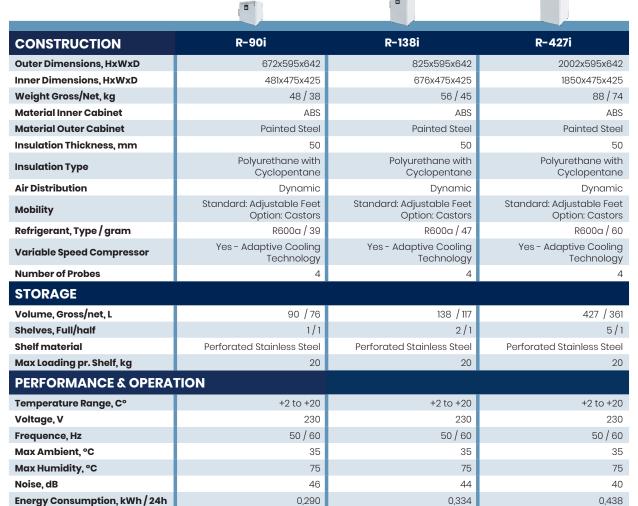
PD 0,075 / Stable 0,025

50

0.44

**Automatic** 

# REFRIGERATORS TEMPERATURE RANGE +2°C to +20°C



### **SHARED ABILITIES**

50

0.58

Automatic

PD 0,080 / Stable 0,025

50

0.59

Automatic

PD 0,064 / Stable 0,025

FEATURES		CONTROLLER & ALAR	MS
Lock	Yes	Controller	i-Care, Touch screen
LED Light	Yes	Controller language	EN, DE, FR
Battery Backup for Controller, 24h	Yes	USB Connection	Yes
Safety Thermostat	Yes	Logging	Data, Alarms & Events
Porthole	Yes - Ø 20mm	Temperature Graph	Yes
Dry Contact	Yes	High/Low Temp. Alarm	Yes
Reference bottle	Yes	Open Door Alarm	Yes
Door	Solid	Probe Failure Alarm	Yes
Door Features	Automatic: Closure < 90° - Hold > 90°	Power Failure Alarm	Yes
Door Reversibility	Yes		

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

Updated 05/2025

**Instant Power Consumption** 

**Heat Rejection\*** 

K-Value

**Defrost** 

### TEMPERATURE RANGE +2°C to +20°C







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 Stainless Steel	Perforated Stainless Steel	Perforated Stainless Steel
Max Loading pr. Shelf, kg	20	20	20
PERFORMANCE & OPERA	TION		
Temperature Range, C°	+2 to +20	+2 to +20	+2 to +20
Voltage, V	230	230	230
Frequence, 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	50	50
K-Value	0,69	0,69	0,70
Defrost	Automatic	Automatic	Automatic

FEATURES		CONTROLLER & ALAR	MS
Lock	Yes	Controller	i-Care, Touch screen
LED Light	Yes	Controller language	EN, DE, FR
Battery Backup for Controller, 24h	Yes	USB Connection	Yes
Safety Thermostat	Yes	Logging	Data, Alarms & Events
Porthole	Yes - Ø 20mm	Temperature Graph	Yes
Dry Contact	Yes	High/Low Temp. Alarm	Yes
Reference bottle	Yes	Open Door Alarm	Yes
Door	Glass	Probe Failure Alarm	Yes
Door Features	Automatic: Closure < 90° – Hold > 90°	Power Failure Alarm	Yes
Door Reversibility	Yes		

# **ESSENTIAL LINE**

TEMPERATURE RANGE +2°C to +10°C







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	Perforated Stainless steel	Perforated Stainless steel
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
Frequence, 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*	50	50
Defrost	Yes - automatic	Yes - automatic

FEATURES		CONTROLLER & ALAR	MS
Lock	Yes	Controller	Danfoss
LED Light	Yes	Controller language	No language. only 3 digits
Battery Backup for Controller, 24h	No	USB Connection	No
Safety Thermostat	No	Logging	No
Porthole	Yes - Ø 12,7 mm	Temperature Graph	No
Dry Contact	No	High/Low Temp. Alarm	Yes
Reference bottle	No	Open Door Alarm	Yes
Door	Glass	Probe Failure Alarm	Yes
Door Closure	Yes	Power Failure Alarm	No
Door Reversibility	Yes		

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

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2m C13 CEE 7/7

# **ULTF LONG TERM**

Noise, dB

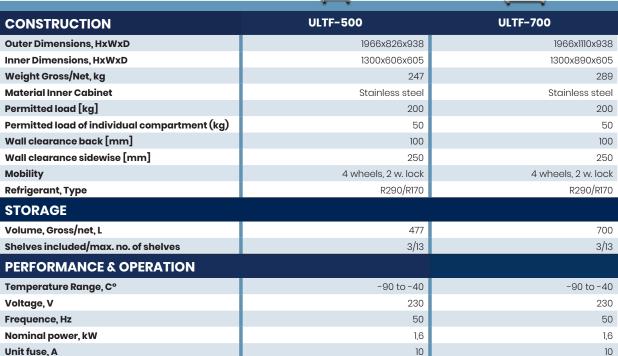
Energy Consumption, kWh/24h

Power plug standard

TEMPERATURE RANGE -40°C to -90°C







### **SHARED ABILITIES**

47

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2m C13 CEE 7/7

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 120 V / 60 Hz, UL standards.

### TEMPERATURE RANGE - 5°C to -25°C





		<u></u>	<u></u>
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 Stainless Steel	Perforated Stainless Steel	Perforated Stainless Steel
Max Loading pr. Shelf, kg	20	20	20
PERFORMANCE & OPERA	TION		
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	IJ	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*	50	100	200
K-Value	0,59	0,59	0,44
Defrost	Automatic	Automatic	Automatic

FEATURES		CONTROLLER & ALAR	MS
Lock	Yes	Controller	i-Care, Touch screen
LED Light	Yes	Controller language	EN, DE, FR
Battery Backup for Controller, 24h	Yes	USB Connection	Yes
No-Frost System™	Yes	Logging	Data, Alarms & Events
Door frame heater	Hot gas	Temperature Graph	Yes
Porthole	Yes - Ø 20mm	High/Low Temp. Alarm	Yes
Dry Contact	Yes	Open Door Alarm	Yes
Reference bottle	No	Probe Failure Alarm	Yes
Door	Standard: Solid	Power Failure Alarm	Yes
Door Features	Automatic: Closure < 90° – Hold > 90°		
Door Reversibility	Yes		

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

# **ULT FREEZERS**

# TEMPERATURE RANGE -20°C to -86°C











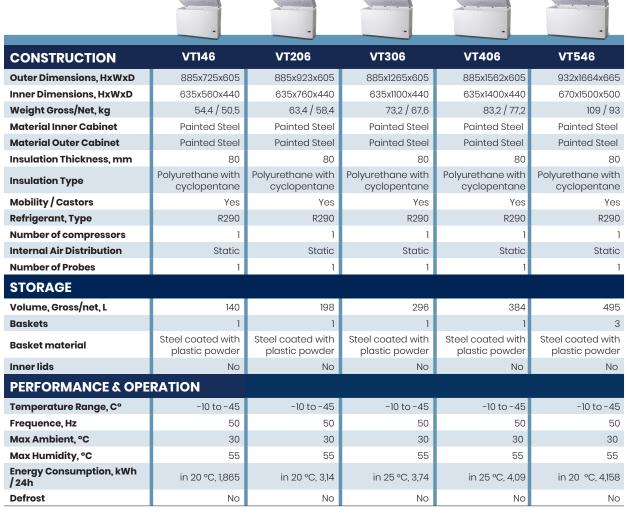
CONSTRUCTION	ULTF-7i	ULTF-37i	ULTF-51i	ULTF-91i
Outer Dimensions, HxWxD	732x457x650	631x630x675	836x699x720	836x947x720
Outer Depth, incl. handle	720	745	790	790
Inner Dimensions, HxWxD	310x150x145	433x439x271	310x360x445	310x640x445
Weight Gross/Net, kg	83 / 63	70 / 59	108 / 82	137 / 102
Material Inner Cabinet	Stainless steel	Stainless Steel	Stainless steel	Stainless steel
Material Outer Cabinet	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Insulation Thickness, mm	120	80	120	120
Insulation Type	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane
Air Distribution	Yes	No	Yes	No
Mobility	4 x adjustable feet	Standard: Adjustable Feet Option: Castors	2 x adjustable feet, 2 x castors	3 x adjustable feet, 3 x castors
Refrigerant, Type / gram	Nature R	Nature R2 / 96	Nature R	Nature R
Variable Speed Compressor	Yes	Yes - Adaptive Cooling Technology	Yes	Yes
Internal Air Distribution	Static	Static	Static	Static
Number of Probes	2	2	2	2
STORAGE				
Volume, L	7	37	50	88
PERFORMANCE & OPERA	TION			
Temperature Range, C°	-20 to -86	-20 to -86	-20 to -86	-20 to -86
Voltage, V	100-240V	100-240V	100-240V	100-240V
Frequence, Hz	50 / 60	50 / 60	50 / 60	50 / 60
Max Ambient, °C	32	32	32	32
Max Humidity, °C	65	65	65	65
Noise, dB	< 48	46	< 48	< 48
Energy Consumption, kWh / 24h	2,94 kWh/24h Set -80	3,251 kWh/24h Set -82	4,34 kWh/24h Set -80	5,22 kWh/24h Set -80
Instant Power Consumption	PD 0,300/Stable 0,190	PD 0,550/Stable 0,270	PD 0,600/Stable 0,280	PD 0,650/Stable 0,280
Heat Rejection*	150	150	200	250
U-Value	N/A	0,19	N/A	N/A
Defrost	No	Manual	No	No

FEATURES		CONTROLLER & ALAR	MS
Lock	Yes	Controller	i-Care, Touch screen
LED Light	No	Controller language	EN, DE, FR
Battery Backup for Controller, 24h	Yes	USB Connection	Yes
VIP (Vaccuum Insulated Panel)	Yes	Logging	Data & Alarms
Door frame heater	Electric	Temperature Graph	Yes
Porthole	Yes - Ø 20mm	High/Low Temp. Alarm	Yes
Dry Contact	Yes	Open Door Alarm	Yes
Vacuum Valve	Yes	Probe Failure Alarm	Yes
Door	Solid	Power Failure Alarm	Yes
Door Reversibility	No	Condenser Fan Alarm	Yes

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

# **CHEST FREEZERS**

TEMPERATURE RANGE -10°C to -45°C

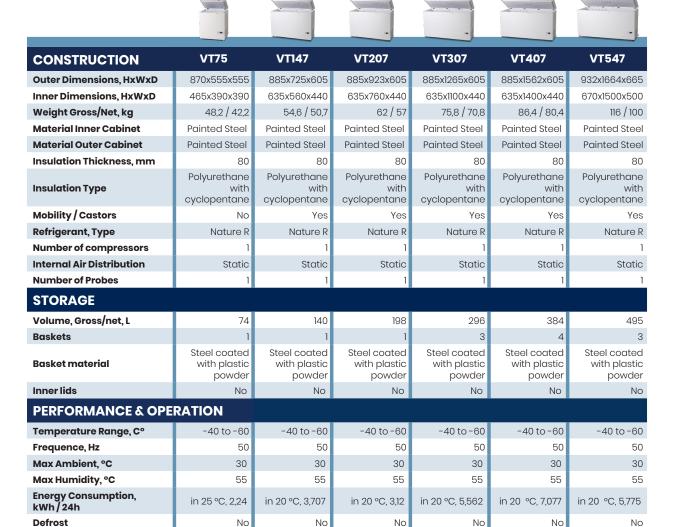


FEATURES	CONTROLLER & ALARMS		
Lock	Yes	Controller	XR30CX
LED Light	No	Controller language	No language - only 3 digits
Battery Backup for Controller, 24h	No	USB Connection	No
Porthole	Yes - Ø 12 mm	Logging	No
Dry Contact	No	Temperature Graph	No
Door	Solid	High/Low Temp. Alarm	Yes
Door Reversibility	N/A	Open Door Alarm	No
		Probe Failure Alarm	Yes
		Power Failure Alarm	No

# CHEST FREEZERS

TEMPERATURE RANGE -40°C to -60°C





FEATURES	CONTROLLER & ALARMS		
Lock	Yes	Controller	XR30CX
LED Light	No	Controller language	No language - only 3 digits
Battery Backup for Controller, 24h	No	USB Connection	No
Porthole	Yes - Ø 12 mm	Logging	No
Dry Contact	No	Temperature Graph	No
Door	Solid	High/Low Temp. Alarm	Yes
Door Reversibility	N/A	Open Door Alarm	No
		Probe Failure Alarm	Yes
		Power Failure Alarm	No

# **CHEST ULT**

### TEMPERATURE RANGE -20°C to -86°C



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 Com- pressor	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*	250	250	450	450			
U-Value	0,19	0,2	0,2	0,2			
Defrost	Manual	Manual	Manual	Manual			

# **SHARED ABILITIES**

FEATURES		CONTROLLER & ALARMS	
Lock	Yes	Controller	i-Care
LED Light	No	Controller language	EN, DE, FR
Battery Backup for Controller, 24h	Yes	USB Connection	Yes
VIP (Vaccuum Insulated Panel)	No	Logging	Data, Alarms & Events
Door frame heater	No	Temperature Graph	Yes
Porthole	Ø 12,5 mm	High/Low Temp. Alarm	Yes
Dry Contact	Yes	Open Door Alarm	No
Vacuum Valve	No	Probe Failure Alarm	Yes
Door	Solid	Power Failure Alarm	Yes
Door Reversibility	N/A		

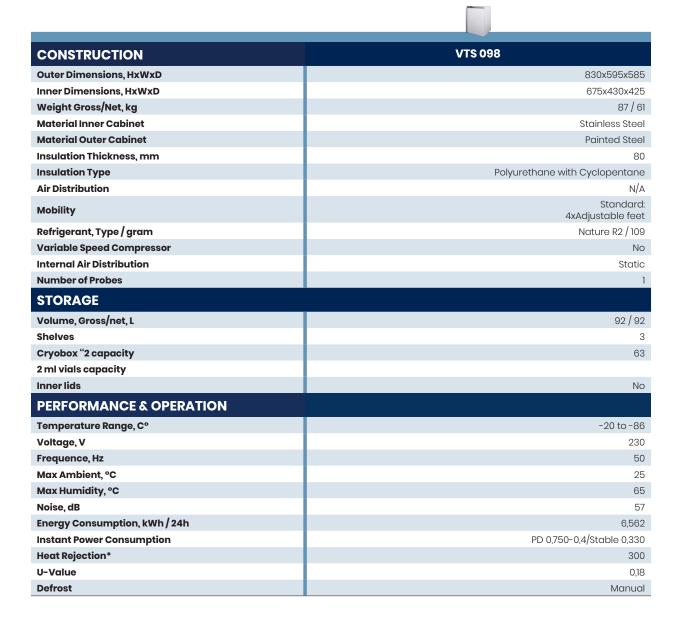
<sup>\*</sup> Heat Rejection is defined as average power based on energy consumption, rounded up to nearest 50W.

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# **ULT FREEZER**

### TEMPERATURE RANGE -20°C to -86°C



FEATURES		CONTROLLER & ALARMS	
Lock	Yes	Controller	Dixell
LED Light	Yes	Controller language	No language - only 3 digits
Battery Backup for Controller, 24h	Yes	USB Connection	Yes
VIP (Vaccuum Insulated Panel)	Yes	Logging	Data, Alarms & Events
Door frame heater	No	Temperature Graph	No
Porthole	No	High/Low Temp. Alarm	Yes
Dry Contact	Yes	Open Door Alarm	Yes
Vacuum Valve	Yes	Probe Failure Alarm	Yes
Door	Solid	Power Failure Alarm	Yes
Door Reversibility	N/A		

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

Updated 05/2025