

ULTF-C74i

BIOMEDICAL ULT FREEZER

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



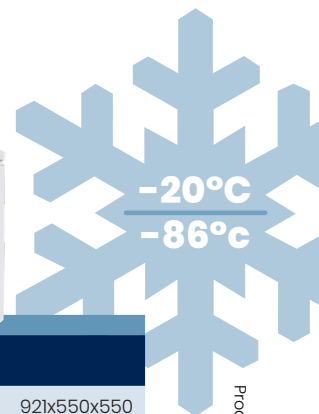
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DIMENSIONS

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

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SPECIFICATIONS		
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

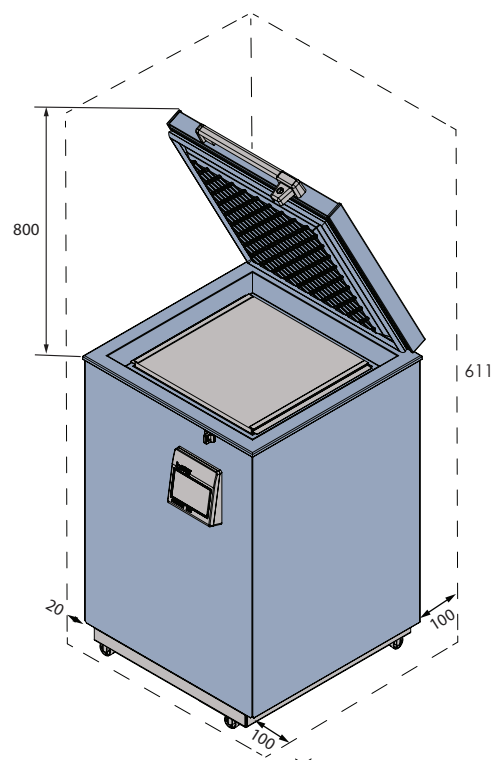
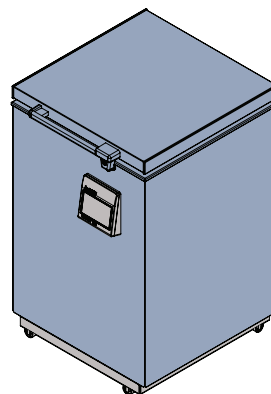
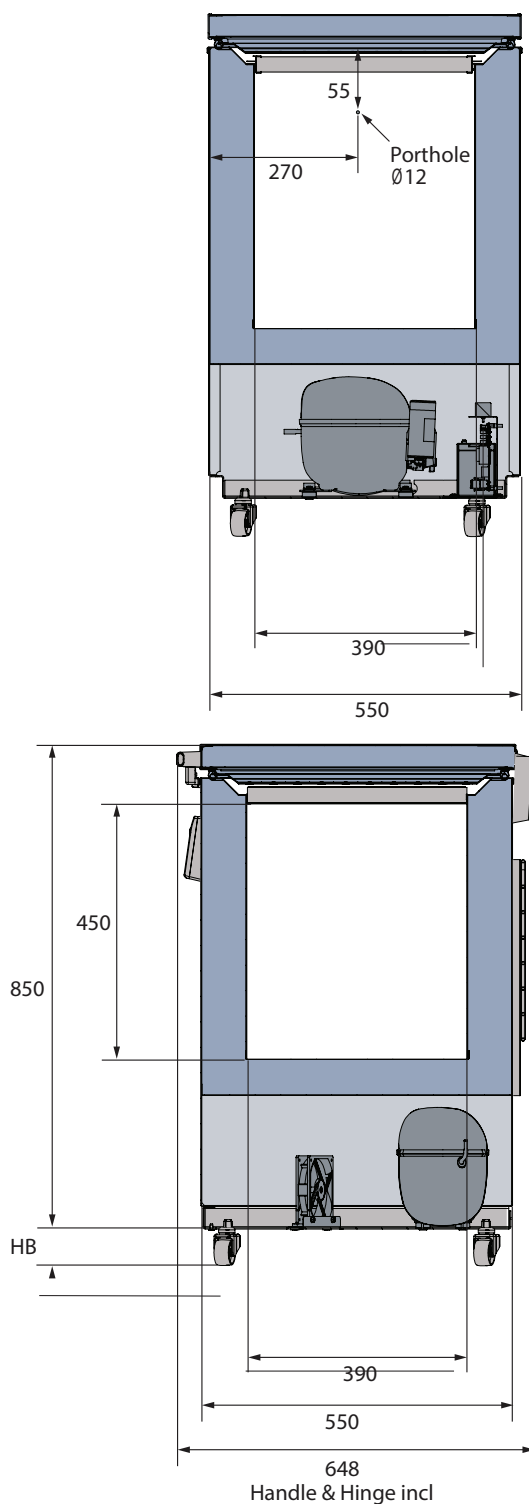
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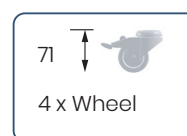
BIOMEDICAL ULT FREEZER

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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Updated 02/2026

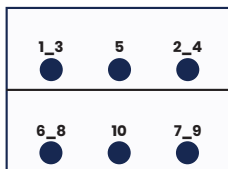
ULTF-C74i

BIOMEDICAL ULT FREEZER

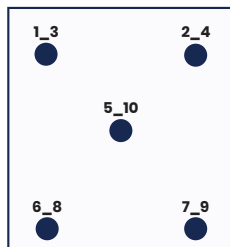
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SENSOR POSITION

FRONT VIEW



TOP VIEW



MODEL

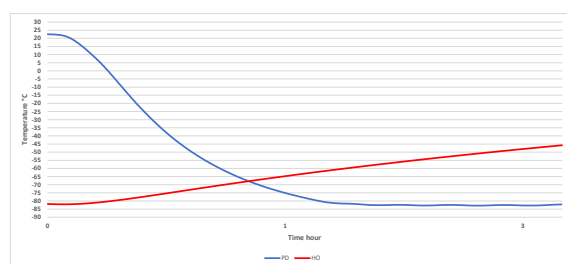
ULTF-C74i

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

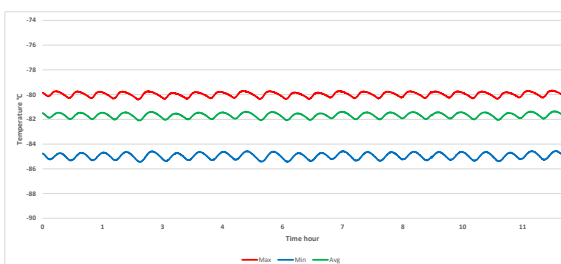
SENSOR TEMPERATURE

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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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



ULTF-C198i

CHEST ULT FREEZER

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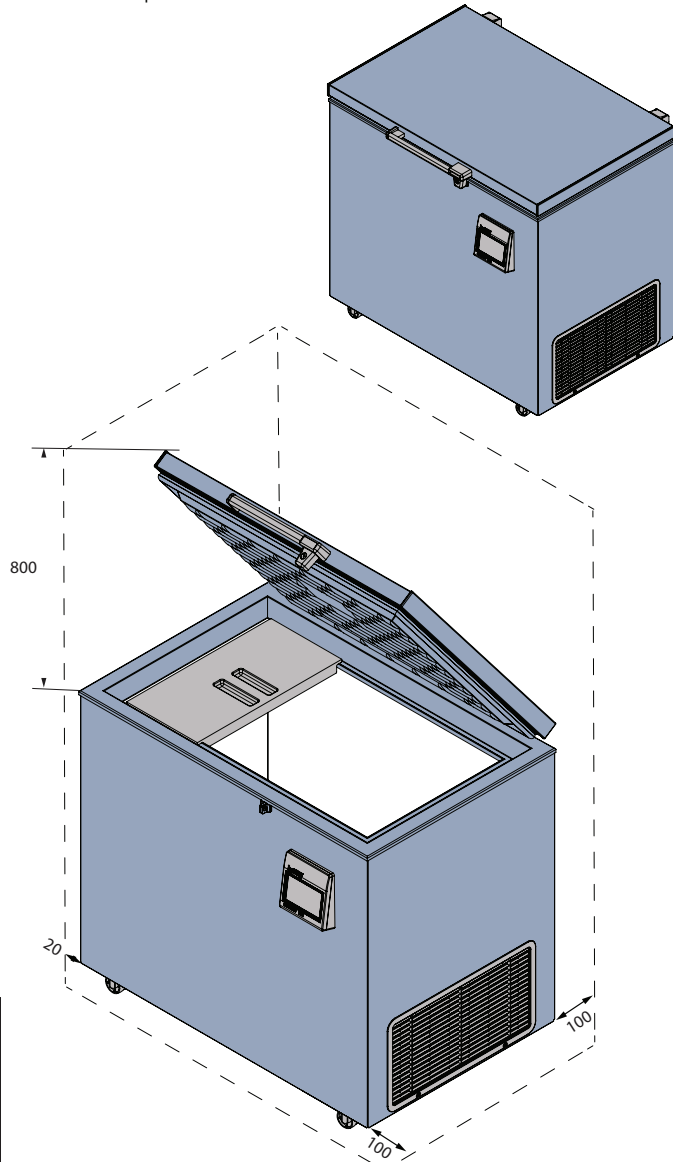
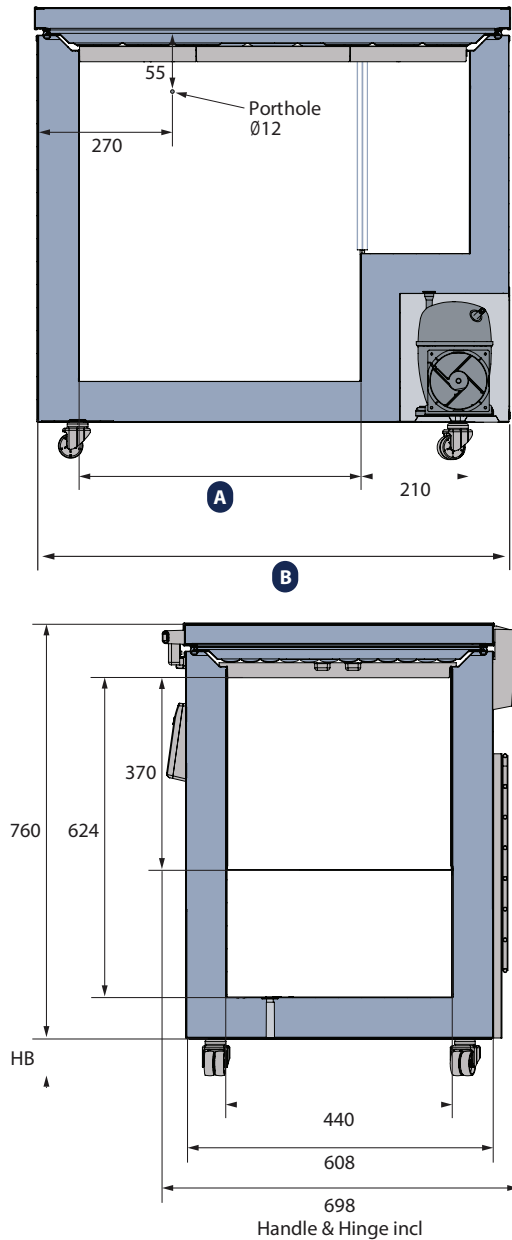
Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	25°C
Max Humidity	% rh	65%
PERFORMANCE	UNIT	VALUE
All data in RT20°C		
Temperature Range	°C	-20 to -86
Uniformity in performance - difference between top and bottom	°C	+/- 0,9
Pull down time	Minutes	180min to -75°C
Hold over time	Minutes	63 min to -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



ULTF-C198i

CHEST ULT FREEZER

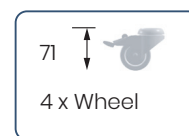
The chest design is an economical choice, that preserves cold well due to the horizontal lid.



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)



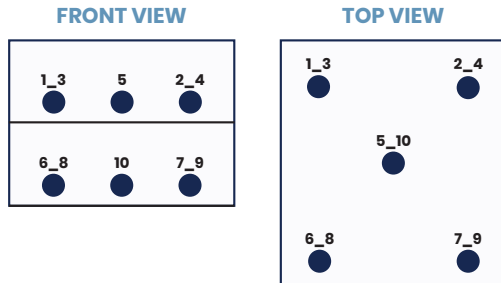


ULTF-C198i

CHEST ULT FREEZER

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SENSOR POSITION



MODEL

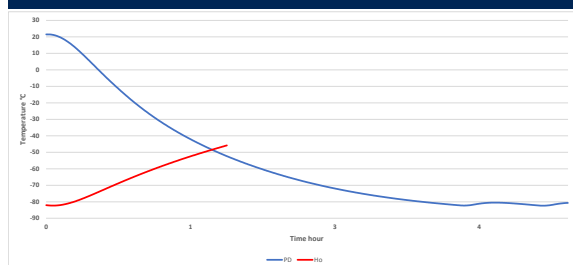
ULTF-C198i

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

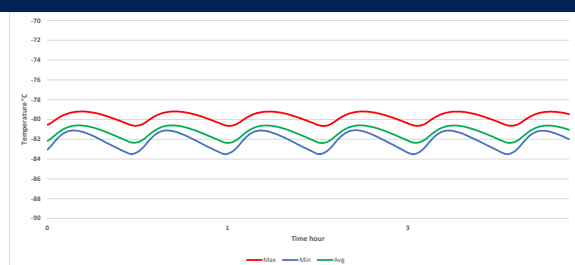
SENSOR TEMPERATURE

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

ULTF-C296i

CHEST ULT FREEZER

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-20°C
-86°C

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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

ULTF-C296i

CHEST ULT FREEZER

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

SPECIFICATIONS		
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

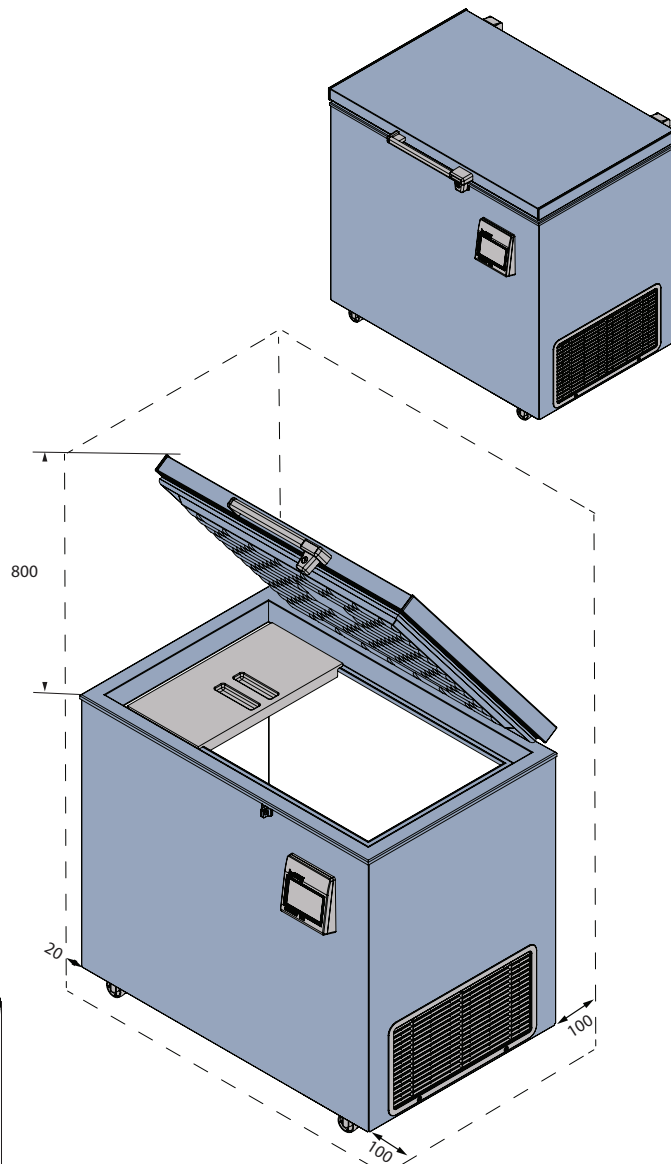
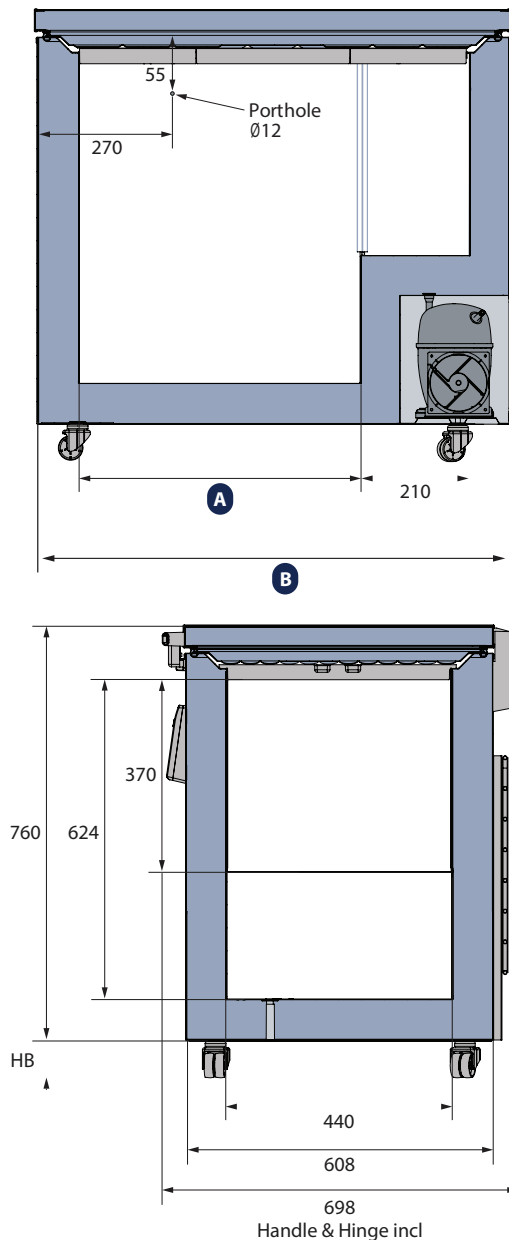
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ULTF-C296i

CHEST ULT FREEZER

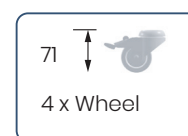
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MODEL	A	B
ULTF-C198i	550	920
ULTF-C296i	890	1260
ULTF-C383i	1190	1560

All measurements in mm.

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



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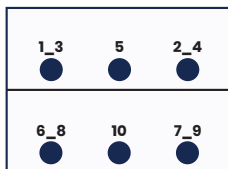
ULTF-C296i

CHEST ULT FREEZER

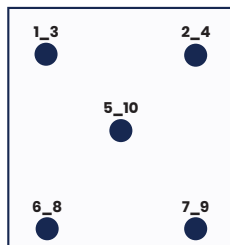
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SENSOR POSITION

FRONT VIEW



TOP VIEW



MODEL

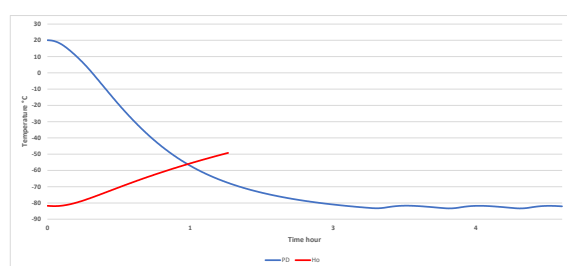
ULTF-C296i

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

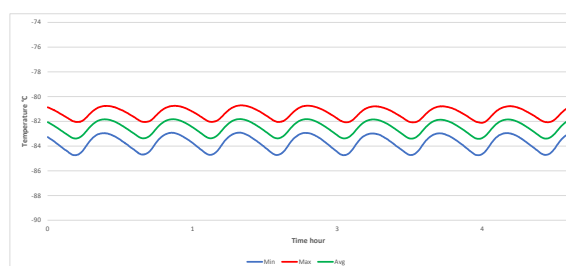
SENSOR TEMPERATURE

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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ULTF-C383i

CHEST ULT FREEZER

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Protection for storage
C1010 350 AA 100 TH



-20°C
-86°C

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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

ULTF-C383i

CHEST ULT FREEZER

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SPECIFICATIONS		
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

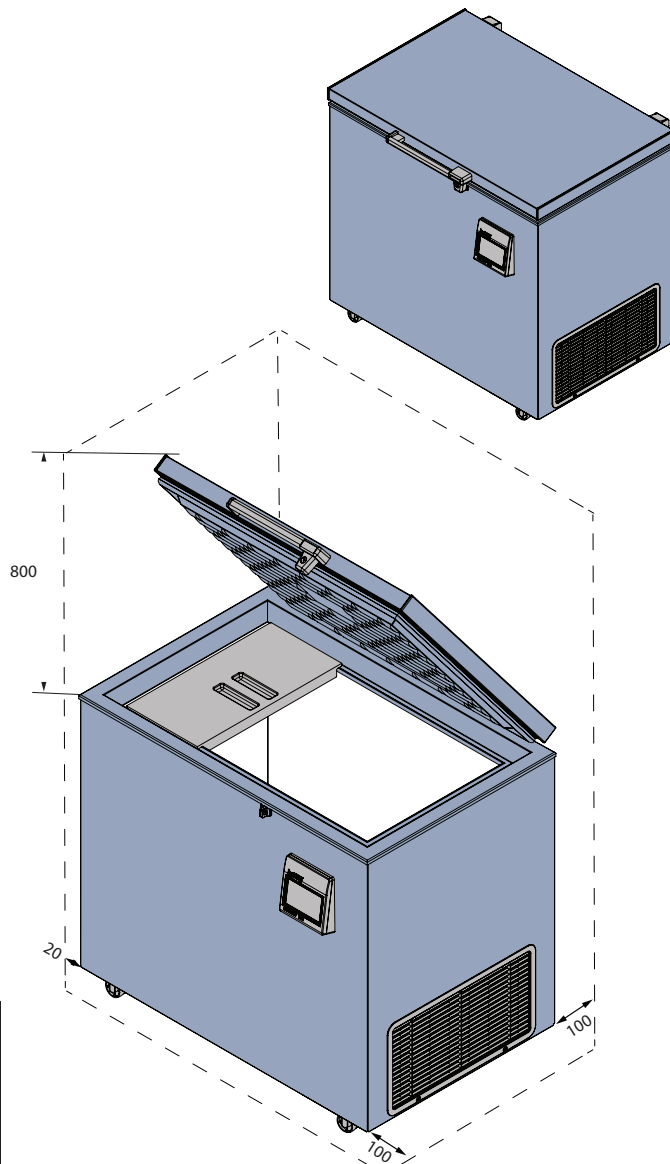
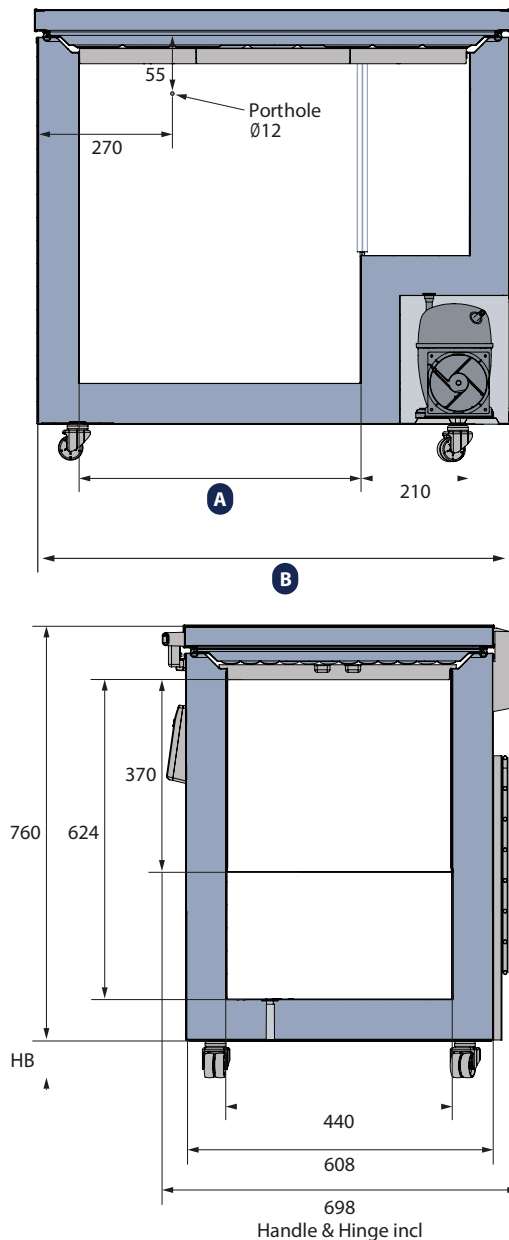
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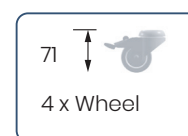
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MODEL	A	B
ULTF-C198i	550	920
ULTF-C296i	890	1260
ULTF-C383i	1190	1560

All measurements in mm.

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



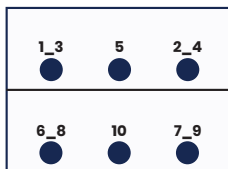
ULTF-C383i

CHEST ULT FREEZER

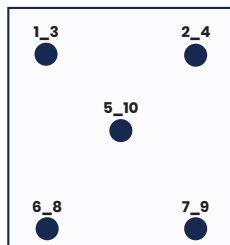
The chest design is an economical choice, that preserves cold well due to the horizontal lid.

SENSOR POSITION

FRONT VIEW



TOP VIEW



MODEL

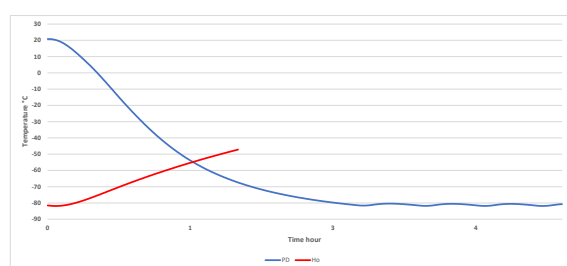
ULTF-C383i

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

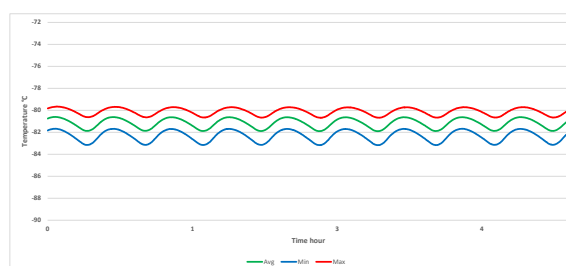
SENSOR TEMPERATURE

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

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