

SC430N

Upright Glass Door Fridge



SC430N
Single Door Vertical Fridge
User Manual

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SKOPE INDUSTRIES LIMITED

Head Office
PO Box 1091, Christchurch
New Zealand
A.B.N. 73 374 418 306
AU: 1800 121 535
NZ: 0800 947 5673
E-mail: skope@skope.com
Website: www.skope.com

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1 Installation

Safety First Always observe safety precautions when using any electrical appliance. Read these instructions carefully and retain them for future reference.

WARNING

- Ensure the appliance is disconnected from the power supply before performing any cleaning or maintenance.
- Do not cover the grilles or block the entry or exhaust of airflow by placing objects against the refrigeration unit.
- Should manual defrosting be necessary, turn off the refrigeration system and allow the ice to melt by air circulation. Do not use mechanical methods to remove ice, as this may damage the refrigeration circuit.
- Do not use any electrical devices or appliances inside the food storage compartment.

- ▣ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction 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.
- ▣ Do **not** use this appliance for other than its intended use.
- ▣ Do not insert fingers/foreign objects into any holes.
- ▣ Only use this appliance with the voltage specified on the cabinet rating label.
- ▣ Ensure the appliance has adequate ventilation as this is essential to economical, high performance.
- ▣ Be careful not to touch moving parts and hot surfaces.
- ▣ For your own safety and that of others, ensure that all electrical work is done by authorised personnel.
- ▣ If the power supply flexible cord becomes damaged, it must be replaced by an authorised service agent or similarly qualified person in order to avoid a hazard.
- ▣ Ensure all necessary safety precautions are observed during installation or removal of the refrigeration unit.
- ▣ The appliance is not designed to be stable while in motion. Use extreme caution when moving or transporting it.
- ▣ Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- ▣ Do not exceed a maximum load of 20kg per shelf.
- ▣ If the cabinet is to be scrapped, ensure the cabinet is unplugged from the power supply and cut off the mains flex close to the back of the cabinet. Be mindful of the risk of animals or children becoming trapped in the appliance – either remove or secure doors if necessary.
- ▣ Refrigerant must be removed by a qualified service person and the cabinet recycled/disposed of in accordance with local regulations.

This cabinet is designed to operate within a specific climatic class environment.

See the cabinet rating label inside the cabinet for climate class number..

Climate class	Ambient temperature	Relative humidity
3	25°C	60%
4	30°C	55%
5	40°C	40%
7 (tropical)	35°C	75%

The cabinet includes relevant hazard symbols that may be associated with the fridge. Refer to the information below for symbol description.



WARNING

The refrigeration system contains flammable R290 refrigerant. Do not tamper with it. The refrigeration system must only be serviced by qualified personnel.

Positioning the Fridge

Climate Class This fridge is designed to operate within a climate class 5 environment (40°C @ 40% relative humidity).

Fridge Location The location of the fridge may be the single most important decision that will extend its life and ensure economical, high performance. Select a suitable location for the fridge away from direct sunlight and heat sources.

Allow adequate space for the door to open and close properly. Self-closing doors have internal torsion bars pre-tensioned at the factory.

Ensure the cabinet sits on a level surface so that the door shuts and correctly seals, and that the doors are unobstructed. Being on a level surface also prevents the condensate tray from overflowing.

Ventilation Ensure adequate ventilation is provided around the fridge. The fridge should not be recessed or enclosed in a cabinet. It is designed for free standing installation only. A 100 mm gap must be left behind the cabinet.

CAUTION

To prevent overheating and conserve energy, ensure air flows freely all around the fridge. There **MUST** be a minimum 100 mm gap behind the fridge.

Power Cord The fridge is fitted with a 1.7 m flexible power cord with a 3-pin plug, which exits the rear of the refrigeration system. Pull the power cord around so that it's not trapped before you position the fridge.

Stabiliser Feet Adjust the front stabiliser feet (see below) to ensure the fridge sits firmly on a level surface so that the door shuts and correctly seals. Turn anti-clockwise to raise and clockwise to lower the stabiliser feet.

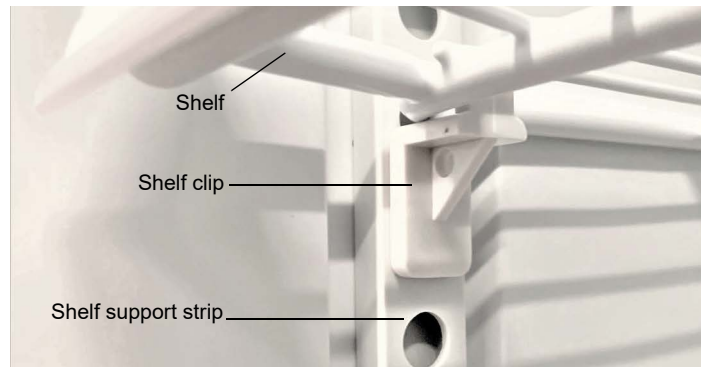


Fridge stabiliser foot

Setting Up the Fridge

Unpacking Remove all packaging material from the inside and outside the fridge, including the foam base and all adhesive tape holding the cabinet shelves and accessories.

Shelves The fridge is supplied with five wire shelves which may be positioned at different heights to suit various products. Each shelf is held in place with four shelf clips which engage in the shelf support strips.



To fit the cabinet shelves

1. Unpack the shelves, shelf clips and ticket strips from inside the cabinet.
-

2. Clip the ticket strips onto the front upstand on the front of the shelves.



3. Establish the desired position for the shelves and securely engage a shelf clip in each of the shelf support strips.
 4. Sit the shelves onto the shelf support clips.
-

Water Disposal Pan Install the water disposal pan to the bottom of the cabinet.



2 Operation

Automatic Start-Up

After the cabinet has been positioned in a suitable place, plug it in and check the following activity.

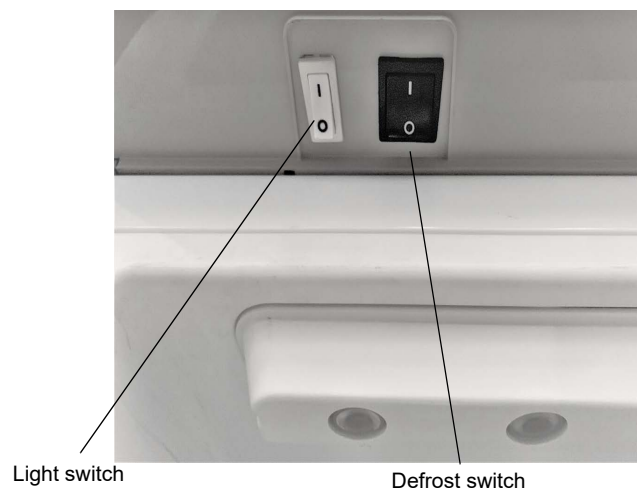
Item	Activity
Electronic Controller	An electronic controller runs the fridge and is visible in a cutout below the sign. The display panel on the electronic controller shows the cabinet internal temperature.
Lighting	The lights that illuminate cabinet interior will come on when the fridge is turned on. If the lights do not come on, check the light switches on the sign front panel and switch them on (see "Lighting" below).
Refrigeration System	The refrigeration system will start a few seconds after the fridge is turned on. To verify, listen for the compressor and check that the refrigeration system light is lit on the electronic controller. Note: If the cabinet is powered on and off repeatedly, the compressor may enter protection mode and stay off for 5 minutes.

Defrost Switch

If ice accumulates in the cabinet due to extreme operating conditions, a manual defrost may be performed by switching off the refrigeration using the switch provided. The cabinet internal fans will continue to run.

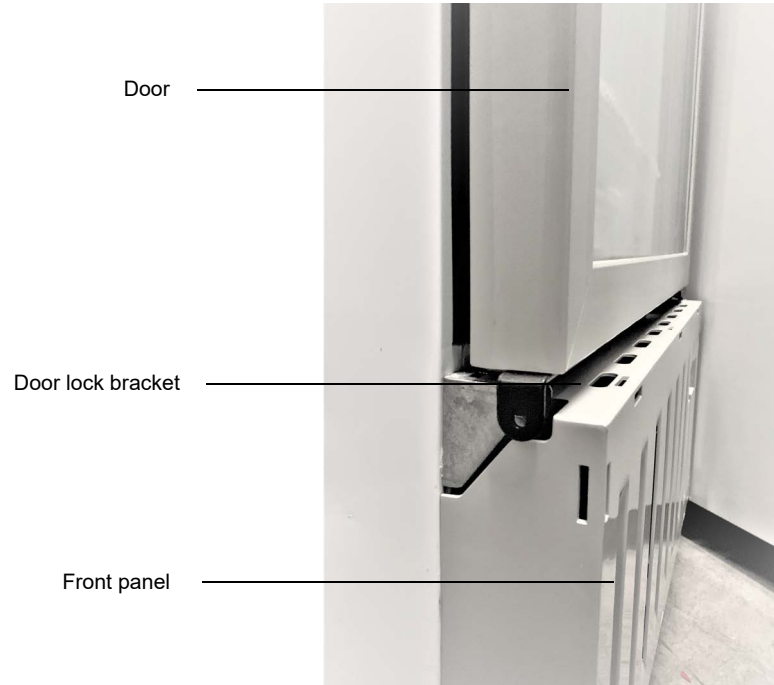
Lighting

The cabinet interior lights and sign light can be switched on and off using the interior light switch, located above the door. Open the door to access the light switch.



Door Lock

The fridge is supplied with a door lock bracket, located at the bottom of the door, which can be fitted with a lock.



Loading Product

Let the fridge run for three hours before loading it with product the first time. When loading the cabinet shelves with product:

- Allow adequate air space around each item to ensure even cooling and efficient operation of the fridge.
- Remove some product if the shelves are flexing. The maximum loading for each shelf is 20 kg.
- Do not let anything overhang the shelves, as this might stop the doors from shutting, or even break something.

Electronic Controller

Introduction The fridge is fitted with an electronic controller which is visible through a cutout below the sign. The electronic controller is pre-programmed and requires no initial setup or additional programming. SKOPE does not recommend changing the settings unless it is absolutely necessary.

Temperature Setpoint The fridge temperature is set to 0°C (temperature range 0.0°C to 1.5°C). The setpoint can be adjusted to other temperature ranges for specialist applications if required (see below).

SKOPE **DOES NOT** recommend changing the setpoint range unless it is absolutely necessary, and then only by small increments at a time.

To change the temperature setpoint range





1. Refer to the table below to determine the required temperature range.

Set	Temperature range	Set	Temperature range
0	0.0°C to 1.5°C	5	3.5°C to 5.5°C
1	0.5°C to 2.5°C	6	4.0°C to 6.0°C
2	1.5°C to 3.5°C	7	5.0°C to 7.0°C
3	2.5°C to 4.5°C	8	6.0°C to 8.0°C
4	3.0°C to 5.0°C	-	-

2. Press and hold the up and down buttons on the electronic controller for 3 seconds to unlock the controller.
3. Use the up and down buttons to scroll to the set number assigned to the required temperature range, as shown in the table above.
4. Once the desired set is displayed, leave the controller for 5 seconds. The display changes back to the cabinet internal temperature and the new set is saved.

Messages and Alarms The following table explains messages and alarms that the electronic controller displays.

Messages and alarms

Display	Description
	The cabinet internal temperature. The temperature is what the sensor inside the fridge detects, and not necessarily the product temperature. However, they may be very close depending on how the controller is set to sense temperature.
	Electronic controller lock indicator. On when the electronic controller is locked. Off when the electronic controller is unlocked. Press and hold the up and down buttons for 3 seconds to unlock the electronic controller.
	Compressor indicator. On when the compressor starts. Off when the compressor stops.
	Temperature sensor fault. This indicates a fault with the temperature sensor. Arrange a service call.

3 Servicing

Cleaning

Ensure the fridge is unplugged from the power supply before cleaning.

Cabinet Wipe the inside and outside of the cabinet with a damp cloth, taking care to keep moisture away from electrical parts.

Condenser Coil To ensure trouble-free performance, keep the condenser coil clean. We strongly urge monthly cleaning with a soft brush to remove dust and fluff. A more thorough cleaning is required by qualified service personnel every six months. The condenser coil **must** be kept clean for efficient and reliable operation.

The condenser coil is located at the front of the cabinet. Unscrew and remove the rear grille to access the condenser coil for cleaning.

WARNING

Unplug the fridge from the power supply before undertaking any cleaning.



Condenser coil

Lighting

The cabinet and sign LED lights are all non-serviceable and must not be tampered with in any way. If a light is suspected of being faulty, arrange a service call.

Troubleshooting

For questions about the electronic controller, see page 9. For problems with the cabinet and refrigeration unit, use the following table.

Problem	Possible Cause	Suggestions
<ul style="list-style-type: none"> • Cabinet not operating 	<ul style="list-style-type: none"> • Loss of power supply • Controller alarm 	<ul style="list-style-type: none"> • Check mains power supply. • Refer to "Messages and Alarms" on page 9.
<ul style="list-style-type: none"> • No controller display 	<ul style="list-style-type: none"> • Loss of power supply 	<ul style="list-style-type: none"> • Check mains power supply.
<ul style="list-style-type: none"> • Lights not on 	<ul style="list-style-type: none"> • Light switched off • Failed light 	<ul style="list-style-type: none"> • Switch light/s on (see page 10). • Arrange a service call.
<ul style="list-style-type: none"> • Power consumption is higher than expected 	<ul style="list-style-type: none"> • Unit operating too hot • Cabinet doors are opened excessively 	<ul style="list-style-type: none"> • Clean the condenser. • Ensure the cabinet is in a cool spot (see page 6). • Ensure the cabinet has good ventilation around the refrigeration unit (see page 6). • Ensure doors are closed more often.
<ul style="list-style-type: none"> • Product is too warm 	<ul style="list-style-type: none"> • Restricted airflow to cabinet 	<ul style="list-style-type: none"> • Ensure product is not blocking airflow slots. • Ensure there is space around individual product pieces.
<ul style="list-style-type: none"> • Warm cabinet temperatures • Compressor operating for long periods (more than 1 hour) 	<ul style="list-style-type: none"> • Blocked condenser • Poor ventilation around refrigeration unit 	<ul style="list-style-type: none"> • Clean the condenser. • Ensure the cabinet has good ventilation around the refrigeration unit (see page 6).

SKOPE Contacts

SKOPE Industries Limited

ABN: 73 374 418 306

AU: 1800 121 535

NZ: 0800 947 5673

skope@skope.com

www.skope.com