



BIOMEDICAL

# REFRIGERATORS

TEMPERATURE RANGE +2°C to +20°C

DIN  
13277



CONSTRUCTION	R-90i	R-138i	R-427i
Outer Dimensions, HxWxD	672x595x642	825x595x642	2002x595x642
Inner Dimensions, HxWxD	481x475x425	676x475x425	1850x475x425
Weight Gross/Net, kg	48 / 38	56 / 45	88 / 74
Material Inner Cabinet	ABS	ABS	ABS
Material Outer Cabinet	Painted Steel	Painted Steel	Painted Steel
Insulation Thickness, mm	50	50	50
Insulation Type	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane
Air Distribution	Dynamic	Dynamic	Dynamic
Mobility	Standard: Adjustable Feet Option: Castors	Standard: Adjustable Feet Option: Castors	Standard: Adjustable Feet Option: Castors
Refrigerant, Type / gram	R600a / 39	R600a / 47	R600a / 60
Variable Speed Compressor	Yes - Adaptive Cooling Technology	Yes - Adaptive Cooling Technology	Yes - Adaptive Cooling Technology
Number of Probes	4	4	4
STORAGE			
Volume, Gross/net, L	90 / 76	138 / 117	427 / 361
Shelves, Full/half	1/1	2/1	5/1
Shelf material	Perforated Alu	Perforated Alu	Perforated Alu
Max Loading pr. Shelf, kg	20	20	20
PERFORMANCE & OPERATION			
Temperature Range, C°	+2 to +20	+2 to +20	+2 to +20
Voltage, V	230	230	230
Frequency, Hz	50 / 60	50 / 60	50 / 60
Max Ambient, °C	35	35	35
Max Humidity, °C	75	75	75
Noise, dB	46	44	40
Energy Consumption, kWh / 24h	0,290	0,334	0,438
Instant Power Consumption	PD 0,064 / Stable 0,025	PD 0,080 / Stable 0,025	PD 0,075 / Stable 0,025
Heat Rejection	40	46	61
K-Value	0,58	0,59	0,44
Defrost	Automatic	Automatic	Automatic

## SHARED ABILITIES

FEATURES	
Lock	Yes
LED Light	Yes
Battery Backup for Controller, 24h	Yes
Safety Thermostat	Yes
Porthole	Yes - Ø 20mm
Dry Contact	Yes
Reference bottle	Yes
Door	Solid
Door Features	Automatic: Closure < 90° - Hold > 90°
Door Reversibility	Yes

CONTROLLER & ALARMS	
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



# REFRIGERATORS

TEMPERATURE RANGE +2°C to +20°C

DIN  
13277



BIOMEDICAL



CONSTRUCTION	R-90i Glass	R-138i Glass	R-427i Glass
Outer Dimensions, HxWxD	672x595x642	825x595x642	2002x595x642
Inner Dimensions, HxWxD	481x475x425	676x475x425	1850x475x425
Weight Gross/Net, kg	52 / 42	59 / 48	100 / 86
Material Inner Cabinet	ABS	ABS	ABS
Material Outer Cabinet	Painted Steel	Painted Steel	Painted Steel
Insulation Thickness, mm	50	50	50
Insulation Type	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane
Air Distribution	Dynamic	Dynamic	Dynamic
Mobility	Standard: Adjustable Feet Option: Castors	Standard: Adjustable Feet Option: Castors	Standard: Adjustable Feet Option: Castors
Refrigerant, Type / gram	R600a / 39	R600a / 47	R600a / 60
Variable Speed Compressor	Yes - Adaptive Cooling Technology	Yes - Adaptive Cooling Technology	Yes - Adaptive Cooling Technology
Number of Probes	4	4	4
STORAGE			
Volume, Gross/net, L	90 / 76	138 / 117	427 / 361
Shelves, Full/half	1 / 1	2 / 1	5 / 1
Shelf material	Perforated Alu	Perforated Alu	Perforated Alu
Max Loading pr. Shelf, kg	20	20	20
PERFORMANCE & OPERATION			
Temperature Range, C°	+2 to +20	+2 to +20	+2 to +20
Voltage, V	230	230	230
Frequency, Hz	50 / 60	50 / 60	50 / 60
Max Ambient, °C	32	32	32
Max Humidity, °C	65	65	65
Noise, dB	46	44	40
Energy Consumption, kWh / 24h	0,336	0,433	0,499
Instant Power Consumption	PD 0,068 / Stable 0,028	PD 0,082 / Stable 0,028	PD 0,08 / Stable 0,025
Heat Rejection	50	55	83
K-Value	0,69	0,69	0,70
Defrost	Automatic	Automatic	Automatic

## SHARED ABILITIES

FEATURES	
Lock	Yes
LED Light	Yes
Battery Backup for Controller, 24h	Yes
Safety Thermostat	Yes
Porthole	Yes - Ø 20mm
Dry Contact	Yes
Reference bottle	Yes
Door	Glass
Door Features	Automatic: Closure < 90° - Hold > 90°
Door Reversibility	Yes

CONTROLLER & ALARMS	
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

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# ESSENTIAL LINE

TEMPERATURE RANGE +2°C to +10°C

DIN  
13277



CONSTRUCTION	R-281 Essential	R-350 Essential
Outer Dimensions, HxWxD	1560x595x595	1860x595x595
Inner Dimensions, HxWxD	1282x500x415	1550x500x415
Weight Gross/Net, kg	73 / 71	81 / 79
Material Inner Cabinet	White/PS	White/PS
Material Outer Cabinet	Painted steel	Painted steel
Insulation Thickness, mm	42	42
Insulation Type	Polyurethane with cyclopentane	Polyurethane with cyclopentane
Air Distribution	Dual Air Stream	Dual Air Stream
Mobility	2 feet front, 2 wheels back	2 feet front, 2 wheels back
Refrigerant, Type / gram	R600a / 50g	R600a / 50g
Variable Speed Compressor	No	No
Number of Probes	2	2
STORAGE		
Volume, Gross/net, L	281	350
Shelves, Full/half	4Full / 1Half	5Full / 1Half
Shelf material	Glass	Glass
Max Loading pr. Shelf, kg	25	25
PERFORMANCE & OPERATION		
Temperature Range, C°	+2 to +10 °C	+2 to +10°C
Voltage, V	230 V	230 V
Frequency, Hz	50 Hz	50 Hz
Max Ambient, °C	32°C	32°C
Max Humidity, °C	65%	65%
Noise, dB	45 dB	45 dB
Energy Consumption, kWh / 24h	0,826kWh/24h set 5°C	0,962kWh/24h set 5°C
Instant Power Consumption	PD 0,2 /Stable 0,18	PD 0,18 /Stable 0,16
Heat Rejection	-	-
Defrost	Yes - automatic	Yes - automatic

## SHARED ABILITIES

FEATURES	
Lock	Yes
LED Light	Yes
Battery Backup for Controller, 24h	Yes
Safety Thermostat	No
Porthole	Yes - Ø 12,7 mm
Dry Contact	No
Reference bottle	No
Door	Glass
Door Closure	Yes
Door Reversibility	Yes

CONTROLLER & ALARMS	
Controller	Danfoss
Controller language	No language. only 3 digits
USB Connection	No
Logging	-
Temperature Graph	No
High/Low Temp. Alarm	Yes
Open Door Alarm	Yes
Probe Failure Alarm	Yes
Power Failure Alarm	-



# ULTF LONG TERM

TEMPERATURE RANGE -40°C to -90°C



CONSTRUCTION	ULTF-500	ULTF-700
Outer Dimensions, HxWxD	1966x826x938	1966x1110x938
Inner Dimensions, HxWxD	1300x606x605	1300x890x605
Weight Gross/Net, kg	247	289
Material Inner Cabinet	Stainless steel	Stainless steel
Permitted load [kg]	200	200
Permitted load of individual compartment (kg)	50	50
Wall clearance back [mm]	100	100
Wall clearance sidewise [mm]	250	250
Mobility	4 wheels, 2 w. lock	4 wheels, 2 w. lock
Refrigerant, Type	R290/R170	R290/R170
STORAGE		
Volume, Gross/net, L	477	700
Shelves included/max. no. of shelves	3/13	3/13
PERFORMANCE & OPERATION		
Temperature Range, C°	-90 to -40	-90 to -40
Voltage, V	230	230
Frequency, Hz	50	50
Nominal power, kW	1,6	1,6
Unit fuse, A	10	10
Noise, dB	47	47
Energy Consumption, kWh / 24h	7,9	8,1
Power plug standard	2m C13 CEE 7/7	2m C13 CEE 7/7

## SHARED ABILITIES

FEATURES	
Compressor cooling	cascade
Innovative door gasket	reduce ice built-up
Detachable inner doors	stainless steel
Zero-voltage alarm contact	in-house alarm system
Internal data logger	USB read out
Ethernet interface	yes
Access ports	2x Ø28mm rear
Shipping pallet	without forklift
Packaging	Recyclable
Powder-coating	Solvent free
Recovery time after 1 min door opening (to -80°C)	~ 18 minutes (empty)

Also available in 110 V / 60 Hz, UL standards.



# FREEZERS

TEMPERATURE RANGE -5°C to -25°C

DIN  
13277



CONSTRUCTION	F-90i	F-138i	F-427i
Outer Dimensions, HxWxD	672x595x642	825x595x642	2002x595x642
Inner Dimensions, HxWxD	481x475x425	676x475x425	1680x475x425
Weight Gross/Net, kg	54 / 44	60 / 49	99 / 85
Material Inner Cabinet	ABS	ABS	ABS
Material Outer Cabinet	Painted Steel	Painted Steel	Painted Steel
Insulation Thickness, mm	50	50	50
Insulation Type	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane
Air Distribution	Dynamic	Dynamic	Dynamic
Mobility	Standard: Adjustable Feet Option: Castors	Standard: Adjustable Feet Option: Castors	Standard: Adjustable Feet Option: Castors
Refrigerant, Type / gram	R600a / 38	R600a / 43	R290 / 80
Variable Speed Compressor	Yes - Adaptive Cooling Technology	Yes - Adaptive Cooling Technology	Yes - Adaptive Cooling Technology
Number of Probes	2	2	2
STORAGE			
Volume, Gross/net, L	90 / 76	138 / 117	427 / 335
Shelves, Full/half	1/1	2/1	5/1
Shelf material	Perforated Alu	Perforated Alu	Perforated Alu
Max Loading pr. Shelf, kg	20	20	20
PERFORMANCE & OPERATION			
Temperature Range, C°	-5 to -25	-5 to -25	-5 to -25
Voltage, V	230	230	230
Frequence, Hz	50 / 60	50 / 60	50 / 60
Max Ambient, °C	35	35	30
Max Humidity, °C	65	65	65
Noise, dB	40	45	50
Energy Consumption, kWh / 24h	1,1	1,419	3,773
Instant Power Consumption	PD 0,120 / Stable 0,046	PD 0,120 / Stable 0,052	PD 0,220 / Stable 0,150
Heat Rejection	110	120	260
K-Value	0,59	0,59	0,44
Defrost	Automatic	Automatic	Automatic

## SHARED ABILITIES

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

CONTROLLER & ALARMS	
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

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# ULT FREEZERS

TEMPERATURE RANGE -20°C to -86°C



BIOMEDICAL



CONSTRUCTION	ULTF-7i	ULTF-37i	ULTF-51i	ULTF-91i
<b>Outer Dimensions, HxWxD</b>	732x457x650	631x630x675	836x699x720	836x947x720
<b>Outer Depth, incl. handle</b>	720	745	790	790
<b>Inner Dimensions, HxWxD</b>	310x150x145	433x439x271	310x360x445	310x640x445
<b>Weight Gross/Net, kg</b>	83 / 63	70 / 59	108 / 82	137 / 102
<b>Material Inner Cabinet</b>	Stainless steel	Stainless Steel	Stainless steel	Stainless steel
<b>Material Outer Cabinet</b>	Painted Steel	Painted Steel	Painted Steel	Painted Steel
<b>Insulation Thickness, mm</b>	120	80	120	120
<b>Insulation Type</b>	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane
<b>Air Distribution</b>	Yes	No	Yes	No
<b>Mobility</b>	4 x adjustable feet	Standard: Adjustable Feet Option: Castors	2 x adjustable feet, 2 x castors	3 x adjustable feet, 3 x castors
<b>Refrigerant, Type / gram</b>	Nature R	Nature R2 / 96	Nature R	Nature R
<b>Variable Speed Compressor</b>	Yes	Yes - Adaptive Cooling Technology	Yes	Yes
<b>Internal Air Distribution</b>	Static	Static	Static	Static
<b>Number of Probes</b>	2	2	2	2
<b>STORAGE</b>				
<b>Volume, L</b>	7	37	50	88
<b>PERFORMANCE &amp; OPERATION</b>				
<b>Temperature Range, C°</b>	-20 to -86	-20 to -86	-20 to -86	-20 to -86
<b>Voltage, V</b>	100-240V	100-240V	100-240V	100-240V
<b>Frequence, Hz</b>	50 / 60	50 / 60	50 / 60	50 / 60
<b>Max Ambient, °C</b>	32	32	32	32
<b>Max Humidity, °C</b>	65	65	65	65
<b>Noise, dB</b>	< 48	46	< 48	< 48
<b>Energy Consumption, kWh / 24h</b>	2,94 kWh/24h Set -80	3,251 kWh/24h Set -82	4,34 kWh/24h Set -80	5,22 kWh/24h Set -80
<b>Instant Power Consumption</b>	PD 0,300/Stable 0,190	PD 0,550/Stable 0,270	PD 0,600/Stable 0,280	PD 0,650/Stable 0,280
<b>Heat Rejection</b>	N/A	306	N/A	N/A
<b>U-Value</b>	N/A	0,19	N/A	N/A
<b>Defrost</b>	No	Manual	No	No

## SHARED ABILITIES

FEATURES	
<b>Lock</b>	Yes
<b>LED Light</b>	No
<b>Battery Backup for Controller, 24h</b>	Yes
<b>VIP (Vaccuum Insulated Panel)</b>	Yes
<b>Perimeter Heater</b>	Electric
<b>Porthole</b>	Yes - Ø 20mm
<b>Dry Contact</b>	Yes
<b>Vacuum Valve</b>	Yes
<b>Door</b>	Solid
<b>Door Reversibility</b>	No

CONTROLLER & ALARMS	
<b>Controller</b>	i-Care, Touch screen
<b>Controller language</b>	EN, DE, FR
<b>USB Connection</b>	Yes
<b>Logging</b>	Data & Alarms
<b>Temperature Graph</b>	Yes
<b>High/Low Temp. Alarm</b>	Yes
<b>Open Door Alarm</b>	Yes
<b>Probe Failure Alarm</b>	Yes
<b>Power Failure Alarm</b>	Yes
<b>Condenser Fan Alarm</b>	Yes

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# CHEST FREEZERS

TEMPERATURE RANGE -25°C to -45°C



CONSTRUCTION	VT146	VT206	VT306	VT406	VT546
<b>Outer Dimensions, HxWxD</b>	885x725x605	885x923x605	885x1265x605	885x1562x605	932x1664x665
<b>Inner Dimensions, HxWxD</b>	635x560x440	635x760x440	635x1100x440	635x1400x440	670x1500x500
<b>Weight Gross/Net, kg</b>	55,4 / 51,4	63,4 / 58,4	76,8 / 71,1	83,2 / 77,2	92,4 / 108
<b>Material Inner Cabinet</b>	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
<b>Material Outer Cabinet</b>	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
<b>Insulation Thickness, mm</b>	80	80	80	80	80
<b>Insulation Type</b>	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane
<b>Mobility / Castors</b>	Yes	Yes	Yes	Yes	Yes
<b>Refrigerant, Type</b>	R290	R290	R290	R290	R290
<b>Number of compressors</b>	1	1	1	1	1
<b>Internal Air Distribution</b>	Static	Static	Static	Static	Static
<b>Number of Probes</b>	1	1	1	1	1
STORAGE					
<b>Volume, Gross/net, L</b>	140	198	296	384	495
<b>Baskets</b>	1	1	1	1	3
<b>Basket material</b>	Steel coated with plastic powder	Steel coated with plastic powder	Steel coated with plastic powder	Steel coated with plastic powder	Steel coated with plastic powder
<b>Inner lids</b>	No	No	No	No	No
PERFORMANCE & OPERATION					
<b>Temperature Range, C°</b>	-25 to -45	-25 to -45	-25 to -45	-25 to -45	-25 to -45
<b>Frequency, Hz</b>	50	50	50	50	50
<b>Max Ambient, °C</b>	30	30	30	30	30
<b>Max Humidity, °C</b>	55	55	55	55	55
<b>Energy Consumption, kWh / 24h</b>	v. 20 °C, 1,865	v. 20 °C, 3,14		v. 26 °C, 4,09	v. 20 °C, 4,158
<b>Defrost</b>	No	No	No	No	No

## SHARED ABILITIES

FEATURES	
<b>Lock</b>	Yes
<b>LED Light</b>	No
<b>Battery Backup for Controller, 24h</b>	No
<b>Porthole</b>	Yes - Ø 12 mm
<b>Dry Contact</b>	No
<b>Door</b>	Solid
<b>Door Reversibility</b>	N/A

CONTROLLER & ALARMS	
<b>Controller</b>	XR30CX
<b>Controller language</b>	No language - only 3 digits
<b>USB Connection</b>	No
<b>Logging</b>	No
<b>Temperature Graph</b>	No
<b>High/Low Temp. Alarm</b>	Yes
<b>Open Door Alarm</b>	No
<b>Probe Failure Alarm</b>	Yes
<b>Power Failure Alarm</b>	No

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# CHEST FREEZERS

TEMPERATURE RANGE -40°C to -60°C



BIOMEDICAL



CONSTRUCTION	VT75	VT147	VT207	VT307	VT407	VT547
<b>Outer Dimensions, HxWxD</b>	870x555x555	885x725x605	885x923x605	885x1265x605	885x1562x605	932x1664x665
<b>Inner Dimensions, HxWxD</b>	465x390x390	635x560x440	635x760x440	635x1100x440	635x1400x440	670x1500x500
<b>Weight Gross/Net, kg</b>	48,2 / 42,2	59,8 / 55,8	62 / 57	75,8 / 70,8	86,4 / 80,4	92,4 / 108
<b>Material Inner Cabinet</b>	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
<b>Material Outer Cabinet</b>	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
<b>Insulation Thickness, mm</b>	80	80	80	80	80	80
<b>Insulation Type</b>	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane
<b>Mobility / Castors</b>	No	Yes	Yes	Yes	Yes	Yes
<b>Refrigerant, Type</b>	Nature R	Nature R	Nature R	Nature R	Nature R	Nature R
<b>Number of compressors</b>	1	1	1	1	1	1
<b>Internal Air Distribution</b>	Static	Static	Static	Static	Static	Static
<b>Number of Probes</b>	1	1	1	1	1	1
<b>STORAGE</b>						
<b>Volume, Gross/net, L</b>	74	140	198	296	384	495
<b>Baskets</b>	1	1	1	3	4	3
<b>Basket material</b>	Steel coated with plastic powder	Steel coated with plastic powder	Steel coated with plastic powder	Steel coated with plastic powder	Steel coated with plastic powder	Steel coated with plastic powder
<b>Inner lids</b>	No	No	No	No	No	No
<b>PERFORMANCE &amp; OPERATION</b>						
<b>Temperature Range, C°</b>	-40 to -60	-40 to -60	-40 to -60	-40 to -60	-40 to -60	-40 to -60
<b>Frequence, Hz</b>	50	50	50	50	50	50
<b>Max Ambient, °C</b>	30	30	30	30	30	30
<b>Max Humidity, °C</b>	55	55	55	55	55	55
<b>Energy Consumption, kWh / 24h</b>		v. 20 °C, 3,707	v. 20 °C, 3,12	v. 20 °C, 5,562	v. 20 °C, 7,077	v. 20 °C, 5,775
<b>Defrost</b>	No	No	No	No	No	No

## SHARED ABILITIES

FEATURES	
<b>Lock</b>	Yes
<b>LED Light</b>	No
<b>Battery Backup for Controller, 24h</b>	No
<b>Porthole</b>	Yes - Ø 12 mm
<b>Dry Contact</b>	No
<b>Door</b>	Solid
<b>Door Reversibility</b>	N/A

CONTROLLER & ALARMS	
<b>Controller</b>	XR30CX
<b>Controller language</b>	No language - only 3 digits
<b>USB Connection</b>	No
<b>Logging</b>	No
<b>Temperature Graph</b>	No
<b>High/Low Temp. Alarm</b>	Yes
<b>Open Door Alarm</b>	No
<b>Probe Failure Alarm</b>	Yes
<b>Power Failure Alarm</b>	No

Products and specifications are subject to change resulting from product development. Version 1.00





# CHEST ULT

TEMPERATURE RANGE -20°C to -86°C



BIOMEDICAL



CONSTRUCTION	ULTF-C74i	ULTF-C198i	ULTF-C296i	ULTF-C383i
Outer Dimensions, HxWxD	921x550x550	831x920x608	831x1260x608	831x1560x608
Inner Dimensions, HxWxD	450x390x390	624x760x440	624x1100x440	624x1400x440
Weight Gross/Net, kg	73 / 50	80 / 63	100 / 78	112 / 86
Material Inner Cabinet	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Material Outer Cabinet	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Insulation Thickness, mm	80	80	80	80
Insulation Type	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane
Air Distribution	N/A	N/A	N/A	N/A
Mobility	Standard: 4xCasters with brakes	Standard: 4xCasters with brakes	Standard: 4xCasters with brakes	Standard: 4xCasters with brakes
Refrigerant, Type / gram	Nature R2 / 121	Nature R2 / 90	Nature R2 / 143	Nature R2 / 161
Variable Speed Compressor	No	No	No	No
Internal Air Distribution	Static	Static	Static	Static
Number of Probes	1	1	1	1
STORAGE				
Volume, Gross/net, L	74 / 71	198 / 189	296 / 284	383 / 368
Cryobox "2 capacity	40	117	216	282
2 ml vials capacity	4.000	11.700	21.600	28.200
Inner lids	Yes	Yes	Yes	Yes
PERFORMANCE & OPERATION				
Temperature Range, C°	-20 to -86	-20 to -86	-20 to -86	-20 to -86
Voltage, V	230	230	230	230
Frequence, Hz	50	50	50	50
Max Ambient, °C	30	25	25	25
Max Humidity, °C	65	65	65	65
Noise, dB	54	55	55	55
Energy Consumption, kWh / 24h	5,325	5,994	9,855	9,957
Instant Power Consumption	PD 0,540-0,370/ Stable 0,340	PD 0,370-0,320 /Stable 0,300	PD 0,710-0,550 /Stable 0,520	PD 0,810-0,600 /Stable 0,532
Heat Rejection	370	375	642	670
U-Value	0,19	0,2	0,2	0,2
Defrost	Manual	Manual	Manual	Manual

## SHARED ABILITIES

FEATURES	
Lock	Yes
LED Light	No
Battery Backup for Controller, 24h	Yes
VIP (Vaccuum Insulated Panel)	No
Perimeter Heater	No
Porthole	Ø 12,5 mm
Dry Contact	Yes
Vacuum Valve	No
Door	Solid
Door Reversibility	N/A

CONTROLLER & ALARMS	
Controller	i-Care
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

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

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SOLUTIONS

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# ULT FREEZER

TEMPERATURE RANGE -20°C to -86°C



CONSTRUCTION		VTS 098
Outer Dimensions, HxWxD		830x595x585
Inner Dimensions, HxWxD		675x430x425
Weight Gross/Net, kg		87 / 61
Material Inner Cabinet		Stainless Steel
Material Outer Cabinet		Painted Steel
Insulation Thickness, mm		80
Insulation Type		Polyurethane with Cyclopentane
Air Distribution		N/A
Mobility		Standard: 4xAdjustable feet
Refrigerant, Type / gram		Nature R2 / 109
Variable Speed Compressor		No
Internal Air Distribution		Static
Number of Probes		1
STORAGE		
Volume, Gross/net, L		92 / 92
Shelves		3
Cryobox "2 capacity		63
2 ml vials capacity		
Inner lids		No
PERFORMANCE & OPERATION		
Temperature Range, C°		-20 to -86
Voltage, V		230
Frequency, Hz		50
Max Ambient, °C		25
Max Humidity, °C		65
Noise, dB		
Energy Consumption, kWh / 24h		6,562
Instant Power Consumption		PD 0,750-0,4/Stable 0,330
Heat Rejection		393
U-Value		0,18
Defrost		Manual

FEATURES	
Lock	Yes
LED Light	Yes
Battery Backup for Controller, 24h	Yes
VIP (Vacuum Insulated Panel)	Yes
Perimeter Heater	No
Porthole	No
Dry Contact	Yes
Vacuum Valve	Yes
Door	Solid
Door Reversibility	N/A

CONTROLLER & ALARMS	
Controller	Dixell
Controller language	No language - only 3 digits
USB Connection	Yes
Logging	Data, Alarms & Events
Temperature Graph	No
High/Low Temp. Alarm	Yes
Open Door Alarm	Yes
Probe Failure Alarm	Yes
Power Failure Alarm	Yes

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