

# OD260

SKOPE Open Deck Chiller





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Helpful information is available on our website  
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Thank you for purchasing a SKOPE refrigeration product.

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# 1 Installation

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

- When the appliance is used by or near young children or infirm persons, close supervision is necessary, especially to ensure children do not play with it.
- Do **not** use this appliance for other than its intended use.
- Do **not** cover the grilles or block the entry or exhaust of airflow by placing objects up against the refrigeration unit.
- Do **not** probe any opening.
- Only use this appliance with the voltage specified on the cabinet rating label.
- Ensure the chiller 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 chiller 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.
- Please contact SKOPE Customer Services for advice regarding disposal of this appliance.

**WARNING**

Disconnect the cabinet from the mains power supply before attempting any cleaning or maintenance.

**CAUTION**

**Never** overload the power supply, which could damage the chiller and product. See the rating label inside the cabinet for the safe power supply and current draw.

**CAUTION**

Do **NOT** allow liquids or any other materials to drain into the bottom of the cabinet, as this could lead to refrigeration system failure.

## Positioning the Cabinet

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**Climate Class** The chiller is designed to operate within a climate class 3 environment (25°C @ 60% RH). We recommend that you put the chiller in the coolest place possible because it will use less power and last longer.

**Chiller Location** The location of the chiller may be the single most important decision that will extend its life and ensure economical, high performance. Ensure the cabinet sits on a level surface to prevent the condensate tray from overflowing.

**Air Movement** The cabinet must **NOT** be situated where it is affected by air-conditioning air outlets, ventilation fans or air re-circulation fans, or draughts from doorways, as this will compromise the airflow and thus product temperature in the open cabinet zone.

There must be **NO** air movement directly into the cabinet opening. Air movement will cause failure of the air curtain over the product, resulting in excessive temperature rise. Detectable air draft will adversely effect the cabinet operation. Maximum air movement across the cabinet opening must not exceed 0.2 m/s.

### IMPORTANT

There must be **NO** air movement directly into the cabinet opening.

**Power Cord** The chiller is supplied with a flexible power cord fitted with a 3-pin plug, which is packed separately inside the cabinet. Connect the power cord to the IEC socket on the back of the cabinet before moving into position.

**Ventilation** Adequate ventilation must be provided around the refrigeration unit and cabinet at all times. Refrigeration exhaust air must not be restricted, and must be able to easily flow out and away from the cabinet. Ensure there is unimpeded clearance in front of the kick panel at all times. Never store cardboard cartons or other items in the front or rear of the refrigeration unit.

### CAUTION

Ensure adequate ventilation clearance around the refrigeration unit and cabinet.

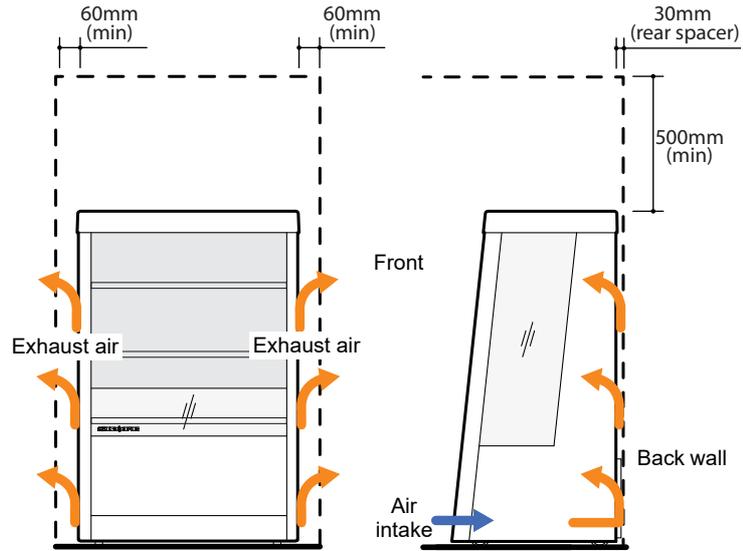
Determine if the installation is free-standing or enclosed, and ensure the installation meets the ventilation requirements detailed below.

#### Free-standing installations

Free-standing cabinets must be installed with the following minimum clearances (also see diagrams over page):

- 30mm behind (provided by the rear spacers on the back of the cabinet).
- 60mm on either side of the cabinet.
- 500mm above the cabinet.

If these clearances can't be met, the installation should be treated as an enclosed installation.



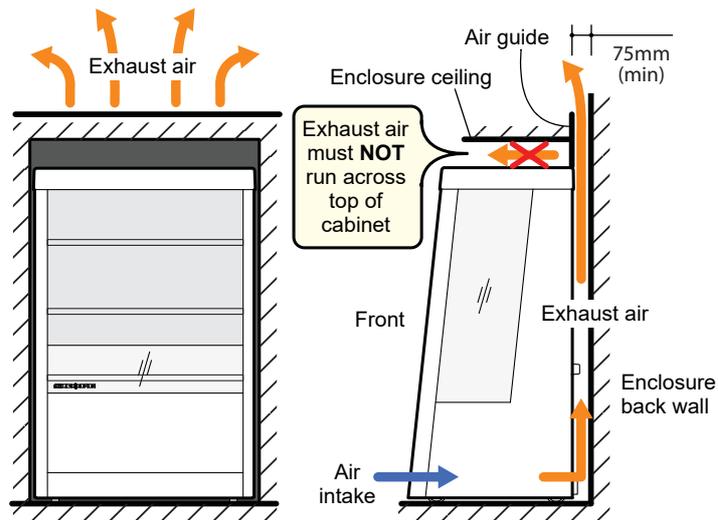
Free-standing installation ventilation requirements

**Enclosed installations**

Enclosed installations must have the following minimum clearances around the cabinet, and include the following features:

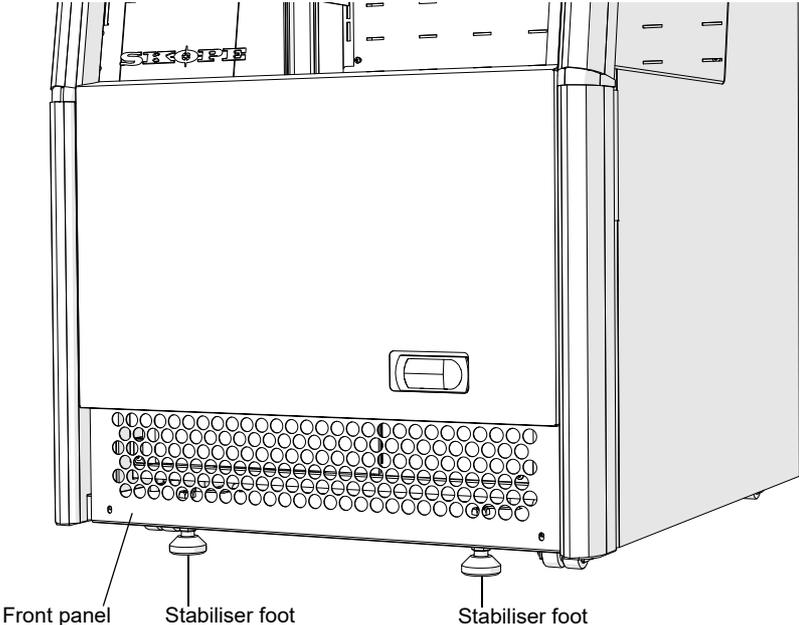
- 75mm behind the cabinet.
- An air guide must be used to ensure all refrigeration exhaust air is directed up and away from the cabinet.
- The air guide must also ensure the air exhaust outlet cannot be blocked by product or other items above the cabinet.

Refrigeration exhaust air must **NOT** be allowed to run horizontally across the top of the cabinet, as it may be pulled down into the cabinet interior.



Enclosed installation ventilation requirements

**Stabiliser Feet** Ensure the stabiliser feet are wound all the way up when moving the chiller around. Once the chiller is in position, wind down the two front stabiliser feet to firmly contact the ground.

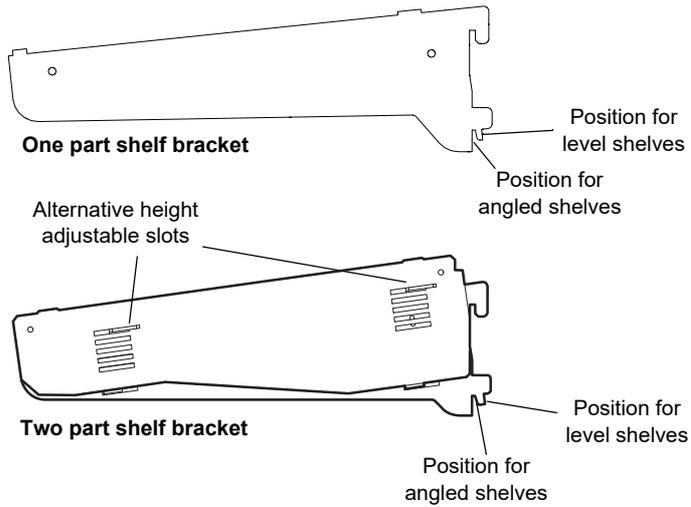


## Shelves

### Installing the Shelves

The chiller is supplied with three metal shelves. The shelves are different depths, with the top shelf being the shallowest and the bottom shelf the deepest. The bottom shelf is angled and fixed in position. The two top shelves are height and angle adjustable, and removable.

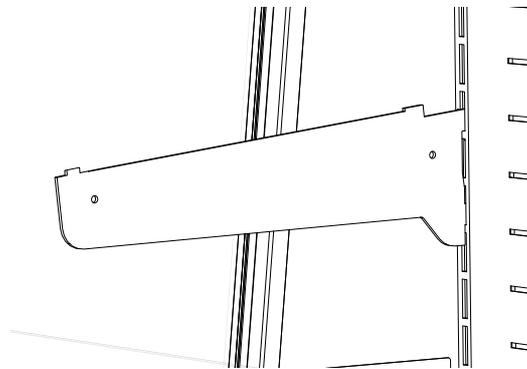
The two top shelves are each held in place by cantilevered shelf brackets which clip into cut-outs in the cabinet back duct. These brackets may be in one part or two parts. The two part version allows for additional 6mm interval height adjustments by separating the shelf bracket into two and re-slotting together using the alternative slots.



### To fit the shelves

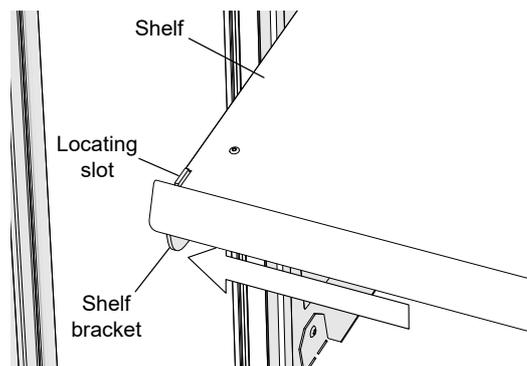
1. Clip the cantilevered shelf brackets into the slots in the cabinet back duct.

Use the different positions on the bracket to set the shelf angled or level (see image above).



2. Sit the corresponding metal shelf on the cantilevered brackets ensuring the back of the shelf clips over the rear of the brackets.

3. Push the cantilevered brackets outwards until they clip into the edge locating slots on the side of the shelf.



## 2 Operation

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### Automatic Start-Up

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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 chiller and is visible behind the front panel. The display panel first flashes start-up messages before stabilising on the cabinet temperature.
Lighting	The lights that illuminate the cabinet interior will come on approximately two seconds after the chiller is turned on.
Refrigeration unit	<p>The refrigeration unit evaporator and condenser fans should all operate continuously from the time the cabinet is plugged in. This may be verified by checking for air movement inside the cabinet. The internal cabinet air will continue to circulate at all times.</p> <p>The compressor will start after approximately one minute, will switch off when the cabinet internal temperature reaches approximately +1.5°C and on again at approximately +4°C.</p>

### Lights

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The chiller is fitted with two LED side lights. The lights can be manually switched on and off using the light button on the electronic controller faceplate (see page 11).

Lighting components must not be tampered with in any way. If a unit is suspected of being faulty, a service call should be arranged so that a replacement component can be fitted.

### Optional Night Blind

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The chiller may be fitted with a night blind which should be pulled down into the closed position during store closing hours to save power.

The night blind is located behind the sign panel and is not visible when in the open position.

To close the night blind, use the handle to pull the blind down and hook it under the night blind retaining brackets at the bottom of the chiller opening. To open, use the handle to release the blind from the retaining brackets and control the blind as it opens.

## Loading Product

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Let the chiller run for 30 minutes before loading it with product for 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 chiller.
- Remove some product if the shelves are flexing.
- Do not exceed a maximum load of 20kg per shelf.
- Do not load product over the return air grille.

## Electronic Controller

**Introduction** The chiller is fitted with a Carel S4 Evo electronic controller which is visible through a cutout in the cabinet front panel. The electronic controller is pre-programmed and requires no initial setup or additional programming. SKOPE does not recommend that the settings be changed unless absolutely necessary.

To achieve energy efficient operation, the electronic controller uses temperature probes to control and display the chiller temperature, collect data, signal temperature alarms and force a defrost cycle when required.

**Faceplate** Because the electronic controller plays such an important role, it's helpful to know the parts of the faceplate you may use.



No.	Item	Description
1		Digital display of cabinet temperature or messages. The temperature is what the sensor inside the chiller detects, and not necessarily the product temperature. However, they may be very close depending on how the controller is set to sense temperature.
2		<b>Up:</b> Button. Used for programming.
3		<b>Mute (set):</b> Button. Press to mute the alarm. Press and hold to access parameters.
4		<b>Light (down):</b> Button. Press to switch the cabinet interior light on and off.
5		<b>Defrost:</b> Indicator. ON when the defrost is activated. Flashes when the activation of the defrost is temporarily delayed due to procedures in progress.
6		<b>Compressor:</b> Indicator. ON when the compressor and condenser fan starts. Flashes when activation of the compressor is temporarily delayed.
7		<b>Fan:</b> Indicator. ON when the internal cabinet fans are activated. Flashes when activation of the fans is temporarily delayed.
8		<b>Alarm:</b> Indicator. ON when alarm is signalled.

**Lights** Press the Light button on the electronic controller faceplate to manually switch the cabinet light on and off.

**Temperature Setpoint** The chiller temperature setpoint is factory set at 2.0°C, and can be adjusted between 0.0°C and 4.0°C for other specialist applications if required (see below).

SKOPE do not recommend that the setpoint be changed unless it is absolutely necessary, and then only by small increments at a time.

**To view and adjust the temperature setpoint**

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1. Press and hold the **set** button for 3 seconds until **PS** is shown on the display, indicating entry into the controller settings menu.



2. Press the **up** or **down** button to scroll the menu until **St** is shown on the display.



3. Press the **set** button. The current setpoint value is shown on the display.
  4. Press the **up** or **down** button to increase or decrease the setpoint value to the required temperature.
  5. Press the **set** button to temporarily save the setpoint value.
  6. Press and hold the **set** button for 3 seconds to permanently save the setpoint value and exit the controller settings menu.
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**Messages and Alarms** The following table explains messages and alarms that the electronic controller displays.

**Messages**

Display	Description
20	The chiller is in 'Normal' mode and the electronic controller displays the chiller temperature.
CCP	The chiller is in Cold Climate Protection mode. The chiller enters cold climate protection mode if the room ambient temperature gets too cold. The lights remain on and cannot be switched off.

**Alarms**

E0		
E1	Probe fault. An alarm sounds. Contact a service agent.	
E2		
L0	Low temperature alarm. An alarm sounds. The temperature inside the chiller is too cold and an alarm sounds. The controller will automatically reset the alarm once the temperature inside the chiller raises.	
H1	High temperature alarm. An alarm sounds. The temperature inside the chiller is too warm and an alarm sounds. The controller will automatically reset the alarm once the temperature inside the chiller drops.	
cht	Refrigeration system high temperature Pre-warning (auto reset)	1. Check refrigeration ventilation and ensure the cabinet is installed in a suitable environment (see page 5).  2. To reset the 'CHt' alarm - unplug the cabinet from the power supply for 1 minute, then reconnect to power supply.  If alarm persists, contact a service agent.
CHt	Refrigeration system high temperature Shutdown (manual reset)	
ELO	Low voltage alarm. An alarm sounds. The mains voltage is low. An alarm sounds and the controller switches off the compressor. The controller will automatically reset the alarm once the mains voltage raises.	
EH1	High voltage alarm. An alarm sounds. The mains voltage is high. An alarm sounds and the controller switches off the compressor. The controller will automatically reset the alarm once the mains voltage drops.	
EE		
EF	Electronic controller fault. Contact a service agent.	

## 3 Servicing

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### Isolating Electrics

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The chiller should be isolated from the power supply before attempting **any** maintenance. Unplug the cabinet from the power supply to isolate.

### Lighting

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The cabinet is fitted with two LED strip side lights. If a light is suspected of being faulty, a service call should be arranged so that a replacement light can be fitted.

### Cleaning

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**Cabinet** Ensure the cabinet is disconnected from the mains power supply before cleaning the cabinet.

When necessary, wipe both the interior and exterior of the cabinet with warm soapy water and a soft cloth. Do **not** use chemical cleaners.

**CAUTION**

Do **NOT** wash any liquid down into the refrigeration system, as this could lead to refrigeration failure.

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

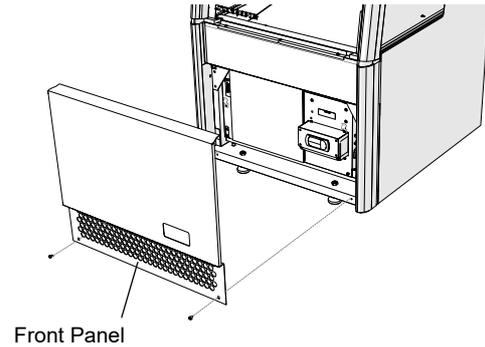
**WARNING**

Disconnect the chiller from the power supply before cleaning the condenser coil.

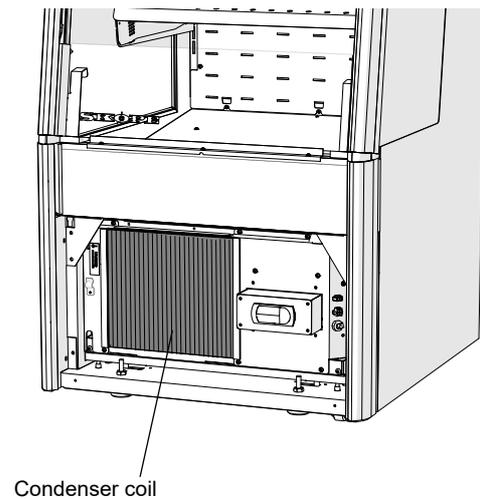
**To clean the condenser coil**

1. Disconnect the cabinet from the power supply.

2. Remove the front panel from the cabinet by undoing the fixing screws near the bottom of the panel and lifting it up and off the cabinet.



3. Brush the condenser coil with a soft brush



4. Refit the front panel and reconnect to the power supply.

## Troubleshooting

For questions about the electronic controller, see page 11. For problems with the cabinet and refrigeration cassette, use the following table.

<b>Problem</b>	<b>Possible Cause</b>	<b>Suggestions</b>
<ul style="list-style-type: none"> <li>• Chiller not operating</li> <li>• No controller display</li> </ul>	<ul style="list-style-type: none"> <li>• Loss of power supply</li> </ul>	<ul style="list-style-type: none"> <li>• Check mains power supply.</li> </ul>
<ul style="list-style-type: none"> <li>• Lights not on</li> </ul>	<ul style="list-style-type: none"> <li>• Light switched off</li> <li>• Lighting fault</li> <li>• Blown cabinet fuse</li> </ul>	<ul style="list-style-type: none"> <li>• Switch the light on with the light button on the electronic controller faceplate (see page 11).</li> <li>• Arrange a service call.</li> <li>• Arrange a service call.</li> </ul>
<ul style="list-style-type: none"> <li>• Power consumption is higher than expected</li> </ul>	<ul style="list-style-type: none"> <li>• Refrigeration unit operating too hot</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the condenser coil (see page 15).</li> <li>• Ensure the cabinet has good ventilation around the refrigeration unit (see page 5).</li> <li>• Ensure the cabinet is installed in a cool location within operating specifications (see page 5).</li> </ul>
<ul style="list-style-type: none"> <li>• Product is too warm</li> </ul>	<ul style="list-style-type: none"> <li>• Restricted airflow to cabinet</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure product is not blocking airflow slots.</li> <li>• Ensure there is space around individual product pieces.</li> </ul>
<ul style="list-style-type: none"> <li>• Warm cabinet temperatures</li> <li>• Compressor operating for long periods (more than 1 hour)</li> </ul>	<ul style="list-style-type: none"> <li>• Blocked condenser</li> <li>• Poor ventilation around refrigeration cassette</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the condenser coil (see page 15).</li> <li>• Ensure the cabinet is installed in a cool location within operating specifications (see page 5).</li> </ul>

## SKOPE Industries Limited

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- Applies any other trade mark to the product
- Adds to the product any written material that is likely to damage the reputation of the trade mark

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- Successors or assignees of the buyer
- Future owners of the product

OD260  
SKOPE Open Deck Chiller  
User Manual  
MAN80055  
Rev. 1.1 Nov. 2017

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