











Vestfrost Solutions is working towards reaching the UN - Global Sustainable Development Goals by 2030.

The Sustainable Development Goals are the blueprint to achieve a better and more sustainable future for all.

In order to implement Goal no 12 "Responsible Consumption and Production", this manual has been printed on recycled paper.





VLS 026 SDD / VLS 056 SDD



WARNING

As the appliance contains flammable refrigerant, as stated on nameplate, it is essential to ensure that the refrigerant pipes are not damaged.

The quantity and type of the refrigerant used in your appliance is indicated on the rating plate.

Standard EN378 specifies that the room in which you install your appliance must have a volume of 1m³ per 8 g of hydrocarbon refrigerant used in the appliances. This is to avoid the formation of flammable gas/air mixtures in the room where the appliance is located in the event of a leak in the refrigerant circuit.

WARNING:

Ventilation openings in the appliance or in built-in structures must be kept clear.

WARNING:

Do not use other mechanical devices or means to accelerate the defrosting process or to remove rime other than those recommended by the manufacturer.

WARNING:

Do not damage the refrigerant system.

WARNING:

The appliance may not be exposed to rain.

WARNING:

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance

WARNING:

Children must not play with, on, or around the appliance.

WARNING:

Children must not clean the appliance or carry out general maintenance unless they are at least 8 years old and are being supervised.

WARNING:

Always, keep the keys in a separate place and out of reach of children.

WARNING:

Before servicing or cleaning the appliance, switch off circuit breaker.



WARNING:

Danger risk of fire or explosion. Flammable refrigerant used, as stated on nameplate. To be repaired only by trained personnel.

WARNING:

Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

WARNING:

When positioning the appliance, ensure the supply cord is not trapped or damaged.

WARNING:

Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance.

WARNING:

Appliance use flammable insulation blowing gas.

For information about safe disposal, please contact your local disposal service.

See section for Disposal.



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PQS Code	Model	PQS Performance specifications Specification reference:	PQS Independent type-testing protocol Product verification protocol:
E003/091	VLS 026RF SDD	E003/RF05.4	E003/RF05-VP.4
E003/092	VLS 056RF SDD	E003/RF05.4	E003/RF05-VP.4

Periodic preventive maintenance checks

Daily Check:

Monitor Temperature
Internal lid is placed properly
Lid fits and lock tight to cabinet
Lid gasket not faulty.
Condensation build up in vaccine compartment.

Weekly maintenance:

Remove any water at the bottom of the refrigerator with a cloth.
Wipe of water droplets on the inside wall.

Monthly maintenance:

Clean grille for compressor compartment.

6 Month:

Clean condenser coils

Yearly maintenance:

Check electrical connections and components.

Check electrical connections, cables, wirings from PV panel system.

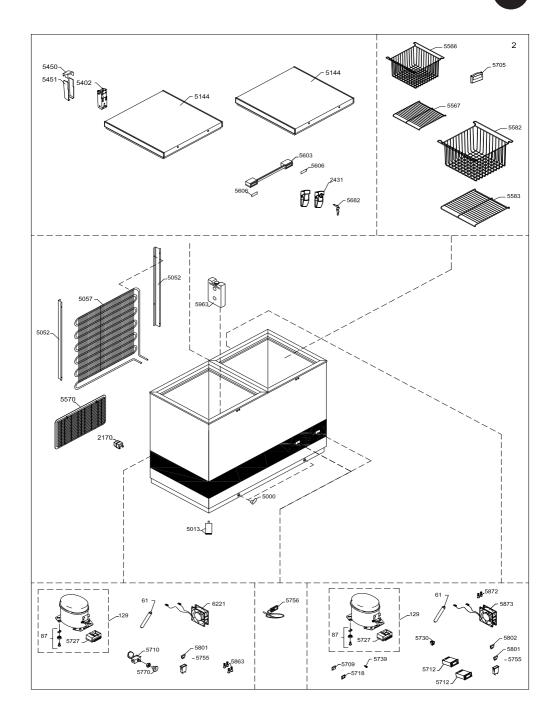
Regularly:

Clean Solar Panels
Check Solar Panels are not shaded at any
time of the day



Complete spare part list VLS 026_56 SDD

Position	Item number	Item name
0061	0-6538001	Filter drier,
0087	0-6038175	Base plate fittings, complete
0129	8-036510223	Compressor - BD35K 101Z0211 10-45V - ECU 6520845
2170	0-A9301260103	Distance piece
2431	A915010	Lock complete snap locks
5000	3010049	Drain plug
5013	3040400	Adjustable foot
5052	2042052-01	Mounting plate for condenser VLS024
5057	6010436	WOT condenser
5144	520002400170	Lid foamed without handle/hinges
5402	1510059	Hinge
5450	3011135-01	Top part for hinge cover
5451	3010032-01	Bottom part for hinge cover
5566	3510054	Basket VLS024/HFK024
5566	3510054	Basket VLS024/HFK024
5567	3510056	Bottom grating VLS024/HFK024
5567	3510056	Bottom grating VLS024/HFK024
5570	2043684-01	Motor screen
5582	3510517	Basket VLS048/HFK048
5583	3510518	Bottom grating VLS048/HFK048
5603	8471782	Handle
5606	8090054	Inlay for handle,
5606	8090342-94	Inlay for handle,
5682	1510255	Nikel-plated Key
5705	7020406	Temperature monitoring device Fridge-Tag 2E
5709	7060104	Frame for cover rocker switch bezel
5710	6520038	Thermostat, freezer
5712	702090046	Safety,Thermostat XR10CH incl. sensor
5712	702090045	Thermostat XR30CH incl. sensor
5718	7060105	Rocker Switch Cover
5727	6520845	Electronics for BD35K compressor
5730	7020245	"on-off" switch
5739	7010139	Status indicator
5755	7060062	Fuse holder
5756	7020382-03	Thermometer, solar
5756	7020392-03	Thermometer, solar
5770	3010005-01	Thermostat knob
5801	8470156	Fuse 15A
5802	7060097	Fuse T1A
5863	A903019	"Well-nut", Screw,
5872	A903007	"Well-nut", Screw,
5963	A93010357	ICE-PACK 0,6 L
6221	7030823	Fan





Vital components

Positio	on Item no	Description	
0129	8-036510223	Compressor	
5712 5712	702090045 702090046	Thermostat Safety Thermostat	
5727	6520845	Starting Device ECU	
6221	7030823	Fan	
PV Sol	ar Panel Kit 2x180	ow .	



Health and safety guidance – Warning!

Before any repair job be aware of following!

WARNING:

Before servicing or cleaning the appliance, disconnect it from power source.



WARNING:

Danger risk of fire or explosion. Flammable refrigerant used. To be repaired only by trained personnel.

(R600a)





Required basic tools

1.Flexible socket wrench - size 7+13mm

2.Nose plier

3.Screwdriver - size 1,0x6,0 + 0,6x3,5

4. Phillips screwdriver

5.Torx screwdriver - size T10 + T20

6.Clamp meter

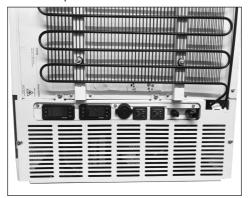
7.Multimeter

Proposed additional service kit/items Sealing kit Tar tape Extra self-tapping screws

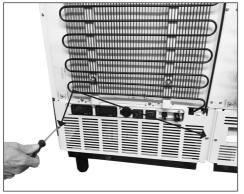


Motor compartment

How to get access to the motor compartment.



1. On the backside you will find two engine compartments each covered with a metal grill



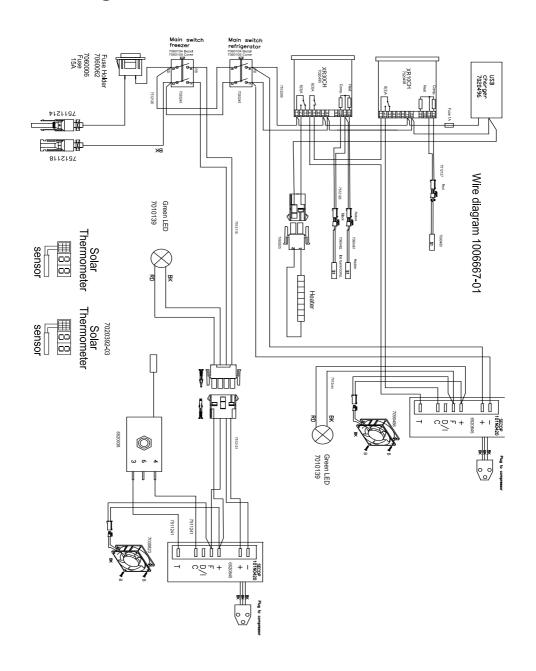
2. Unscrew the two screws on each grill



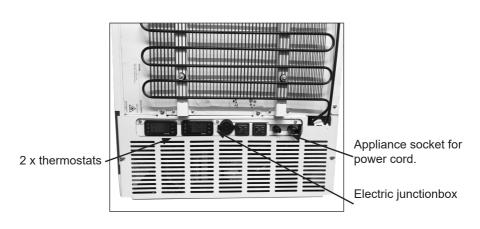
3. Remove the grill

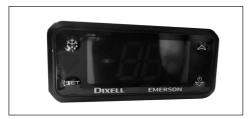


Wire diagram



Refrigerator Thermostat Replacement

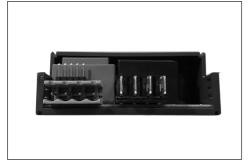




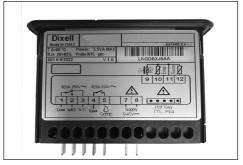
Front with display and adjustments buttons for safety



Front with display and adjustments buttons for cooler



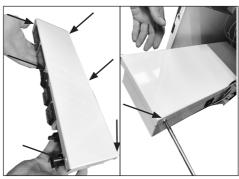
Back with electrical sockets



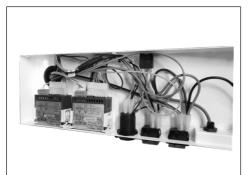
Top view



1. Take the box out



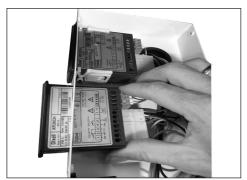
2. Dismount 6 x Torx 20 screws



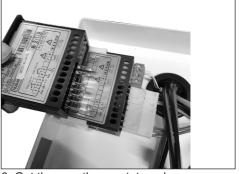
3. Open junction box lid, dismount earth wire and remove lid.



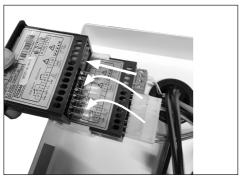
4. Push clip on both sides.



5. Push the thermostat out of the junction box.



Get the new thermostat and uncrew wires from socket



7. Switch the wires from old to new thermostat one by one



Place the thermostat back in place of the junction box



 Use your finger to press/slide the back the fixing clamps to fasten the thermostat body



It's the same procedure that needs to be done for both of the thermostats



Fuse replacement



1. If the fuse is burned. It need to be replaced. The fuse is placed on the back of the electric junctionbox



2. Use the small fuse- tool supplied together with spare fuses in the small plastic bag together with appliance.

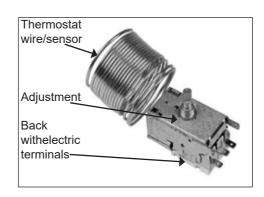


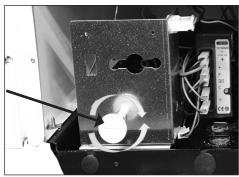
3. Pinch the tool to the fuse and pull the tool and fuse

Freezer Thermostat Replacement

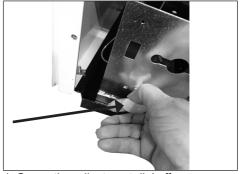


The thermostat is placed in the left corner of the compressor compartment

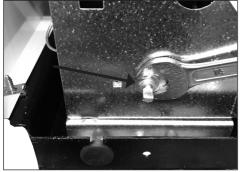




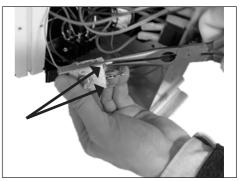
1.Adjustment:
Rotation clockwise warm to cold
IMPORTANT!
Always keep in coldest position



1. Screw the adjustment dial off



2.Screw the size 14 bolt holding the thermostat in place off

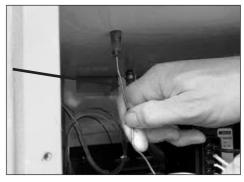


3. Remove the two powwireser

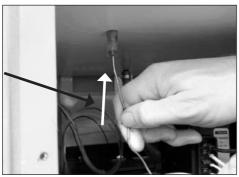




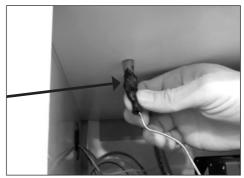
4. Remove sealing kit from thermostat wire tube



5. Carefully pull the thermostat wire out



6. Push the new thermostat wire back up with care and make sure it is inserted all the way.



7.**IMPORTANT!**Remember to put the sealing kit back in place

Thermostat programming

Front panel commands



SET	To display target set p	point.		
JLI	In programming mode	e it selects a parameter or confirm an operation.		
*	(DEF) To start a manual defrost			
	(UP) To see the max	stored temperature. In programming mode it		
	browses parameters	or increases the displayed value.		
V	(DOWN) To see the min stored temperature. In programming mode it			
	browses the parame	ters or decreases the displayed value.		
(1)	To switch the instrument off, if onF = oFF			
-;\$:	Not enabled			
	+ 🕶	To lock and unlock the keyboard		
SET	+	To enter in programming mode		
SET	+	To return to the room temperature display.		



Main functions

How to see the set point

- 1. Push and immediately release the SET button. The display will show the set point value.
- 2. Push and immediately release the **SET** button or wait for 5 seconds to display the probe value again.

How to change the set point

- 1. Keep **SET** button pressed more than 2 seconds to change the set point value.
- 2. The value of the set point will be displayed and the "°C" or "°F" LED starts blinking.
- 3. To change the set point value push the **UP** or **DOWN** buttons.
- 4. To memorize the new set point value push the **SET** button again or wait for 10 sec.

How to change a value

To change the parameter's value operate as follows:

- Enter the programming mode by pushing SET + DOWN for 3 sec. The "°C" or "°F" LED start blinking.
- 2. Select the required parameter. Press the "SET" key to display its value
- 3. Use **UP** or **DOWN** to change its value.
- 4. Press **SET** to store the new value and move to the following parameter.

To exit: Press SET + UP or wait for 15 sec without pressing a key.

NOTE: Factory default set point for VLS 026/056 SDD = 3 °C

Starting Device Replacement



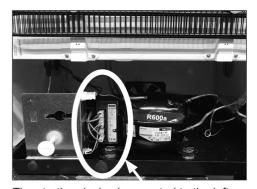
Starting device: Back, Front with terminal board.



 Loosen the phillips screw a couple of turns



3. Unclick plastic cover/starting device from compressor bracket.



The starting device is mounted to the left side of the compressor.



2. Place a screwdriver in the small vent in the plastic cover.



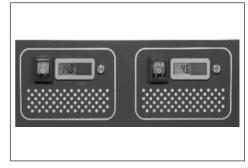
4. Use a screwdriver to disconnect the socket from compressor.



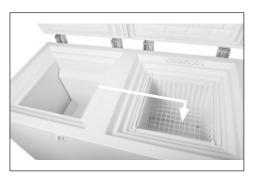
Thermometer replacement



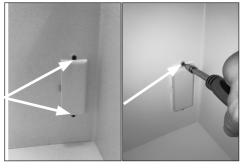
The thermometer is placed in at the front of the appliance.



Thermometer display.



The thermometer sensor is placed inside the compartment of the appliance.



1: Dismount the temperature sensor cover by loosen the 2 x torx screws – size 10.



2. Remove the wire sealing and the sensor from the cover.



3. Remove the two sensors from the housing



 Remove black sealing tar-kit and gently pull the white wire until the probe is visible.



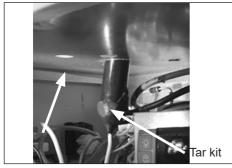
5. Temperature sensor.



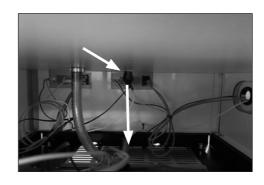
6. Thermometer comes with wire and sensor.



When re-mounting the new thermometer make sure the wire sealing is placed properly.

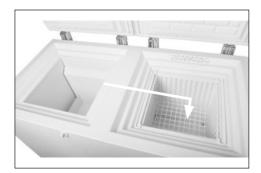


8. **IMPORTANT!**When re-mounting the new thermometer remember to properly seal the wire feed through.

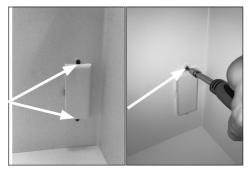




Thermostat sensor replacement



The thermometer sensor is placed inside the compartment of the appliance.



1: Dismount the temperature sensor cover by loosen the 2 x torx screws – size 10.



2. Remove the two sensors from the housing



3. Remove the wire sealing and the sensor from the cover.



4. Remove the two sensors from the housing



Remove black sealing tar-kit and gently pull the black wire until the probe is visible



6. The thermostat sensor comes with probe, wire and cable socket.

Probe

Cable sockets



Tar kit

7. IMPORTANT!
When re-mounting
the new thermometer
remember to properly
seal the wire feedthrough



8. IMPORTANT!
When re-mounting
the new thermometer
make sure the wire
sealing plug is placed
properly



Compressor replacement

Procedure of compressor switch.

- 1: **WARNING!** Drain coolant R600a from refrigeration system by vacuum suction.
- 2: **IMPORTANT!** Blow refrigeration system with NO/Nitrogen
- 3: Cut
 - A: Suction and pressure tube
 - B: Capillary tube
 - C: Dry filter
- 4: Dismount starting device ECU
- 5: Dismount old compressor
- 6: Insert new compressor
- 7: Solder
 - A. Suction and pressure tube
 - B. Capillary tube
 - C. Dry filter
- 8: Install starting device ECU

IMPORTANT! When solder copper tubes to iron tubes use silver tin

Filling of new refrigerant

- 9: Drain refrigeration system by vacuum suction
- Check type sticker for required amount of R600a to fill on refrigerant system

Fill 50g of R600a refrigerant on the system

Trouble shooting

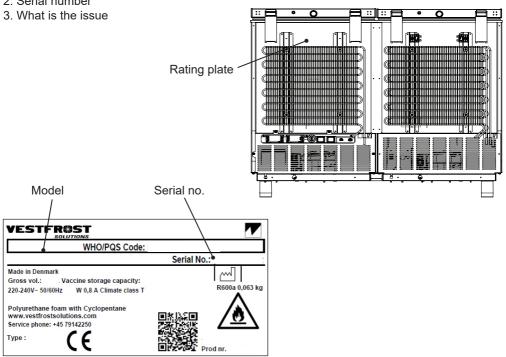
Fault	Possible cause	Remedy	
Compressor is not running.	Be patient, it is most likely that the compressor will start within a	If this is not the case, check the following:	
	few minutes.	- Check that power is connected and that the wire from the solar panel to the appliance is intact.	
		- Check the fuse and replace it if necessary.	
		- If the above is OK, call technical supervisor.	
Compressor is run- ning, and the tempe- rature is too high.	The ventilation grille is blocked.	Ensure unhindered air circulation.	
3	The lid is not closed properly. Ensure that the lid is closed properly.		
	The fan in the compressor compartment is blocked or defective.	Check that the fan is running, if not it should be replaced.	
	The temperature in the room in which the appliance is installed is too high.	Shield the appliance against direct sun light and ensure more ventilation to the room.	
Temperature in VLS SDD is too low.	To low set point on digital controller.	Concact technical supervisor for adjusment.	
No temperature is displayed.	There is not enough light for the solar sensor.	Turn on the light.	
No light in green diode during day	Switch is turned OFF	Turn on the switch.	
time.	Fuse is burned	Replace the fuse.	
	Diode is defect	Replace diode.	



Technical support

If contacting Vestfrost Solutions technical support please supply below information:

- 1. Model
- 2. Serial number



Contact:

Vestfrost Solutions

Tel. +45 75142250

cce-service@vestfrostsolutions.com

Or visit our service-center webpage:

http://www.vestfrostsolutions.com/service-center/



Recycling procedures

Information for Users on Collection and Disposal Old Equipment and used Batteries



This symbol on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2012/19/EU and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.