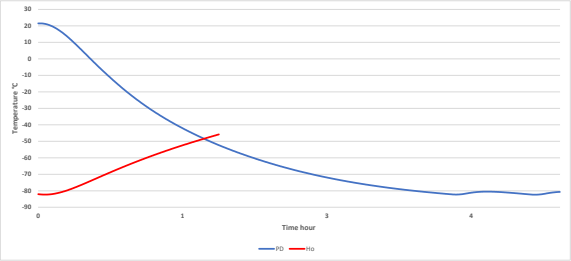


MODEL	ULTF-C198I
Test type	10-point test
Test enviroment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	Nature R 2

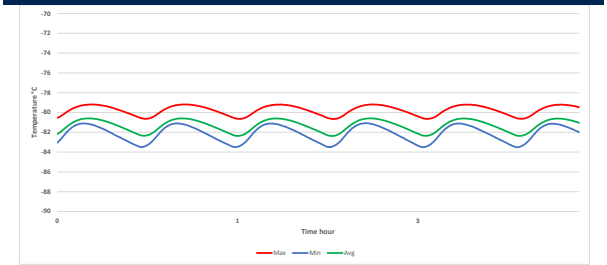
SENSOR TEMPERATURE

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Max	-81	-81,1	-81,1	-80,7	-79,2	-80,5	-81	-80,4	-80,8	-79,8
Avg.	-81,9	-82,1	-81,9	-81,6	-79,8	-81,1	-81,6	-81,1	-81,6	-80,6
Min.	-83,1	-83,5	-83	-82,9	-80,7	-82	-82,5	-82	-82,6	-81,7

WARM UP & PULL DOWN



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET

Avg. cabinet temperature	-81,3°C
Peak variation from set-point	+/- 1,2°C
Stability in avg.	0,9°C
1 min. door open recovery to -75°C avg. temperature	<1 min.
Cycle rate on/off	35 / 6 min.
Duty cycle	81,6%
Energy consumption - Normal mode	5,99 kWh/day
Energy consumption - Energy saving mode	4,83 kWh/day
Pull down time to -75°C avg. temperature	180 min.
Hold over time from -82°C to -60°C	63 min.
Heat rejection	375 W

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VESTFROST SOLUTIONS

ULTF-C296i

CHEST ULT FREEZER

The chest design is an economical choice, that preserves cold well due to the horizontal lid.



DIMENSIONS	
Outer Dimensions HxWxD, mm	831x1260x608
Inner Dimensions HxWxD, mm	624x1100x440
Weight Gross/Net, kg	100 / 78
Material inner cabinet	Painted Steel
Material outer cabinet	Painted Steel
Packaging weight, kg	22
Packaging dimensions HxWxD, mm	900x1313x725
Insulation thickness	80
Insulation type	Polyurethane with Cyclopentane
Mobility	Standard: 4 Casters with brakes
Refrigerant, Type / gram	Nature R2 / 143
Variable Speed Compressor	No
Internal Air Distribution	Static
Number of probes	1
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	No
Probe failure alarm	Yes
Power failure alarm	Yes
STORAGE	
Volume, Gross/Net, L	296 / 284
Cryobox "2 capacity	216
2 ml vials capacity	21.600
Inner lids	Yes
FEATURES	
Lock	Yes
LED light	No
Battery Backup for Controller, 24h	Yes
VIP (Vacuum Insulated Panel)	No
Door frame heater	No
Porthole	Yes - Ø 12,5 mm
Dry Contact	Yes
Vacuum valve	No
Door	Solid

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ULTF-C296i

CHEST ULT FREEZER

The chest design is an economical choice,
that preserves cold well due to the horizontal lid.

Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	25°C
Max Humidity	% rh	65%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	-20 to -86
Uniformity in performance - difference between top and bottom	°C	+/- 1,2
Pull down time	Minutes	130 min to -75°C
Hold over time	Minutes	72 min to -60°C
Noise	dB	55
Energy Saving Mode	kWh/24h	7,041 kWh/24h Set -70
Energy Consumption, kWh / 24h	kWh/24h	9,855 kWh/24h Set -82
Energy year	kWh/year	3597,1 kWh/y Set -82°C
Instant Power Consumption	kW	PD 0,710-0,550/Stable 0,520
Heat Rejection*	W	450
U-Value	W/m^2 K	0,2
COOLING COMPONENTS		
Refrigerant/Amount (gram)		Nature R 2/143gr
Number of compressors	pcs	1
Variable speed compressor	Yes/No	No
Internal air distribution (type of)		Static
Evaporator Fan	Yes/No/Variable	No
Condenser Fan	Yes/No/Variable	Yes
Number of probes	pcs	1
Defrost	Yes/No	No

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

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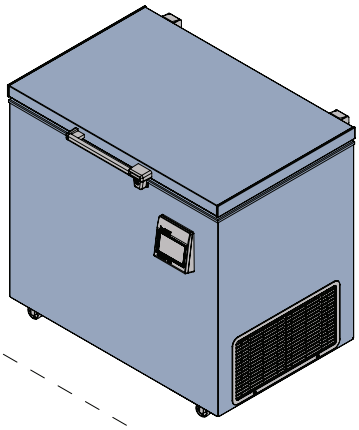
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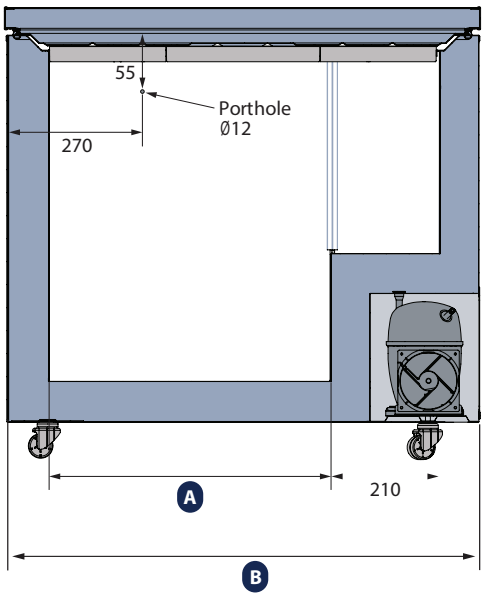
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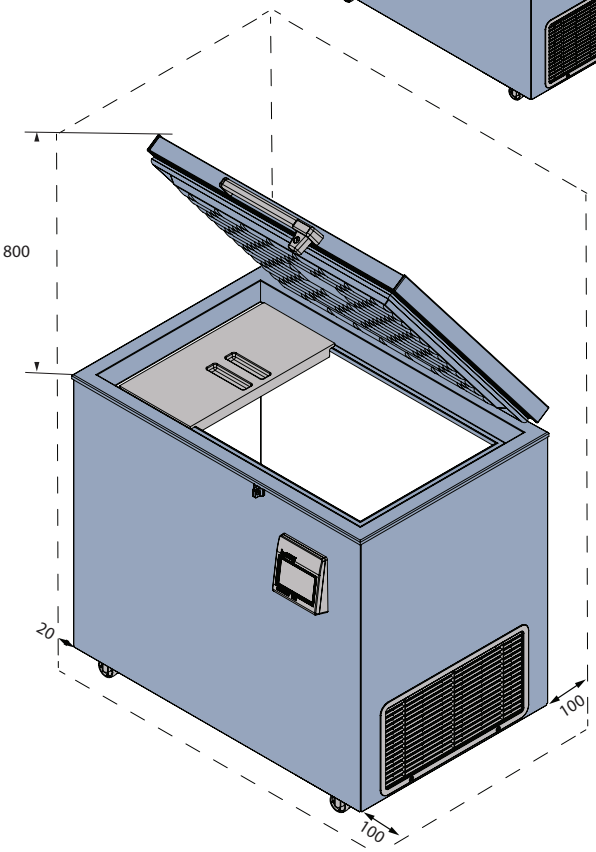
ULTF-C296i

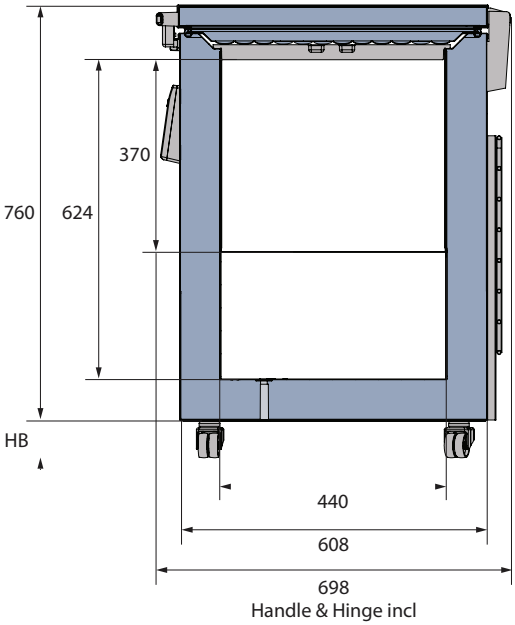
CHEST ULT FREEZER

The chest design is an economical choice,
that preserves cold well due to the horizontal lid.









MODEL	A	B
ULTF-C198i	550	920
ULTF-C296i	890	1260
ULTF-C383i	1190	1560

All measurements in mm.

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



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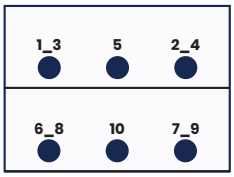
ULTF-C296i

CHEST ULT FREEZER

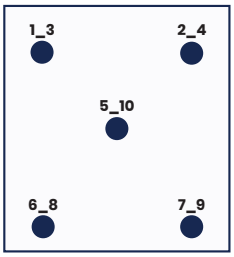
The chest design is an economical choice, that preserves cold well due to the horizontal lid.

SENSOR POSITION

FRONT VIEW



TOP VIEW



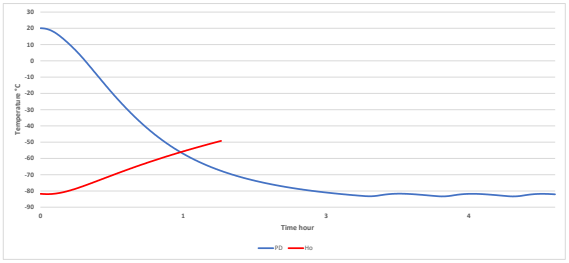
MODEL ULTF-C296I

Test type	10-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°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	Nature R 2

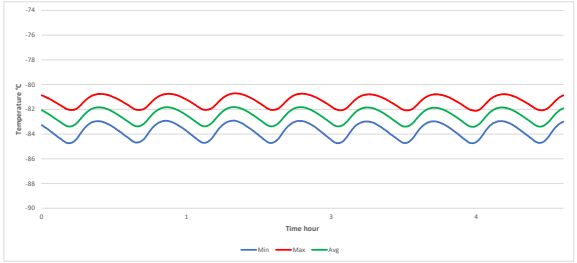
SENSOR TEMPERATURE

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Max	-81,5	-82,7	-82,9	-82,3	-82,1	-80,7	-81,6	-80,9	-82	-81,3
Avg.	-82,4	-83,5	-83,8	-83,2	-82,7	-81,4	-82,2	-81,5	-82,7	-82,1
Min.	-83,3	-84,5	-84,7	-84,2	-83,5	-82,1	-82,9	-82,3	-83,6	-83

WARM UP & PULL DOWN



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET

Avg. cabinet temperature	-82,5°C
Peak variation from set-point	+/- 1,2°C
Stability in avg.	0,8°C
1 min. door open recovery to -75°C avg. temperature	<1 min.
Cycle rate on/off	30 / 7 min.
Duty cycle	77,3%
Energy consumption - Normal mode	9,85 kWh/day
Energy consumption - Energy saving mode	7,04 kWh/day
Pull down time to -75°C avg. temperature	130 min.
Hold over time from -82°C to -60°C	72 min.
Heat rejection	642 W

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Updated 02/2026

ULTF-C383i

CHEST ULT FREEZER

The chest design is an economical choice, that preserves cold well due to the horizontal lid.



DIMENSIONS	
Outer Dimensions HxWxD, mm	831x1560x608
Inner Dimensions HxWxD, mm	624x1400x440
Weight Gross/Net, kg	112 / 86
Material inner cabinet	Painted Steel
Material outer cabinet	Painted Steel
Packaging weight, kg	26
Packaging dimensions HxWxD, mm	900x1613x725
Insulation thickness	80
Insulation type	Polyurethane with Cyclopentane
Mobility	Standard: 4 Casters with brakes
Refrigerant, Type / gram	Nature R2 / 161
Variable Speed Compressor	No
Internal Air Distribution	Static
Number of probes	1
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	No
Probe failure alarm	Yes
Power failure alarm	Yes
STORAGE	
Volume, Gross/Net, L	383 / 386
Cryobox "2 capacity	282
2 ml vials capacity	28.200
Inner lids	Yes
FEATURES	
Lock	Yes
LED light	No
Battery Backup for Controller, 24h	Yes
VIP (Vacuum Insulated Panel)	No
Door frame heater	No
Porthole	Yes - Ø 12,5 mm
Dry Contact	Yes
Vacuum valve	No
Door	Solid

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ULTF-C383i

CHEST ULT FREEZER

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that preserves cold well due to the horizontal lid.

Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	25°C
Max Humidity	% rh	65%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	-20 to -86
Uniformity in performance - difference between top and bottom	°C	+/- 1,1
Pull down time	Minutes	138min to -75°C
Hold over time	Minutes	69 min to -60°C
Noise	dB	55
Energy Saving Mode	kWh/24h	7,424 kWh/24h Set -70
Energy Consumption, kWh / 24h	kWh/24h	9,957 kWh/24h Set -82
Energy year	kWh/year	3634,3 kWh/y Set -82°C
Instant Power Consumption	kW	PD 0,810-0,600/Stable 0,532
Heat Rejection*	W	450
U-Value	W/m^2 K	0,2
COOLING COMPONENTS		
Refrigerant/Amount (gram)		Nature R 2/161gr
Number of compressors	pcs	1
Variable speed compressor	Yes/No	No
Internal air distribution (type of)		Static
Evaporator Fan	Yes/No/Variable	No
Condenser Fan	Yes/No/Variable	Yes
Number of probes	pcs	1
Defrost	Yes/No	No

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

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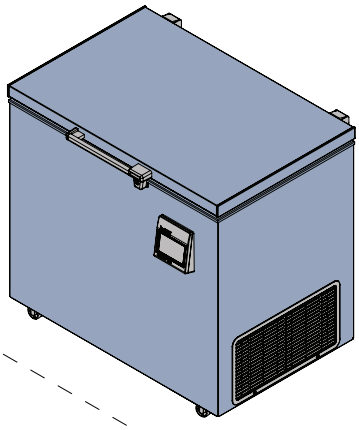
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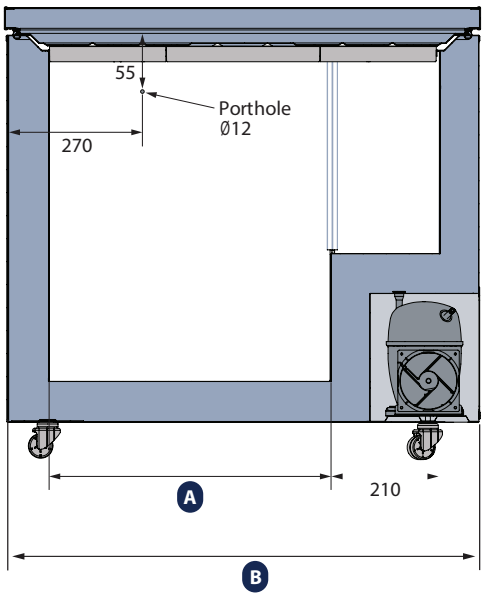
VESTFROST SOLUTIONS

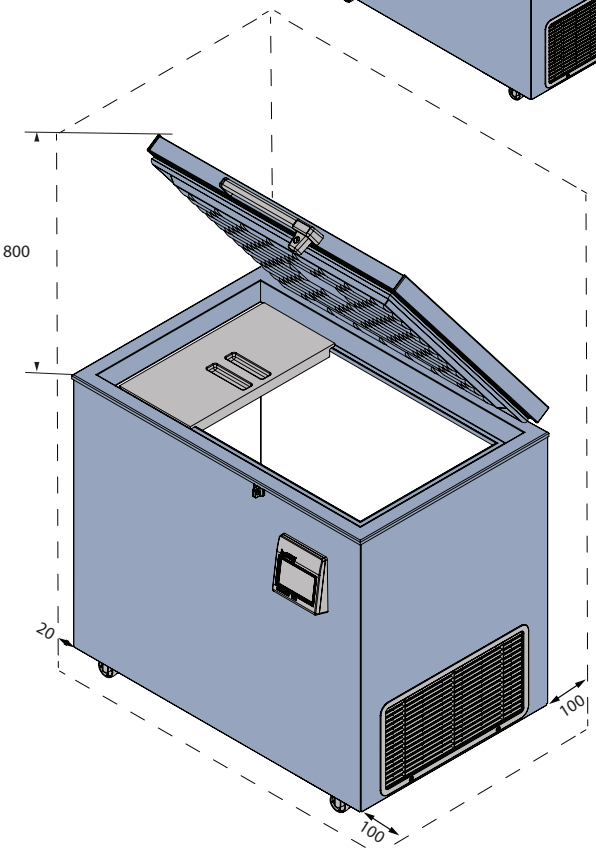
ULTF-C383i

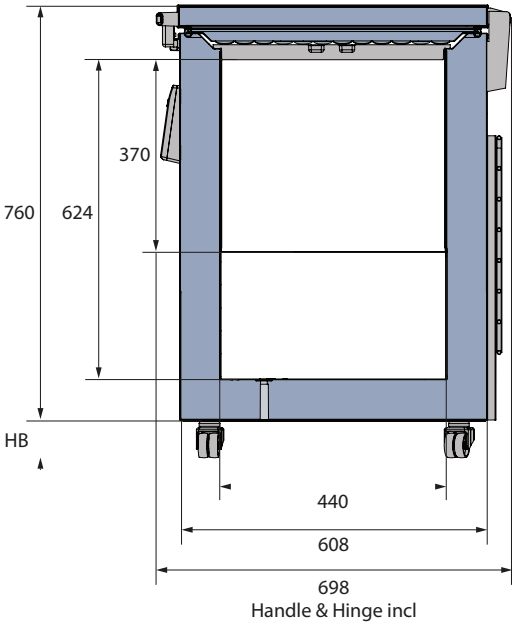
CHEST ULT FREEZER

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MODEL	A	B
ULTF-C198i	550	920
ULTF-C296i	890	1260
ULTF-C383i	1190	1560

All measurements in mm.

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



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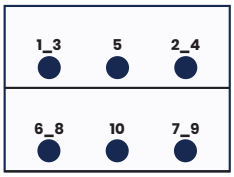
ULTF-C383i

CHEST ULT FREEZER

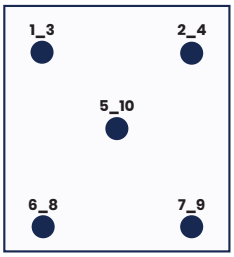
The chest design is an economical choice,
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SENSOR POSITION

FRONT VIEW



TOP VIEW



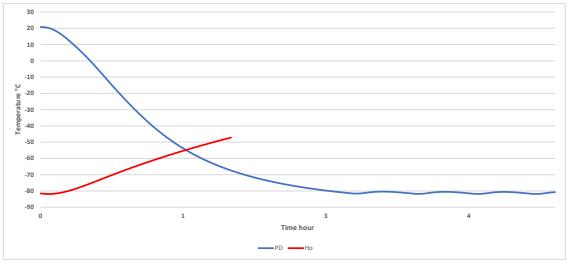
MODEL ULTF-C383I

Test type	10-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°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	Nature R 2

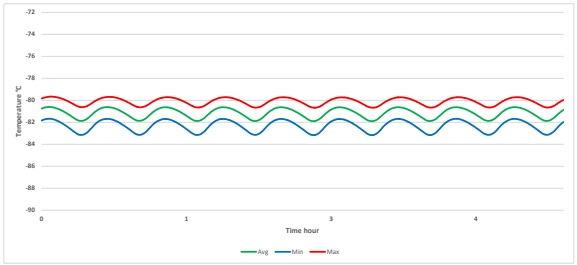
SENSOR TEMPERATURE

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Max	-80,9	-81,5	-81,7	-80	-80,3	-79,9	-79,7	-80,7	-81,7	-80,8
Avg.	-81,5	-82,2	-82,3	-80,8	-80,8	-80,4	-80,1	-81,2	-81,7	-80,8
Min.	-82,3	-83	-83,2	-81,6	-81,5	-81	-80,7	-81,8	-82,5	-81,6

WARM UP & PULL DOWN



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET

Avg. cabinet temperature	-81,2°C
Peak variation from set-point	+/- 1,1°C
Stability in avg.	0,6°C
1 min. door open recovery to -75°C avg. temperature	<1 min.
Cycle rate on/off	25 / 7 min.
Duty cycle	75%
Energy consumption - Normal mode	9,95 kWh/day
Energy consumption - Energy saving mode	7,42 kWh/day
Pull down time to -75°C avg. temperature	138 min.
Hold over time from -82°C to -60°C	69 min.
Heat rejection	670 W

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Updated 02/2026

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.

