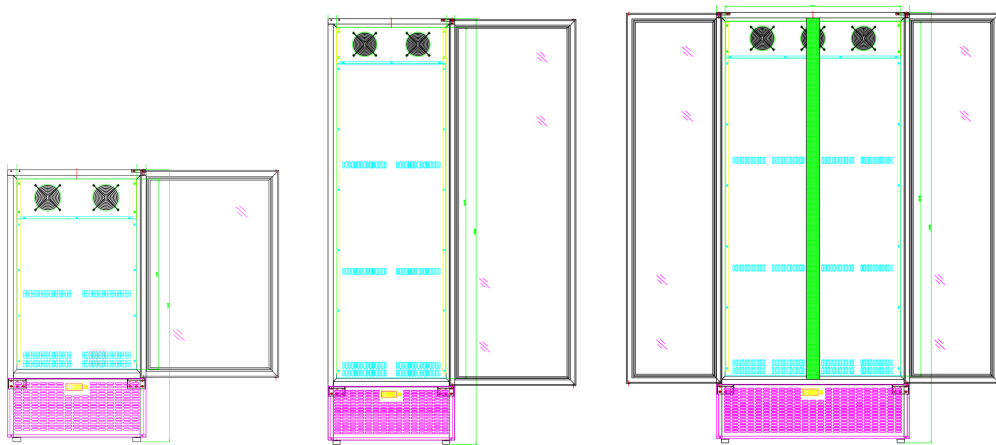


Models SK220 422 668

Operation Manual



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1. GENERAL INFORMATION

Model	SK220	SK422	SK668
Climatic Class	T(Tropical)		
Storage Temperature	0 to 10°C (Maximum Ambient43°C)		
Anti-shock Protection Class	I		
Capacity (Liter)	220	422	668
Voltage/Frequency	220/240V-50/HZ		
Light(Watts)	13.5W	24W	26.5W
Refrigerant(g) R600a	40	85	92

1.1 Foreword

The purpose of this document is to provide important information regarding the installation, use and maintenance of the cooler.

Before any operation, you should read carefully the information contained in this manual. The manufacturer assumes no liability for parts or labour coverage for component failure or other damages resulting from improper usage, installation or failure to clean and / or maintain product as set forth in these instructions.

1.2 GENERAL USE



The cooler is designed for commercial use, warranty is voided if incorrectly placed or unit is subjected to environments including actions of atmospheric agents (rain, direct sun light). It's sub-tropical rating means it will chill and work, but cannot be in direct sunlight or weather.

The manufacturer is not responsible for damages resulting from the improper use of the product.

1.2.1 CHILDREN

Children should be supervised to ensure that they do not play with the appliance.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

– WARNING: Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

- WARNING: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

- WARNING: Do not damage the refrigerant circuit.

WARNING: Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

Do not Store explosive substances such as aerosol cans with a flammable propellant in this appliance. Don't store flammable liquids near unit that may omit vapour.

Unplug unit when not in use and also when maintenance and cleaning is taking place.

Correct Disposal of this product



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



Caution: risk of fire.

Safety

- Do not pull plug directly from socket without turning 'OFF' first
- Do not try to access unit electrics unless authorized to do so and unless unit is "OFF" and "UNPLUGGED"
- Do not have items near unit that could be damaged by heat, the condenser coils are located in the walls so these get quite warm (40oC) during normal operation
- Do not rest heavy items (including the fridge) on the electrical lead
- Queensland** installation/servicing requirement: Needs a Gas Repair Job (hydrocarbon refrigerants) if the appliance gas system is being opened or charged.



1.3 CONTROLLER SETTINGS

Danfoss digital thermostat controller:



Operation

Programming Tools

The controller can be configured in four ways:

Using:

- KoolProg and KoolKey as Gateway
- KoolKey as Copy key
- KoolKey with Docking station
- Buttons on the front panel of the controller.

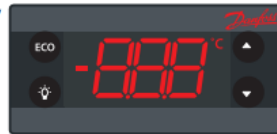
All these tools are supplied separately.

For technical literature and further information, please contact your local Danfoss representative.

Manual operation with buttons (Direct Access)

1 Press: variable direct function, e.g. "ECO"/"Night mode"
Sub function: back

1 Press: variable direct function, e.g. light
Sub function: "OK"



1 Press: temperature set point
Sub function: "up"

1 Press: temperature set point
Sub function: "down"

Examples

Changing the Desired Temperature Set point:

1. The display shows the current temperature.
2. Press "up/down" to access set point.
3. Press "up/down" to adjust set point.

After 30 seconds, the display automatically reverts to showing the current temperature

Turning ON/OFF the ECO Function:

1. Press "ECO".

The green "ECO" symbol is lit when in "ECO" mode.

Turn ON/Off the Light:

1. Press the "Light" button.

Acknowledging Alarms:

1. Display Flashing the alarm message.
2. Press any button to acknowledge.

Password protection:

1. Press "^" and "v" together and hold 5 seconds to access the menu.
2. The display shows "PAS" (only if configured for password protection).
3. Press "OK".
4. Press "^"/"v" to the code.
5. Press "OK".

Password protection on three levels:

1. Level 1: "shop" (daily use by shop personnel).
2. Level 2: "ser" (service technician).
3. Level 3: "OEM" (OEM programming).

Changing a Parameter

Some parameters may be hidden to you. Your access level will determine which parameters you can view and edit:

1. Press "^" and "v" together and hold 5 seconds to access the menu.
2. First parameter group is shown "tHE".
3. Press "^" and "v" to find the desired group.
4. Press "OK".
5. First parameter is shown.
6. Press "^" and "v" to find the desired parameter.
7. Press "OK".
8. Press "^" and "v" to find the desired setting.
9. Press "OK".

After 30 seconds, the display automatically reverts to showing the current temperature. Or Press 2 x "Back".

NOTE:

Incorrect parameter settings can lead to inadequate cooling, excessive energy consumption, unnecessary alarms and in the case of temperature-sensitive food storage, breaches in food hygiene principles and regulations.

Only a trained operator should make changes to parameters.

1.4 RESPONSIBILITY OF THE CUSTOMER

Ensure that the electrical outlet is connected effectively to earth (ground), suitable to provide the voltage indicated on the data plate. Make sure that the cooler is placed on a level surface.

2. TECHNICAL DATA

2.1 MATERIALS AND REFRIGERANTS

Interior or exterior surfaces that come into contact with the product are made of galvanized steel, aluminium or non-toxic plastic materials. The refrigerant used is approved by government regulations.

The type and quantity of the gas charged, in the refrigeration unit, is indicated on the data plate, this unit is R600A.

3. INSTALLATION

For safe proper operation, follow the manufacturers instructions reported in this section.

3.1 POSITIONING

IMPORTANT NOTE: Coolers that have been tilted **MUST** remain in the upright position for 24 hours prior to plugging in the cooler, the cooler must be placed in an adequately ventilated room. Keep away from heat sources, such as radiators or air conditioning pipes. Allow free air circulation to the refrigerator unit.

The installation instructions furnished with the device indicate a clearance of min 50mm at top, 150mm at the rear and min 50mm at each side.

The ambient temperature must not be higher than 32°C (90°F) for optimal performance, units will however run in higher ambient temperatures.

The shelf can withstand the maximum load 50kg

3.1.1 Cooler Levelling: To provide the best performance the cooler must remain level.

3.2 ELECTRICAL CONNECTION

WARNING DO NOT USE EXTENSION CORDS

The cooler works on single-phase voltage (220-240V/50Hz) power supply. To switch on the cooler, insert the plug into the outlet.

Ensure that: .

When the cooler is operating, check that the supply voltage is not dropping or increasing under/over +10% the rated voltage (195 Volts to 253 Volts)

*Ensure the cooler is connected to correct voltage prior to plugging it in; there is a description to identify the correct voltage on rear of the cooler.

*The vent should not be blocked when fridge is working (front Grill).

*Avoid any water dropping or leaking into, or on top of the cooler. It could cause damage to the internal workings and is potentially dangerous.

*Danger-Risk of fire or explosion. Flammable refrigerant used. Do not use mechanical devices to defrost refrigerator. Do not puncture refrigerant tubing.

*Danger-Risk of fire or explosion. Flammable refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing. Consult repair manual/owner's guide before attempting to service this product. All safety precautions must be followed.

The manufacturer is not responsible for damages or accidents arising from the misuse or disregard of electrical laws relevant to the country where the cooler is used.

4. MAINTENANCE

- Before cleaning the cooler always remember to unplug it.
- Unplug the cooler at the electrical outlet; never pull the service cord.
- Do not use sharp objects for cleaning.
- Clean the inside cabinet of cooler with a clean damp cloth or with neutral soap. Avoid damage by never using abrasive or flammable cleaning products.
- Clean the condenser at least once a month with a vacuum cleaner or a brush to eliminate the dust accumulation. This is located at rear bottom and is the big wire part
- Do not wash the cooler with direct or high pressure water jets.
- Clean door seal annually using clean cloth and eucalyptus oil

5. TROUBLE SHOOTING

Often problems that occur during normal operation can be resolved without the assistance of a specialized technician. Before calling the technical assistance, verify the following:

a) The appliance does not operate.

- Check that the plug is correctly inserted into the electrical outlet.
- Verify that there is voltage at the electrical outlet (Use another Appliance in same socket)

b) The product is too warm.

- Check the setting of the thermostat. (See 1.3 Testing Section)
- Check the closing of the door, and ensure door gasket seals.
- Check that the interior fan is operating, and not blocked.
- Check and clean the condenser located at rear bottom section near compressor

c) The appliance is excessively noisy.

- Verify the equipment is level.
- Ensure that the equipment is not touching other equipment that could cause vibration, like piping touching metal cover or other parts.
- If fan is causing noise it may be faulty bearing

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