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

Protection for storage
CE Ex II 3G nA IIB T6

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 Stainless Steel	Perforated Stainless Steel	Perforated Stainless Steel
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
Frequence, 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*	50	50	50
K-Value	0,58	0,59	0,44
Defrost	Automatic	Automatic	Automatic

SHARED ABILITIES

FEATURES		CONTROLLER & ALARMS	
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		

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

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VESTFROST SOLUTIONS

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

Protection for storage
CE II 3G nA IIB T6

DIN
13277

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 & OPERATION			
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

SHARED ABILITIES

FEATURES		CONTROLLER & ALARMS	
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		

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VESTFROST SOLUTIONS

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	20 / 11	20 / 11
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

SHARED ABILITIES

FEATURES		CONTROLLER & ALARMS	
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		

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

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VESTFROST SOLUTIONS

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
Frequence, 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 120 V / 60 Hz, UL standards.

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VESTFROST SOLUTIONS

FREEZERS
TEMPERATURE RANGE –5°C to –25°C

CONSTRUCTION	F-90i	F-138i
Outer Dimensions, HxWxD	672x595x642	825x595x642
Inner Dimensions, HxWxD	481x475x425	676x475x425
Weight Gross/Net, kg	54 / 44	60 / 49
Material Inner Cabinet	ABS	ABS
Material Outer Cabinet	Painted Steel	Painted Steel
Insulation Thickness, mm	50	50
Insulation Type	Polyurethane with Cyclopentane	Polyurethane with Cyclopentane
Air Distribution	Dynamic	Dynamic
Mobility	Standard: Adjustable Feet Option: Castors	Standard: Adjustable Feet Option: Castors
Refrigerant, Type / gram	R600a / 38	R600a / 43
Variable Speed Compressor	Yes - Adaptive Cooling Technology	Yes - Adaptive Cooling Technology
Number of Probes	2	2
STORAGE		
Volume, Gross/net, L	90 / 76	138 / 117
Shelves, Full/half	1 / 1	2 / 1
Shelf material	Perforated Stainless Steel	Perforated Stainless Steel
Max Loading pr. Shelf, kg	20	20
PERFORMANCE & OPERATION		
Temperature Range, C°	–5 to –25	–5 to –25
Voltage, V	230	230
Frequence, Hz	50 / 60	50 / 60
Max Ambient, °C	35	35
Max Humidity, °C	65	65
Noise, dB	40	45
Energy Consumption, kWh / 24h	1,1	1,419
Instant Power Consumption	PD 0,120 / Stable 0,046	PD 0,120 / Stable 0,052
Heat Rejection*	50	100
K-Value	0,59	0,59
Defrost	Automatic	Automatic

SHARED ABILITIES

FEATURES		CONTROLLER & ALARMS	
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		

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

VESTFROST SOLUTIONS

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 / 85	Nature R2 / 96	Nature R / 99	Nature R / 149
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 & OPERATION				
Temperature Range, C°	–20 to –86	–20 to –86	–20 to –86	–20 to –86
Voltage, V	100-240V	230V	100-240V	100-240V
Frequence, Hz	50 / 60	50	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

SHARED ABILITIES

FEATURES		CONTROLLER & ALARMS	
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

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

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VESTFROST SOLUTIONS

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
Frequence, Hz	50
Max Ambient, °C	25
Max Humidity, °C	65
Noise, dB	54
Energy Consumption, kWh / 24h	6,562
Instant Power Consumption	PD 0,750-0,4/Stable 0,330
Heat Rejection*	300
U-Value	0,18
Defrost	Manual

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		

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

VESTFROST SOLUTIONS

CHEST FREEZERS
TEMPERATURE RANGE –10°C to –45°C

Protection for storage
CE II 3G nA IIB T6

CONSTRUCTION	VT146	VT206	VT306	VT406	VT546
Outer Dimensions, HxWxD	885x725x605	885x923x605	885x1265x605	885x1562x605	932x1664x665
Inner Dimensions, HxWxD	635x560x440	635x760x440	635x1100x440	635x1400x440	670x1500x500
Weight Gross/Net, kg	54,4 / 50,5	63,4 / 58,4	73,2 / 67,6	83,2 / 77,2	109 / 93
Material Inner Cabinet	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Material Outer Cabinet	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Insulation Thickness, mm	80	80	80	80	80
Insulation Type	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane
Mobility / Castors	Yes	Yes	Yes	Yes	Yes
Refrigerant, Type	R290	R290	R290	R290	R290
Number of compressors	1	1	1	1	1
Internal Air Distribution	Static	Static	Static	Static	Static
Number of Probes	1	1	1	1	1
STORAGE					
Volume, Gross/net, L	140 / 133	198 / 189	296 / 284	384 / 368	495 / 476
Baskets	1	1	1	1	3
Basket material	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
Inner lids	No	No	No	No	No
PERFORMANCE & OPERATION					
Temperature Range, C°	–10 to –45	–10 to –45	–10 to –45	–10 to –45	–10 to –45
Frequence, Hz	50	50	50	50	50
Max Ambient, °C	30	30	30	30	30
Max Humidity, °C	55	55	55	55	55
Energy Consumption, kWh / 24h	in 20 °C, 1,865	in 20 °C, 3,14	in 25 °C, 3,74	in 25 °C, 4,09	in 20 °C, 4,158
Defrost	No	No	No	No	No

SHARED ABILITIES

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

VESTFROST SOLUTIONS

CHEST FREEZERS
TEMPERATURE RANGE –40°C to –60°C

CONSTRUCTION	VT75	VT147	VT207	VT307	VT407	VT547
Outer Dimensions, HxWxD	870x555x555	885x725x605	885x923x605	885x1265x605	885x1562x605	932x1664x665
Inner Dimensions, HxWxD	465x390x390	635x560x440	635x760x440	635x1100x440	635x1400x440	670x1500x500
Weight Gross/Net, kg	48,2 / 42,2	54,6 / 50,7	62 / 57	75,8 / 70,8	86,4 / 80,4	116 / 100
Material Inner Cabinet	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Material Outer Cabinet	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel	Painted Steel
Insulation Thickness, mm	80	80	80	80	80	80
Insulation Type	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane	Polyurethane with cyclopentane
Mobility / Castors	No	Yes	Yes	Yes	Yes	Yes
Refrigerant, Type	Nature R	Nature R	Nature R	Nature R	Nature R	Nature R
Number of compressors	1	1	1	1	1	1
Internal Air Distribution	Static	Static	Static	Static	Static	Static
Number of Probes	1	1	1	1	1	1
STORAGE						
Volume, Gross/net, L	74 / 71	140 / 133	198 / 189	296 / 284	384 / 368	495 / 476
Baskets	1	1	1	3	4	3
Basket material	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
Inner lids	No	No	No	No	No	No
PERFORMANCE & OPERATION						
Temperature Range, C°	–40 to –60	–40 to –60	–40 to –60	–40 to –60	–40 to –60	–40 to –60
Frequence, Hz	50	50	50	50	50	50
Max Ambient, °C	30	30	30	30	30	30
Max Humidity, °C	55	55	55	55	55	55
Energy Consumption, kWh / 24h	in 25 °C, 2,24	in 20 °C, 3,707	in 20 °C, 3,12	in 20 °C, 5,562	in 20 °C, 7,077	in 20 °C, 5,775
Defrost	No	No	No	No	No	No

SHARED ABILITIES

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

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VESTFROST SOLUTIONS

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 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*	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		

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

VESTFROST SOLUTIONS