Blast Chiller / Freezer

Instruction Manual





Model
DN492-A DN494-A

Safety Tips

- Position on a flat, stable surface.
- A service agent/qualified technician should carry out installation and any repairs if required.
- Do not remove any components or service panels on this product.
- Consult Local and National Standards to comply with the following:
    - Health and Safety at Work Legislation
    - BS EN Codes of Practice
    - Fire Precautions
    - IEE Wiring Regulations
    - Building Regulations
- DO NOT use jet/pressure washers to clean the appliance.
- DO NOT use the appliance outside.
- DO NOT use this appliance to store medical supplies.
- DO NOT use electrical appliances inside the appliance (e.g. heaters, ice-cream makers etc.).
- DO NOT allow oil or fat to come into contact with the plastic components or door seal. Clean immediately if contact occurs.
- Always carry, store and handle the appliance in a vertical position and move by holding the base of the appliance.
- Always switch off and disconnect the power supply to the unit before cleaning.
- Keep all packaging away from children. Dispose of the packaging in accordance with the regulations of local authorities.
- The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction
- If the power cord is damaged, it must be replaced by a POLAR agent or a recommended qualified technician in order to avoid a hazard.

Product Description

DN492-A - POLAR Blast Chiller /Freezer
DN494-A - POLAR Blast Chiller /Freezer

Introduction

Please take a few moments to carefully read through this manual. Correct maintenance and operation of this machine will provide the best possible performance from your POLAR product.

Pack Contents

The following is included:

- POLAR Blast Chiller /Freezer
- Instruction manual

POLAR prides itself on quality and service, ensuring that at the time of packaging the contents are supplied fully functional and free of damage.
Should you find any damage as a result of transit, please contact your POLAR dealer immediately.

Installation

Note: If the appliance has not been stored or moved in an upright position, let it stand upright for approximately 12 hours before operation. If in doubt allow the appliance to stand.

1. Remove the appliance from the packaging. Make sure that all protective plastic film and coatings are thoroughly removed from all surfaces
2. Maintain a distance of 20cm (7 inches) between the unit and walls or other objects for ventilation. Increase the distance of the object is a heat source. Do not block front ventilation grills.

Note: Before using the appliance for the first time, clean the shelves and interior with soapy water.

3. Set the brakes on the castors to keep the appliance in position.

Operation

It is important that food entering the Blast Chiller/Freezer does not exceed a temperature of 90°C.

It is recommended that metal containers / trays are used as other materials such as plastic or polystyrene containers will act as an insulator and extend blast chilling times.

Sufficient space must be left between products in order to guarantee a sufficient flow of cold air. Ensure product is not in contact with the internal walls of the unit, and leave sufficient gaps between trays.

Never obstruct the inlet of the evaporator fans.

Products that are more difficult to chill because of their composition and size should be placed in the centre of the unit.

Blast chilling data refers to standard products (low fat content) with a thickness below 50 mm: therefore avoid overlaying products on trays or the insertion of pieces with a much higher thickness, as this will lead to an extension of blast chilling times. Always distribute the product well on the trays and in the case of thick pieces decrease the amount to blast chill.

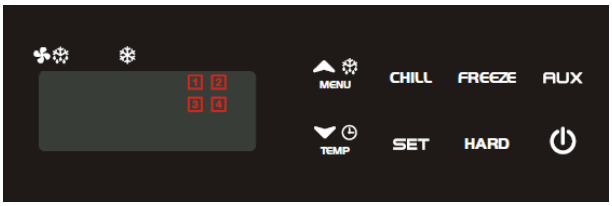
Limit the number of times and the duration of time the doors are opened.

The chiller should be used for storage for short periods only.

When removing product that has undergone blast chilling/shock freezing, always wear gloves to protect the hands from cold burns.

Turning on

In order to switch the unit on, press button. This will place the unit on standby whilst waiting for the cycle to be selected.



Inserting the food insert probe

Before selecting which cycle to use, the probe must be inserted into the food product. This allows the internal temperature of the food product to be measured. It is important that the probe is correctly connected to the unit, or an alarm will activate and the unit will not function.

Note: To prevent bacterial contamination or contamination of any other biological nature, the needle probe must be disinfected after use.



Selecting a cycle

The number on the operating panel corresponds to which cycle is selected. To alternate the cycle between hard and soft, press the 'hard' button. Once the required cycle's number is showing, select which type of operation you would like by using the 'freeze' or 'chill' button. Confirm your choice by pressing the same button once again. This will start the cycle.

Cycle 1 – soft chilling for delicate products (e.g. patisseries and vegetables)
1. After switching on the unit, icons 1 and 2 will flash. 2. Press and release the CHILL button. Icon 1 will remain on. 3. To start the cycle press and release the CHILL button.
Cycle 2 – soft freezing for delicate products (e.g. patisseries and vegetables)
1. After switching on the unit, icons 1 and 2 will flash. 2. Press and release the FREEZE button. Icon 2 will remain on. 3. To start the cycle press and release the FREEZE button.
Cycle 3 – hard chilling for general purpose foods (e.g. meat, pies and lasagne)
1. After switching on the unit, icons 1 and 2 will flash. 2. Press the HARD button. Icons 3 and 4 will turn on, indicating that hard chilling and hard freezing can be selected. 3. Press and release the CHILL button. The icon 3 will remain on. 4. To start the cycle press and release the CHILL button.
Cycle 4 – hard freezing for general purpose foods (e.g. meat, pies and lasagne)
1. After switching on the unit, icons 1 and 2 will flash. 2. Press the HARD button. Icons 3 and 4 will turn on, indicating that hard chilling and hard freezing can be selected. 3. Press and release the FREEZE button. The icon 4 will remain on. 4. To start the cycle press and release the FREEZE button.

Temporarily stopping the Running cycle

1. If you have selected a chill operation, press and release the CHILL button. If you have selected a freeze operation, press and release the FREEZE button.
2. The compressor and the fan will be stopped and the icon for the current cycle starts to flash.
3. To restart the cycle press and release the same key used to stop the cycle. The cycle will restart from the same point at which it was interrupted. There will be a 2 minute delay after stopping the generator in order to prevent the unit overheating.
4. If the cycle is not manually restarted the Chiller will automatically restart after 20 minutes.

How to stop a cycle

If you have selected a chill operation, press and release the CHILL key. If you have selected a freeze operation, press and release the FREEZE key. The unit will then switch off.

When a Cycle is Running

Display Temperatures

The upper display (in red) shows the temperature of the inside of the cabinet. The bottom display (in yellow) shows the temperature of the insert probe (ip1).

Probes ip2 & ip3 are not included, if displayed press the down key until ip1 is displayed.



Once the cycle has finished, the unit will beep to indicate the food has reached its desired temperature.

Manual Defrost

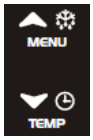
Assure that no cycle is active and that the hold mode function is not running.

- Hold and press the UP key for few seconds.

Note: The defrost will not be done if the temperature detected by the evaporator probe is higher than the stop defrost temperature parameter.

Locking the Keyboard

- To lock & unlock the keyboard, hold down both up and down keys together

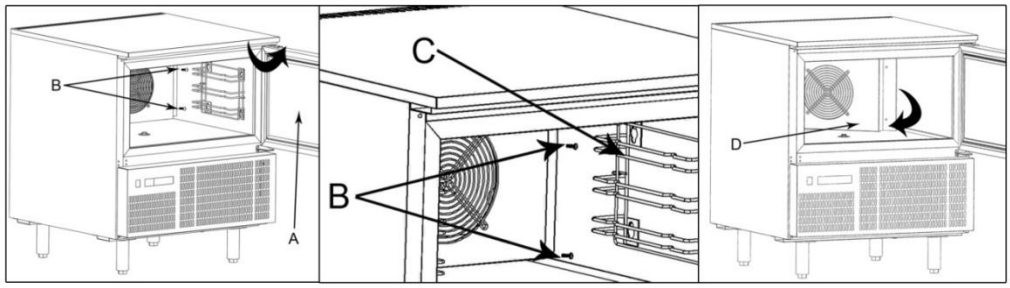


Resetting Date and Time

1. To reset the clock data, press and hold TEMP button for 5 seconds. This will display the date and time parameters.
2. Press the SET key. The value will start to flash.
3. Edit the value using the MENU and TEMP buttons.
4. Press SET to select the new value and move onto the next value.

Cleaning the evaporator

Please ensure that the Blast Chiller is switched off and unplugged prior to cleaning

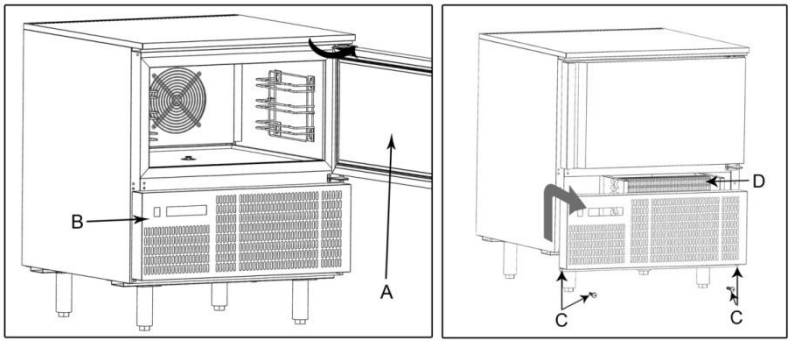


- Clean the evaporator **periodically.**
- As the fins of the evaporator are very sharp. Always wear protective gloves for the next phases
- Only a brush must be used for cleaning: do not use jets of liquid or sharp instruments.
- To access the evaporator proceed as follows:

1. Open the door (A) of the appliance.
2. Loosen the two screws (B) on the right of the deflector.
3. Remove the runner (C).
4. Turn the deflector (D) to the left.

Cleaning the condenser

Please ensure that the Blast Chiller is switched off and unplugged prior to cleaning



- Clean the condenser **periodically**.
- As the fins of the condenser are very sharp, always wear protective gloves for the next phases. Use protective masks and glasses in the presence of dust.
- Whenever the condenser has a deposit of dust in correspondence with the fins, this can be removed using a suction device or with a brush applied, using a vertical movement along the direction of the fins.
- No other instruments must be used, which may deform the fins and therefore the efficiency of the appliance.
- To clean, proceed as follows:

1. Open the door (A) of the appliances.
2. Remove the lower panel (B) from the technical compartment: to do this, remove the screw fasteners (C).
3. It is now possible to clean the finned part of the condenser (D) using suitable tools and protection devices.
4. After cleaning, close the control panel and fix it with the screws removed beforehand.

Troubleshooting

If your POLAR appliance develops a fault, please check the following table before making a call to the helpline or your local POLAR retailer.

Fault	Probable Cause	Required Action
The appliance is not working	The unit is not switched on	Check the unit is plugged in correctly and switched on
	Plug and lead are damaged	Call POLAR agent or qualified Technician
	Fuse in the plug has blown	Replace the fuse
	Power supply	Check power supply
	Internal wiring fault	Call POLAR agent or qualified Technician
The appliance is leaking water	The appliance is not properly leveled	Adjust the screw feet to level the appliance
	The drain is blocked	Clear the drain
	Movement of water to the drain is Obstructed	Clear the floor of the appliance
	The water container is damaged if water is leaking from back of container	Call POLAR agent
The appliance is unusually loud	The appliance has not been installed in a level or stable position	Check installation position and change if necessary
	Loose nut/screw	Check and tighten all nuts and screws
The appliance is not chilling	Wrong program	Change program – see controller manual
	The filter is blocked	Clean filters
Temperature of food is not being detected	The food insert probe is broken	Purchase a new food insert probe from your Distributor. Code: AE222
Food has freezer burns after removing from unit	The cycle is not the correct one to be using for the type of food	Change cycle from hard freeze to soft freeze (see page no. 4)
The appliance is beeping and there is a message appearing on the operating panel	There is a problem with the unit being indicated by the control alarm signal	See table below

Operating Panel Message	Meaning	Required Action
“EE”	Data or memory failure	Call POLAR agent or qualified technician
“rPF”	Thermostat Probe failure	Call POLAR agent or qualified technician
“EPF”	Evaporator Probe failure	Call POLAR agent or qualified technician
“i1P” “i2P” “i3P”	Insert probe 1, 2, 3, failure	Ensure insert probe has not become disconnected from the socket.
“rtC”	Clock data lost	Reset date and time (see page no.5)
“rtF”	Clock failure	Reset date and time (see page no.5)
“HA”	Maximum temperature alarm	Alarm will automatically stop as soon as the thermostat values returns to normal values
“LA”	Minimum temperature alarm	Alarm will automatically stop as soon as the thermostat values returns to normal values
“FF”	Fast freezing interrupted by short power failure	Call POLAR agent or qualified technician
“PFA”	Fast freezing interrupted by long power failure	Freezing cycle will restart from the current phase.
“OCF”	Maximum cycle time has been exceeded	Product will continue to operate. Press any key to deactivate alarm.
“EA”	External alarm	Call POLAR agent or qualified technician
“CA”	Serious external alarm	Call POLAR agent or qualified technician
“dA”	Door open alarm	Ensure door is closed fully

Technical Specifications

Please see website for further details on http://www.polar-refrigerator.com

Model	Voltage	Power	Current	Capacity	Weight (Kg)	Max Ambient Temp (°C)	Chill Rate	Freeze Rate (°C)
DN492-A	230v 50Hz	770W	3.5A	3 x GN1/1	104	43	90 min (12kg)	240 min (8kg)
DN494-A	230v 50Hz	1300W	6.5A	10 x GN1/1	185	43	90 min (40kg)	240 min (28kg)

Electrical Wiring

The plug is to be connected to a suitable mains socket.
POLAR appliances are wired as follows:

- Live wire (coloured brown) to terminal marked L
- Neutral wire (coloured blue) to terminal marked N
- Earth wire (coloured green/yellow) to terminal marked E

All POLAR appliances must be earthed, using a dedicated earthing circuit.
If in doubt consult a qualified electrician.
Electrical isolation points must be kept clear of any obstructions. In the event of any emergency disconnection being required they must be readily accessible.

Compliance



The WEEE logo on this product or its documentation indicates that the product must not be disposed of as household waste. To help prevent possible harm to human health and/or the environment, the product must be disposed of in an approved and environmentally safe recycling process. For further information on how to dispose of this product correctly, contact the product supplier, or the local authority responsible for waste disposal in your area.



POLAR parts have undergone strict product testing in order to comply with regulatory standards and specifications set by international, independent, and federal authorities.

POLAR products have been approved to carry the following symbol:



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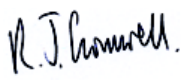
Every effort is made to ensure all details are correct at the time of going to press, however, POLAR reserve the right to change specifications without notice.

DECLARATION OF CONFORMITY

Equipment Type	**Blast Chiller**
Model	**DN492-A, DN493-A, DN494-A**
Legislation	**C-Tick** **AS/NZ 3820 Essential Safety Requirements for Low Voltage Electrical Equipment**
Standards	**AS/NZS CISPR 14.1:2010** **AS/NZS 60335.2.89:2010**
Producer Name	**POLAR**
Producer Address	**15 Badgally Road,** **Campbelltown,** **NSW 2560**

I, the undersigned, hereby declare that the equipment specified above conforms to the above Legislation and Standard(s).

Date	**21/05/13**
Signature	
Full Name	**Richard Cromwell**
Position	**Commercial Director**

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