

Datasheet

BIOMEDICAL

CATEGORY - ULTRA LOW TEMPERATURE

MODEL - VTS 258

Controller

High/Low Temp. Alarm	Yes
Open Door Alarm	Yes
Probe Failure Alarm	Yes
Power Failure Alarm	Yes
USB Connection	Yes
Temperature Graph	Yes
Datalogging	Yes

Features

Lock	Yes
LED Light	Yes
Battery Backup for Controller, 48h	Yes
Porthole	Yes
Dry Contact	Yes
Hot Wire in Panel	No
Double Panels	No
Vacuum Insulated Panels	No
Vacuum Release Port	Automatic
Compressor	2

Construction

Outer Dimensions, HxWxD	2060x595x633
Inner Dimensions, HxWxD	1439x440x405
Volume Gross/net, L	256 / 237
Net Weight, kg	140
Material Inner Cabinet	Stainless Steel
Material Outer Cabinet	Painted Steel
Insulation Thickness, mm	80
Insulation Type	Polyurethane with Cyclopentane
Refrigerant	Nature R
Refrigeration System	Static
Feet / Castors	Castors



LOW NOISE



ENVIRONMENT FRIENDLY



USER FRIENDLY

Operation

Temperature Range, C°	-60 to -86
Noise, dB	64
Energy Consumption 24/h, kWh	10,3
Frequency, Hz	50
Power Supply, V	220 / 240

Storage

Number of Shelves (Standard/max)	5 / 5
Shelf material	Stainless Steel
Max Loading pr. Shelf, kg	16
Max no. of 50mm Cryoboxes	144
Vials, 2ml	14.400
Inner Lids	2

Datasheet

BIOMEDICAL

CATEGORY - REFRIGERATOR

MODEL - AKG/s 157

Controller

Defrost	Automatic
High/Low Temp. Alarm	Yes
Open Door Alarm	Yes
Probe Failure Alarm	Yes
Power Failure Alarm	Yes
USB Connection	Yes
Datalogging	Yes

Features

Lock	Yes
LED Light	Yes
Safety Thermostat	With DIN kit
Battery Backup for Controller, 48h	Yes
Porthole	Yes
Dry Contact	Yes
Door	Glass / Solid
Door Closure	Yes
Door Reversibility	Yes
Castors with hight adjustable feet	No

Construction

Outer Dimensions, HxWxD	825x595x645
Inner Dimensions, HxWxD	669x492x435
Volume Gross/net, L	133 / 119
Net Weight, kg	52
Material Inner Cabinet	Painted Alu
Material Outer Cabinet	Painted Steel
Insulation Thickness, mm	50
Insulation Type	Polyurethane with Cyclopentane
Refrigerant	R600a
Air Distribution	Mono Air Stream
Feet / Castors	Feet



LOW NOISE



ENVIRONMENT FRIENDLY



USER FRIENDLY

Operation

Temperature Range, C°	+2 to +8
Noise, dB	41
Energy Consumption 24/h, kWh	Glass 0,5 Solid 0,4
Frequency, Hz	50
Power Supply, V	220 / 240

Storage

Number of Shelves (Standard/max)	2 / 2 + Bottom
Shelf material	Stainless Steel Wire Shelf
Max Loading pr. Shelf, kg	16
Max no. of Drawers Available	2 + Bottom
Drawer Material	Stainless Steel
Max Loading pr. Drawer, kg	16

DIN 58345: 2007

We, Vestfrost Solutions A/S declare under sole responsibility that the following products:


Product category: Pharmacy Refrigerator
Model no.: 157, 337, 397, 427

Is in compliance with DIN 58345.

DIN stands for "Deutsches Institut für Normung" (German Institute for Standardization). The Institute's specialist bodies define industry standards. DIN 58345 relates to pharmaceutical refrigerators that are used to store pharmaceuticals at an operating temperature of 2°C to 8°C. DIN 58345 currently reflects the latest technological refrigerators.

Basic requirements established by DIN 58345:

- Operating temperature: +2°C to +8°C
- Usable in ambient temperature: +10°C to +35°C
- Noise emissions: < 60dB(A)
- Visual and acoustic warning system for high and low temperatures
- Dry contact for external alarm systems
- Warning system active from min. 12 h in the event of a power cut
- Safety thermostat for preventing temperatures below +2°C
- Load bearing capacity at least 100 kg/m²
- Lockable door

	30.10.2019
_____ SIGNATURE	_____ DATE

AUTHORITY:
TAJ BERNTH, COO
A/S VESTFROST

8181XXX rev 01

VESTFROST
SOLUTIONS



Datasheet

Controller

Defrost	Automatic
High/Low Temp. Alarm	Yes
Open Door Alarm	Yes
Probe Failure Alarm	Yes
Power Failure Alarm	Option
USB Connection	Yes
Datalogging	Yes

Features

Lock	Yes
LED Light	Yes
Safety Thermostat	Option
Battery Backup for Controller, 48h	Option
Porthole	Yes
Dry Contact	Yes
Door	Standard: Solid Option: Glass
Door Features	Automatic Closure
Door Reversibility	Yes

Construction

Outer Dimensions, HxWxD	1550x595x638
Inner Dimensions, HxWxD	1287x518x460
Volume Gross/net, L	306 / 281
Weight Gross/Net, kg	82 / 80
Material Inner Cabinet	PVC
Material Outer Cabinet	Painted Steel
Insulation Thickness, mm	35
Insulation Type	Polyurethane with Cyclopentane
Refrigerant	R600a
Air Distribution	Forced Air
Mobility	Standard: Adjustable Feet Option: Castors

+20°C
+2°C



AKS 337

Biomedical Refrigerator



LOW NOISE



ENVIRONMENT
FRIENDLY



USER
FRIENDLY

Operation

Temperature Range, C°	+2 to +20
Noise, dB	41
Energy Consumption 24/h, kWh	Solid: 0,5
Frequency, Hz	50
Power Supply, V	220 / 240
Instant Power Consumption	N/A
K-Value	N/A
Heat Rejection	N/A

Storage

BioChill™ Shelves (Standard/max)	4 / 16
Half shelf (Standard/max)	1 / 1
Shelf material	Aluminum
Max Loading pr. Shelf, kg	20
BioChill™ Drawers Max. Fit	1
Drawer Material	Aluminum
Max Loading pr. Drawer, kg	18



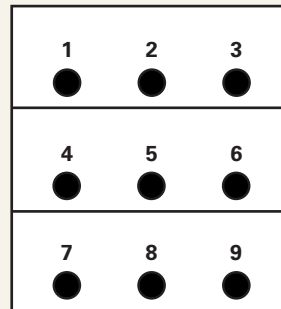
Temperature Mapping

Test overview

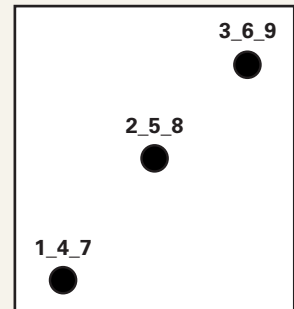
Test type	9-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	5°C
Sensors used	25gr tinned brass formed as a cylinder with a diameter of 15,2mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	R600a

Sensor position

Front View



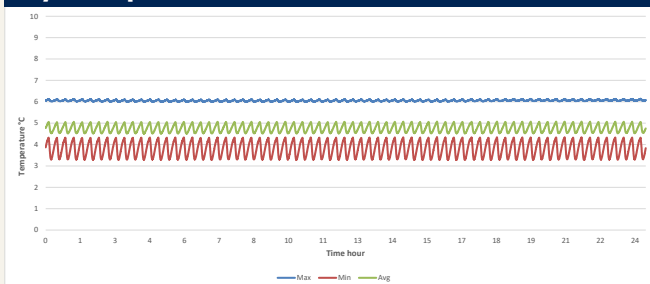
Top View



Sensor temperature

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9
Max.	6,1	5,3	5,7	4,8	4,4	4,3	5,3	4,7	5
Avg.	6,1	5,2	5,4	4,5	3,8	3,9	5	4,4	4,6
Min.	6	5,1	5,2	4,3	3,3	3,5	4,8	4,1	4,3

Cyclic operation



Warm up & Pull down

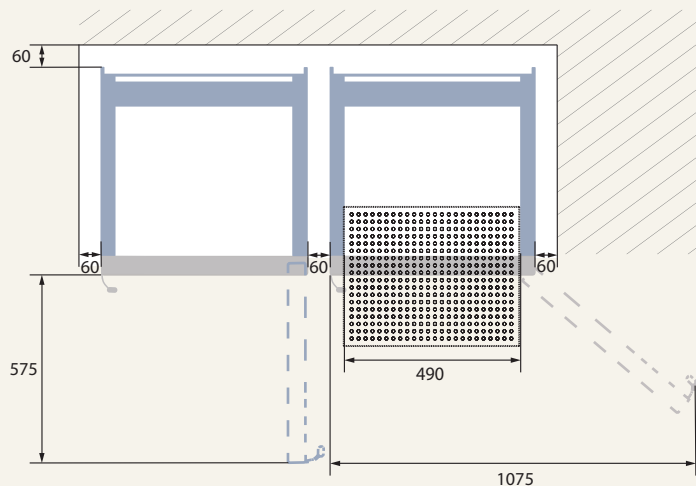


Typical Performance data

Avg. cabinet temperature	4,8°C
Peak variation from set-point	+1,3/-1,5°C
Stability in avg.	1,7°C
1 min. door open recovery to 6°C avg. temperature	12 min.
Cycle rate on/off	3,1/17 min.
Duty cycle	15,4%
Energy consumption	0,56 kWh/day
Pull down time to 6°C avg. temperature	48 min.
Hold over time from 5°C to 10°C	70 min.
Sample temperature does not exceed	8°C

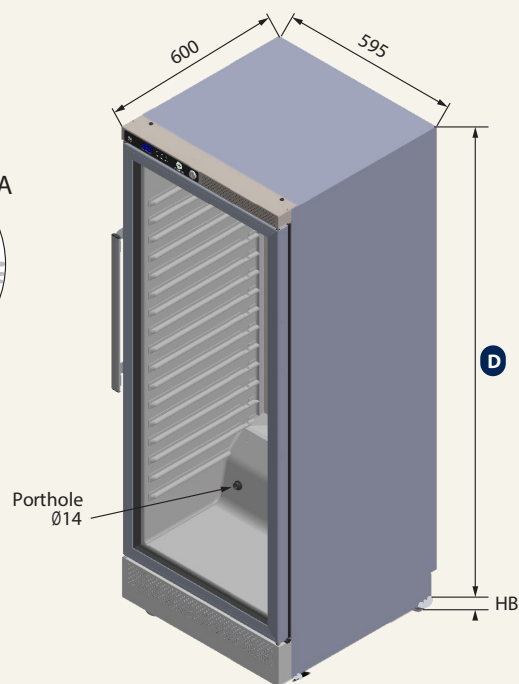
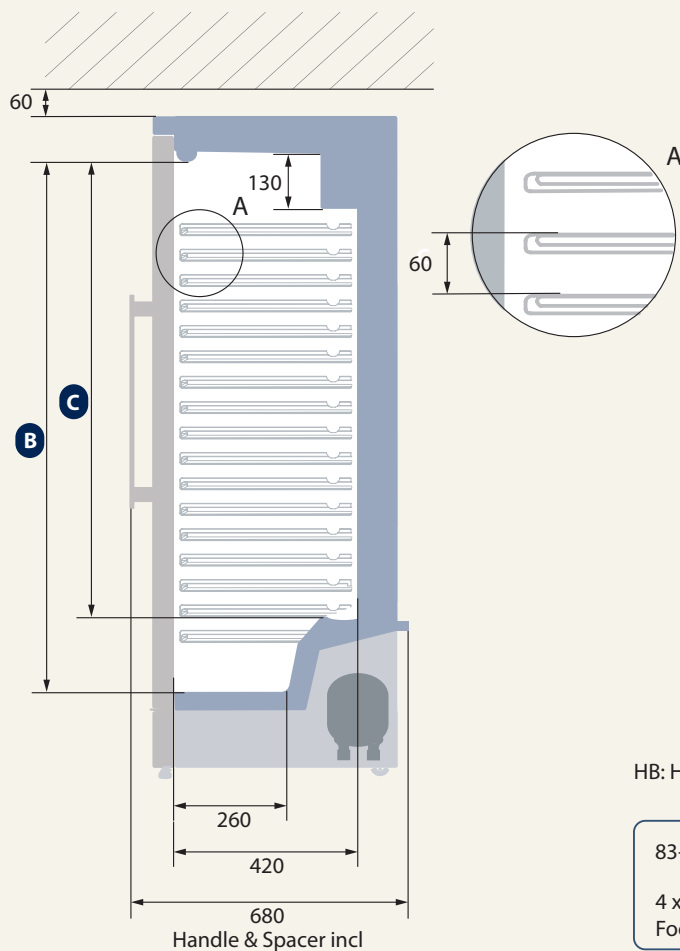


Dimensions



Model	B	C	D
AKS 337	1260	965	1535
AKS 397	1570	1175	1835

All measurements are in millimeters



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

83-101

4 x Wheel with
Footmaster

20-58

Front:
2 x Ajustable foot

13

Back:
2 x Castor

DIN 58345: 2007

We, Vestfrost Solutions A/S declare under sole responsibility that the following products:

Product category:

Pharmacy Refrigerator

Model no.:


337, 397

Is in compliance with DIN 58345.

DIN stands for "Deutsches Institut für Normung" (German Institute for Standardization). The Institute's specialist bodies define industry standards. DIN 58345 relates to pharmaceutical refrigerators that are used to store pharmaceuticals at an operating temperature of 2°C to 8°C. DIN 58345 currently reflects the latest technological refrigerators.

Basic requirements established by DIN 58345:

- Operating temperature: +2°C to +8°C
- Usable in ambient temperature: +10°C to +35°C
- Noise emissions: < 60dB(A)
- Visual and acoustic warning system for high and low temperatures
- Dry contact for external alarm systems
- Warning system active from min. 12 h in the event of a power cut
- Safety thermostat for preventing temperatures below +2°C
- Load bearing capacity at least 100 kg/m²
- Lockable door

	10.04.2019
_____ SIGNATURE	_____ DATE

AUTHORITY:
TAJ BERNTH, COO
A/S VESTFROST

8181XXX rev 01

VESTFROST
SOLUTIONS



Datasheet

Controller

Defrost	Automatic
High/Low Temp. Alarm	Yes
Open Door Alarm	Yes
Probe Failure Alarm	Yes
Power Failure Alarm	Option
USB Connection	Yes
Datalogging	Yes

Features

Lock	Yes
LED Light	Yes
Safety Thermostat	Option
Battery Backup for Controller, 48h	Option
Porthole	Yes
Dry Contact	Yes
Door	Standard: Solid Option: Glass
Door Features	Automatic Closure
Door Reversibility	Yes

Construction

Outer Dimensions, HxWxD	1919x595x638
Inner Dimensions, HxWxD	1587x518x460
Volume Gross/net, L	381 / 351
Weight Gross/Net, kg	101 / 99
Material Inner Cabinet	PVC
Material Outer Cabinet	Painted Steel
Insulation Thickness, mm	35
Insulation Type	Polyurethane with Cyclopentane
Refrigerant	R600a
Air Distribution	Forced Air
Mobility	Standard: Adjustable Feet Option: Castors

+20°C
+2°C



AKS 397

Biomedical Refrigerator



LOW NOISE



ENVIRONMENT
FRIENDLY



USER
FRIENDLY

Operation

Temperature Range, C°	+2 to +20
Noise, dB	41
Energy Consumption 24/h, kWh	Solid: 0,7
Frequency, Hz	50
Power Supply, V	220 / 240
Instant Power Consumption	N/A
K-Value	N/A
Heat Rejection	N/A

Storage

BioChill™ Shelves (Standard/max)	5 / 21
Half shelf (Standard/max)	1 / 1
Shelf material	Aluminum
Max Loading pr. Shelf, kg	20
BioChill™ Drawers Max. Fit	1
Drawer Material	Aluminum
Max Loading pr. Drawer, kg	18



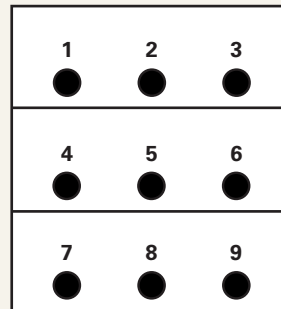
Temperature Mapping

Test overview

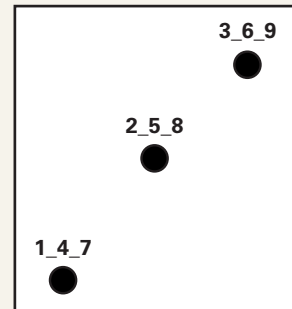
Test type	9-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	5°C
Sensors used	25gr tinned brass formed as a cylinder with a diameter of 15,2mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	R600a

Sensor position

Front View



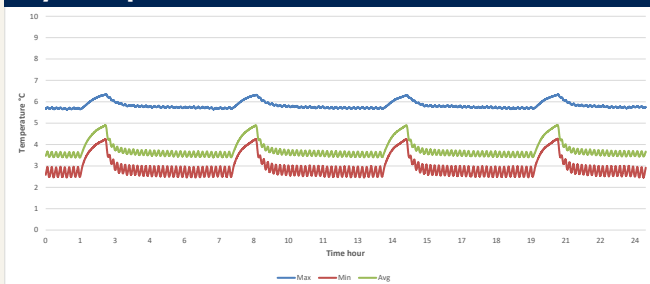
Top View



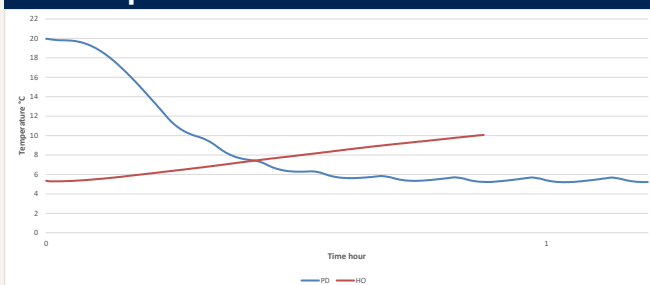
Sensor temperature

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9
Max.	6,3	4,9	4,9	5	4,8	5	4,8	4,3	4,4
Avg.	5,8	4,2	4,2	3,3	3,2	3,3	3,8	3,1	3,2
Min.	5,6	4	4	2,8	2,7	2,8	3,4	2,6	2,7

Cyclic operation



Warm up & Pull down

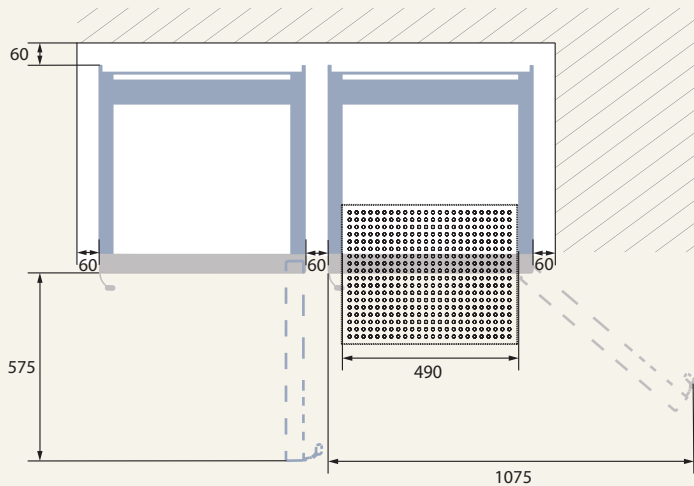


Typical Performance data

Avg. cabinet temperature	3,8°C
Peak variation from set-point	+2,5/-1,2°C
Stability in avg.	2,7°C
1 min. door open recovery to 6°C avg. temperature	15 min.
Cycle rate on/off	2,6/9,4 min.
Duty cycle	21,6%
Energy consumption	0,73 kWh/day
Pull down time to 6°C avg. temperature	50 min.
Hold over time from 5°C to 10°C	72 min.
Sample temperature does not exceed	8°C

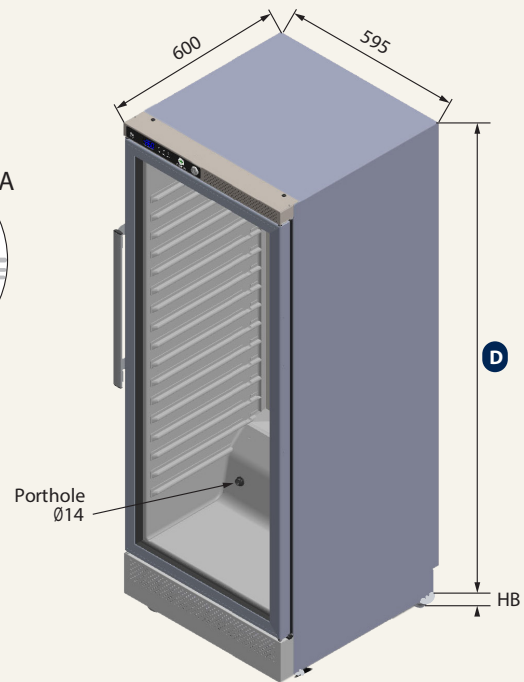
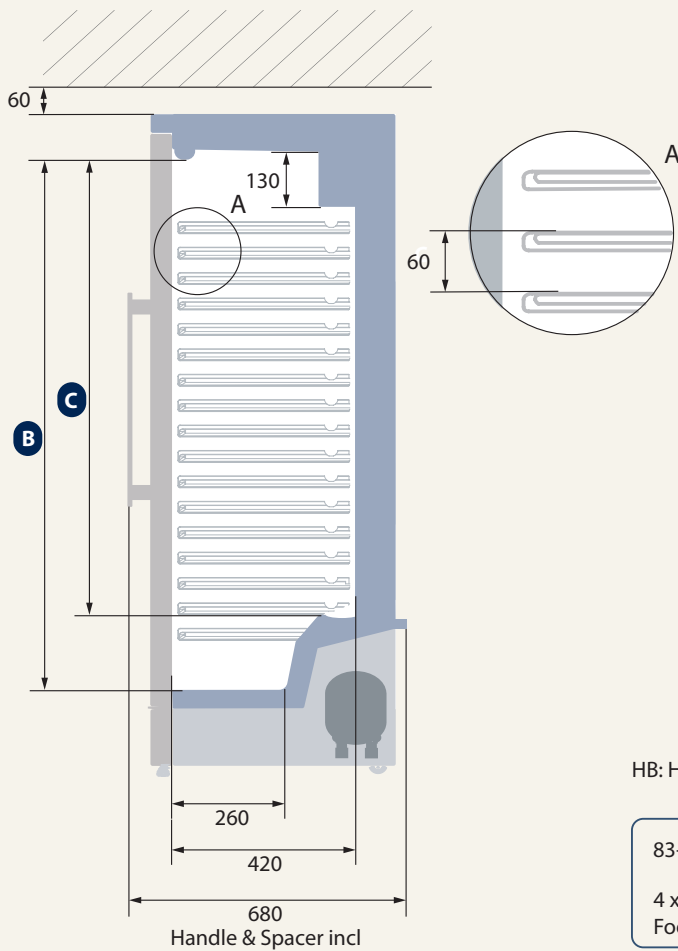


Dimensions



Model	B	C	D
AKS 337	1260	965	1535
AKS 397	1570	1175	1835

All measurements are in millimeters



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

83-101

4 x Wheel with
Footmaster

20-58

Front:
2 x Ajustable foot

13

Back:
2 x Castor

DIN 58345: 2007

We, Vestfrost Solutions A/S declare under sole responsibility that the following products:

Product category:

Pharmacy Refrigerator

Model no.:


337, 397

Is in compliance with DIN 58345.

DIN stands for "Deutsches Institut für Normung" (German Institute for Standardization). The Institute's specialist bodies define industry standards. DIN 58345 relates to pharmaceutical refrigerators that are used to store pharmaceuticals at an operating temperature of 2°C to 8°C. DIN 58345 currently reflects the latest technological refrigerators.

Basic requirements established by DIN 58345:

- Operating temperature: +2°C to +8°C
- Usable in ambient temperature: +10°C to +35°C
- Noise emissions: < 60dB(A)
- Visual and acoustic warning system for high and low temperatures
- Dry contact for external alarm systems
- Warning system active from min. 12 h in the event of a power cut
- Safety thermostat for preventing temperatures below +2°C
- Load bearing capacity at least 100 kg/m²
- Lockable door

	10.04.2019
SIGNATURE	DATE

AUTHORITY:
TAJ BERNTH, COO
A/S VESTFROST

8181XXX rev 01

VESTFROST
SOLUTIONS

PRODUCT

VLS 204A AC ICELINED REFRIGERATOR

Probably the most energy efficient icelined refrigerator available today. A sustainable solution constructed with hydrocarbon refrigerant, cyclopentane insulation and recyclable components. Net capacity is increased by at least 40 % due to the specially developed integrated icelining, which is covered with a prepainted aluminium inner liner surface. Reliability and usability is secured through the self-regulating cooling system.

The junction box further from safeguard the electrical parts, eases services as well as maintenance on the appliance. In addition the appliance now is supplied with an appliance socket.

SPECIFICATIONS

Gross volume, litres (cu. ft.)	113 (3.99)
Net volume, litres (cu. ft.)	60 (2.11)
Temperature range (43°C AMB)	+2° to +8°C
Hold-over time, hours	54
Energy consumption - stable, kWh/24h	0.57
Energy consumption- cool down, kWh/24h	0.58
Refrigerant	R600a
Freeze protection, grade	A
Climate class	T
Energy supply needed per 24 hours, hours	4

WHO SPECIFICATIONS

Test procedure	E003/RF03-VP.3
Performance specification	E003/RF03.4
PQS code	E003/109

FEATURES

Storage baskets, no	3
Temperature control	Automatic
Lock + keys	YES
Junction box	YES
Adjustable legs	YES



DIMENSIONS

Height, mm (inches)	905 (35.62)
Width, mm (inches)	720 (28.34)
Depth, mm (inches) with handle	700 (27.56)
Gross weight, kg (lbs)	75 (165)
Net weight, kg (lbs)	57 (125)

LOADING QUANTITIES

Qty. per 20' / 40' container	44 / 92
Qty. per truck (EU standard)	106

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



COLD CHAIN SOLUTIONS

VESTFROST
SOLUTIONS

A/S Vestfrost
Falkevej 12
DK-6705 Esbjerg Ø
www.vestfrostsolutions.com



PERFORMANCE QUALITY SAFETY



E003:

Refrigerators and freezers

PQS code:	E003/109
Type of appliance:	Icelined refrigerator
Manufacturer's reference:	VLS 204A
Manufactured in:	Denmark
Company:	Vestfrost Solutions
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

Telephone: +45 7914 2555; +45 7914 2248

Email: clc@vestfrostsolutions.com;
bjn@vestfrostsolutions.com

Web address: <http://vestfrostsolutions.com/>

Specifications

Climate zone:		Min rated ambient temp:	+5°C
Refrigerant:	R600a	Energy source:	Electric Mains 220-240V 50/60Hz
Appliance tested at:	+43°C	Ext dimensions (HxLxD)	85 x 73 x 70 cm
Performance at:	+43°C	Fuel and cycle type:	Electric - compression

REFRIGERATOR

FREEZER

Freeze protection: Grade A

Vaccine storage capacity: 60L
(Litres)

Gross volume (Litres): 113L

Holdover time (hours): 54

Energy consumption, stable running (kWh/24 hours): 0.57

Energy consumption, cool down test (kWh/24 hours): 0.58

Gross volume: N/A

Waterpack freezing capacity: N/A

Waterpack storage capacity: N/A

Energy consumption during freezing: N/A

<p>Appliance requires only 4 hours electricity per 24 hours at +43C° Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. As an option the VLS 204A AC can be supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection</p>			
Comments:			
Accessories:			
2 x Vaccine storage top basket; 1 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate			
Spare parts (ref, price):			
Included in the UNICEF Supply Division spare parts kit: 1 No Compressor, TLES7KTK , Complete - Part No.8-036038297 1 No Thermostat - Part No.7020276 1 No Starting device, 103N0021 - Part No.A921115 1 No Thermometer, solar - Part No.7020287-03 Other parts are available as spares on request.			
Shipping volume:	0.58m3	Shipping weight:	70kg
Price year	2016	Incoterms	FCA
Price			
Quality standard:	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -		Specification ref.
Verification report:	BOM No: 1-n113	Verification laboratory:	Danish Technological Institute
Current PQS status:	<i>pre-qualified: 02 Oct 2019</i>		Validity until: <i>May, 2021</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

PRODUCT

VLS 204A AC ICELINED REFRIGERATOR

Probably the most energy efficient icelined refrigerator available today. A sustainable solution constructed with hydrocarbon refrigerant, cyclopentane insulation and recyclable components. Net capacity is increased by at least 40 % due to the specially developed integrated icelining, which is covered with a prepainted aluminium inner liner surface. Reliability and usability is secured through the self-regulating cooling system.

The junction box further from safeguard the electrical parts, aces services as well as maintenance on the appiance. In addition the appliance now is supplied with an appliance socket.

SPECIFICATIONS

Gross volume, litres (cu. ft.)	113 (3.99)
Net volume, litres (cu. ft.)	60 (2.11)
Temperature range (43°C AMB)	+2° to +8°C
Hold-over time, hours	54
Energy consumption - stable, kWh/24h	0.57
Energy consumption- cool down, kWh/24h	0.58
Refrigerant	R600a
Freeze protection, grade	A
Climate class	T
Energy supply needed per 24 hours, hours	4

WHO SPECIFICATIONS

Test procedure	E003/RF03-VP.3
Performance specification	E003/RF03.4
PQS code	E003/109

FEATURES

Storage baskets, no	3
Temperature control	Automatic
Lock + keys	YES
Junction box	YES
Adjustable legs	YES



DIMENSIONS

Height, mm (inches)	905 (35.62)
Width, mm (inches)	720 (28.34)
Depth, mm (inches) with handle	700 (27.56)
Gross weight, kg (lbs)	75 (165)
Net weight, kg (lbs)	57 (125)

LOADING QUANTITIES

Qty. per 20' / 40' container	44 / 92
Qty. per truck (EU standard)	106

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



COLD CHAIN SOLUTIONS

VESTFROST
SOLUTIONS

A/S Vestfrost
Falkevej 12
DK-6705 Esbjerg Ø
www.vestfrostsolutions.com



PERFORMANCE QUALITY SAFETY



E003:

Refrigerators and freezers

PQS code:	E003/109
Type of appliance:	Icelined refrigerator
Manufacturer's reference:	VLS 204A
Manufactured in:	Denmark
Company:	Vestfrost Solutions
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

Telephone: +45 7914 2555; +45 7914 2248

Email: clc@vestfrostsolutions.com;
bjn@vestfrostsolutions.com

Web address: <http://vestfrostsolutions.com/>

Specifications

Climate zone:		Min rated ambient temp:	+5°C
Refrigerant:	R600a	Energy source:	Electric Mains 220-240V 50/60Hz
Appliance tested at:	+43°C	Ext dimensions (HxLxD)	85 x 73 x 70 cm
Performance at:	+43°C	Fuel and cycle type:	Electric - compression

REFRIGERATOR

FREEZER

Freeze protection: Grade A

Vaccine storage capacity: 60L
(Litres)

Gross volume (Litres): 113L

Holdover time (hours): 54

Energy consumption, stable running (kWh/24 hours): 0.57

Energy consumption, cool down test (kWh/24 hours): 0.58

Gross volume: N/A

Waterpack freezing capacity: N/A

Waterpack storage capacity: N/A

Energy consumption during freezing: N/A

<p>Appliance requires only 4 hours electricity per 24 hours at +43C° Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. As an option the VLS 204A AC can be supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection</p>			
Comments:			
Accessories:			
2 x Vaccine storage top basket; 1 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate			
Spare parts (ref, price):			
Included in the UNICEF Supply Division spare parts kit: 1 No Compressor, TLES7KTK , Complete - Part No.8-036038297 1 No Thermostat - Part No.7020276 1 No Starting device, 103N0021 - Part No.A921115 1 No Thermometer, solar - Part No.7020287-03 Other parts are available as spares on request.			
Shipping volume:	0.58m3	Shipping weight:	70kg
Price year	2016	Incoterms	FCA
Price			
Quality standard:	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -		Specification ref.
Verification report:	BOM No: 1-n113	Verification laboratory:	Danish Technological Institute
Current PQS status:	<i>pre-qualified: 02 Oct 2019</i>		Validity until: <i>May, 2021</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

PRODUCT

VLS 304A AC ICELINED REFRIGERATOR

Probably the most energy efficient icelined refrigerator available today. A sustainable solution constructed with hydrocarbon refrigerant, cyclopentane insulation and recyclable components. Net capacity is increased by at least 40 % due to the specially developed integrated icelining, which is covered with a prepainted aluminium inner liner surface. Reliability and usability is secured through the self-regulating cooling system.

The junction box further from safeguard the electrical parts, aces services as well as maintenance on the appliance. In addition the appliance now is supplied with an appliance socket.

SPECIFICATIONS

Gross volume, litres (cu. ft.)	157 (5.54)
Net volume, litres (cu. ft.)	98 (3.46)
Temperature range (43°C AMB)	+2° to +8°C
Hold-over time, hours	55.5
Energy consumption - stable, kWh/24h	0.60
Energy consumption- cool down, kWh/24h	0.69
Refrigerant	R600a
Freeze protection, grade	A
Climate class	T
Energy supply needed per 24 hours, hours	8

WHO SPECIFICATIONS

Test procedure	E003/RF03-VP3
Performance specification	E003/RF03.4
PQS code	E003/110

FEATURES

Storage baskets, no	5
Temperature control	Automatic
Lock + keys	YES
Junction box	YES
Adjustable legs	YES



DIMENSIONS

Height, mm (inches)	905 (35.62)
Width, mm (inches)	920 (36.22)
Depth, mm (inches) with handle	700 (27.56)
Gross weight, kg (lbs)	88 (194)
Net weight, kg (lbs)	70 (154)

LOADING QUANTITIES

Qty. per 20' / 40' container	36 / 72
Qty. per truck (EU standard)	78

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



COLD CHAIN SOLUTIONS

VESTFROST
SOLUTIONS

A/S Vestfrost
Falkevej 12
DK-6705 Esbjerg Ø
www.vestfrostsolutions.com



PERFORMANCE QUALITY SAFETY



E003:

Refrigerators and freezers

PQS code:	E003/110
Type of appliance:	Icelined refrigerator
Manufacturer's reference:	VLS 304A AC
Manufactured in:	Denmark
Company:	Vestfrost Solutions
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

Telephone: +45 7914 2555; +45 7914 2248

Email: clc@vestfrostsolutions.com;
bjn@vestfrostsolutions.com

Web address: <http://vestfrostsolutions.com/>

Specifications

Climate zone:	Hot	Min rated ambient temp:	+5°C
Refrigerant:	R600a	Energy source:	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Appliance tested at:	+43°C	Ext dimensions (HxLxD)	85 x 92 x 70 cm
Performance at:	+43°C	Fuel and cycle type:	Electric - compression

REFRIGERATOR

FREEZER

Freeze protection: Grade A

Vaccine storage capacity: (Litres)	98
Gross volume (Litres):	157
Holdover time (hours):	55.5 hours
Energy consumption, stable running (kWh/24 hours):	0.60 kWh/24h
Energy consumption, cool down test (kWh/24 hours):	0.69 kWh/24h

Gross volume:	N/A
Waterpack freezing capacity:	N/A
	N/A
Waterpack storage capacity:	
Energy consumption during freezing:	N/A

<p>Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features. Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance. For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable. Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc. As an option the VLS 304A AC can be supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection</p>			
Comments:			
Accessories:			
3 x Vaccine storage top basket; 2 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate			
Spare parts (ref, price):			
Included in the UNICEF Supply Division spare parts kit: 1 No Compressor, TLES7KTK , Complete - Part No.8-036038255 1 No Thermostat - Part No.7020390 1 No Starting device, 103N0021 - Part No.A921115 1 No Thermometer, solar - Part No.7020287-03 Other parts are available as spares on request.			
Shipping volume:	0.75 m3	Shipping weight:	93 kg
Price year	2016	Incoterms	FCA
Price			
Quality standard:	- ISO 9001:2008 - ISO 14001 - DS/OHSAS 18001:2008 -	Specification ref.	
Verification report:	12057110OMKS-002a amended	Verification laboratory:	Intertek UK
Current PQS status:	<i>pre-qualified: 02 Oct 2019</i>		Validity until: <i>May, 2021</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.

PRODUCT

VLS 404A AC ICELINED REFRIGERATOR

Probably the most energy efficient icelined refrigerator available today. A sustainable solution constructed with hydrocarbon refrigerant, cyclopentane insulation and recyclable components. Net capacity is increased by at least 40 % due to the specially developed integrated icelining, which is covered with a prepainted aluminium inner liner surface. Reliability and usability is secured through the self-regulating cooling system.

The junction box further from safeguard the electrical parts, aces services as well as maintenance on the appliance. In addition the appliance now is supplied with an appliance socket.

SPECIFICATIONS

Gross volume, litres (cu. ft.)	235 (8.29)
Net volume, litres (cu. ft.)	145 (5.12)
Temperature range (43°C AMB)	+2° to +8°C
Hold-over time, hours	55
Energy consumption - stable, kWh/24h	0.67
Energy consumption- cool down, kWh/24h	0.69
Refrigerant	R600a
Freeze protection, grade	A
Climate class	T
Energy supply needed per 24 hours, hours	4

WHO SPECIFICATIONS

Test procedure	E003/RF03-VP3
Performance specification	E003/RF03.4
PQS code	E003/112

FEATURES

Storage baskets, no	7
Temperature control	Automatic
Lock + keys	YES
Junction box	YES
Adjustable legs	YES



DIMENSIONS

Height, mm (inches)	905 (35.62)
Width, mm (inches)	1.260 (46.60)
Depth, mm (inches) with handle	700 (27.59)
Gross weight, kg (lbs)	110 (242)
Net weight, kg (lbs)	88 (194)

LOADING QUANTITIES

Qty. per 20' / 40' container	24 / 50
Qty. per truck (EU standard)	60

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



COLD CHAIN SOLUTIONS

VESTFROST
SOLUTIONS

A/S Vestfrost
Falkevej 12
DK-6705 Esbjerg Ø
www.vestfrostsolutions.com



PERFORMANCE QUALITY SAFETY



E003:

Refrigerators and freezers

PQS code:	E003/112
Type of appliance:	Icelined refrigerator
Manufacturer's reference:	VLS 404A AC
Manufactured in:	Denmark
Company:	Vestfrost Solutions
Address:	A/S Vestfrost Falkevej 12 DK-6705 Esbjerg Ø Denmark

Telephone: +45 7914 2555; +45 7914 2248

Email: clc@vestfrostsolutions.com;
bjn@vestfrostsolutions.com

Web address: <http://vestfrostsolutions.com/>

Specifications

Climate zone:	Hot	Min rated ambient temp:	+5°C
Refrigerant:	R600a	Energy source:	Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
Appliance tested at:	+43°C	Ext dimensions (HxLxD)	86.0 X 127.0 X 70.0 cm
Performance at:	+43°C	Fuel and cycle type:	Electric - compression

REFRIGERATOR

FREEZER

Freeze protection: Grade A

Vaccine storage capacity: 145
(Litres)

Gross volume (Litres): 235

Holdover time (hours): 55 hours

Energy consumption, stable 0.67
running (kWh/24 hours):

Energy consumption, cool 0.69
down test (kWh/24 hours):

Gross volume:

Waterpack freezing capacity: N/A

N/A

Waterpack storage capacity:

Energy consumption during N/A
freezing:

		<p>Equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.</p> <p>Electrical components positioned in corrosion free metal junction box, protecting for water, dust intrusion, and eases service/maintenance.</p> <p>For easy customization to local standard plug, supplied with appliance power in-let + appliance power plug/cable.</p> <p>Supplied with adjustable legs, elevating appliance to protect against water/rubbish etc.</p> <p>As an option the VLS 400A AC can be supplied with internal voltage stabilizer for extended input range, incl. high, low, spike and surge protection</p>	
Comments:			
Accessories:		<p>4 x Vaccine storage top basket; 3 x Vaccine bottom basket; 1 x Bottom grating; 1 x Voltage stabilizer; 1 x 30 day electronic temperature logger; 1 x Holder for temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate</p>	
Spare parts (ref, price):		<p>Included in the UNICEF Supply Division spare parts kit:</p> <p>1 No Compressor - NLE 9KTK , Complete, R600a - Part No. 8-036038255</p> <p>1 No Thermostat - Part No.7020276</p> <p>1 No Starting device, 103N0021 - Part No.A921115</p> <p>1 No Thermometer, solar - Part No.7020287-03</p> <p>Other parts are available as spares on request.</p>	
Shipping volume:	1.02 m3	Shipping weight:	126 Kg
Price year	2016	Incoterms	FCA
Price			
Quality standard:	<p>- ISO 9001:2008 - ISO 14001</p> <p>- DS/OHSAS 18001:2008 -</p>		Specification ref.
Verification report:	A66543 - amended	Verification laboratory:	Intertek UK
Current PQS status:	<i>pre-qualified: 02 Oct 2019</i>		Validity until: <i>May, 2021</i>

Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.