



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
 - Fire Precautions
 - 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.
- 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.
- Polar recommend that this appliance is PAT tested on an annual basis to ensure the product remains safe.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.



Caution Risk of Fire

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



Warning: Keep all ventilation openings clear of obstruction. Unit should not be boxed in without adequate ventilation.

- **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 the type recommended by the manufacturer.

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 unit has not been stored or moved in an upright position, let it stand upright for approximately 12 hours before operation. If in doubt allow 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 this distance if the obstacle is a heat source. Do not block front ventilation grills.



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

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

Operation

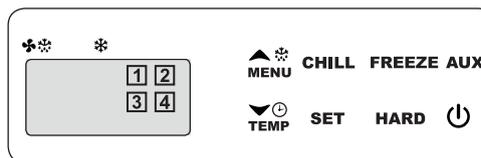
Storing Food

To get the best results from your POLAR appliance, follow these instructions:

- 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.

Control Panel



Turn On

To switch the appliance on, press  button. This will place the unit in standby whilst waiting for the cycle to be selected.

Insert the food probe

- Before selecting which cycle to use, the probe must be inserted into the food. This allows the internal temperature of the food to be measured.
- It is important that the probe is correctly connected to the unit, or an alarm will activate and the appliance 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

1. The number on the control panel corresponds to the cycle that is selected.
2. To toggle the cycle between hard and soft, press the **HARD** key.
3. Once the required cycle's number is shown, select the desired type of operation by using the **FREEZE** or **CHILL** key.
4. Confirm the 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)	<ol style="list-style-type: none"> 1. While in standby, icons 1 and 2 will flash. 2. Press the CHILL key once. Icon 1 will remain on. 3. To start the cycle, press the CHILL key again.
Cycle 2	Soft freezing for delicate products (e.g. patisseries and vegetables)	<ol style="list-style-type: none"> 1. While in standby, icons 1 and 2 will flash. 2. Press the FREEZE key once. Icon 2 will remain on. 3. To start the cycle, press the FREEZE key again.
Cycle 3	Hard chilling for general purpose foods (e.g. meat, pies and lasagne)	<ol style="list-style-type: none"> 1. While in standby, icons 1 and 2 will flash. 2. Press the HARD key. Icons 3 and 4 will turn on, indicating hard chilling and hard freezing can be selected. 3. Press the CHILL key once. Icon 3 will remain on. 4. To start the cycle, press the CHILL key again.
Cycle 4	Hard freezing for general purpose foods (e.g. meat, pies and lasagne)	<ol style="list-style-type: none"> 1. While in standby, icons 1 and 2 will flash. 2. Press the HARD key. Icons 3 and 4 will turn on, indicating hard chilling and hard freezing can be selected. 3. Press the FREEZE key once. Icon 4 will remain on. 4. To start the cycle, press the FREEZE key again.



Note: After cycles 1, 2 and 3 are complete, the unit will enter a holding phase. Cabinet will hold end temperature until the operator ends cycle.

Temporarily stopping the running cycle

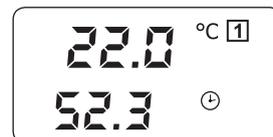
1. If a chill operation is selected, press the **CHILL** key to stop. If a freeze operation is selected, press the **FREEZE** key to stop.
2. The compressor and the fan will stop and the icon for the current cycle starts to flash.
3. To restart the cycle, press the same key used to stop the cycle. The 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 appliance from overheating.
4. If the cycle is not manually restarted, the Chiller will automatically restart after 20 minutes.

How to stop a cycle

- If a chill operation is selected, press the **CHILL** key once.
- If a freeze operation is selected, press the **FREEZE** key once.

Display Temperatures

- The upper display shows the temperature of the inside of the cabinet. The bottom display shows the temperature of the inserted probe (ip1).
- Probes ip2 & ip3 are not included. If displayed, press the  key until ip1 is displayed.
- Once the cycle has finished, the appliance will beep to indicate the food has reached the desired temperature.



Locking the Keyboard

- To lock the keyboard, press and hold both  and  keys.
- To unlock the keyboard, press and hold both  and  keys again.

Resetting Date and Time

To reset the clock data, press and hold the  key for 5 seconds. The date and time parameters will be shown.

1. Press the **SET** key. The value will start to flash.
2. Adjust the value using both  and  keys.
3. Press the **SET** key to confirm the new value and move onto the next value.

Manual Defrost

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

- To manually defrost the appliance: Press and hold the  key for few seconds to begin the process.



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

Cleaning, Care & Maintenance



Switch off and disconnect from the power supply before cleaning.

- Clean the interior of the appliance as often as possible.
- Do not use abrasive cleaning agents. These can leave harmful residues.
- Clean the door seal with water only.
- Always wipe dry after cleaning.
- Do not allow water used in cleaning to run through the drain hole into the evaporation pan.
- Take care when cleaning the rear of the appliance. Sharp edges can cut.
- A POLAR agent or qualified technician must carry out repairs if required.

Stainless Steel Care

To maintain the stainless steel exterior of your Polar item, please consider the following information:

Never:

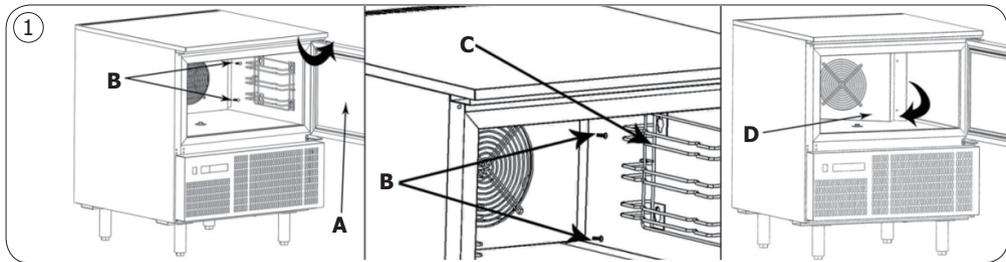
- Use abrasive Scourers or scrubbing pads, etc.
- Use Chlorinated or acidic detergents
- Allow anything e.g. food, dirt, cleaning chemicals to remain on the surface for longer than necessary, clean them off right away.
- Allow the surface to remain wet.

Do:

- Clean often.
- Use soft Cloths or plastic Scourers.
- Rub with the grain of the metal, rather than across it.
- Use detergents and polish designed for cleaning Stainless Steel.
- Ensure that the cleaning products are washed off fully and that the steel is left dry.

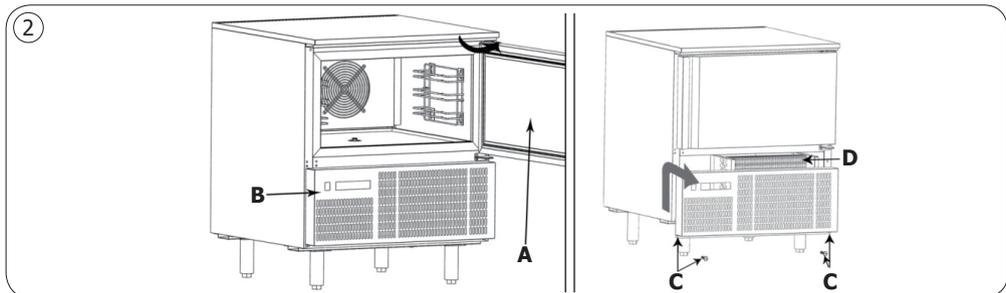
Cleaning the evaporator

- Clean the evaporator periodically.
- As the fins of the evaporator are very sharp. Always wear protective gloves.
- Only a brush can 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

- Clean the condenser periodically.
- As the fins of the condenser are very sharp, always wear protective gloves.
- 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). 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 POLAR dealer.

Fault	Probable Cause	Solution
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 levelled	Adjust the screw feet to level the appliance (if applicable)
	The drain is blocked	Clear the discharge outlet
	Movement of water to the drain is obstructed	Clear the floor of the appliance (if applicable)
	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 probe is broken	Purchase a new food probe from your Distributor. Code: AE222
Food has freezer burns after removing from unit	The selected cycle is not suitable for the food	Change cycle from hard freeze to soft freeze (→ Selecting a cycle)
The appliance is beeping and there is a message appearing on the control panel	There is a problem with the unit being indicated by the control alarm signal	See table below

Control 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 (→ Resetting date and time)
"rtF"	Clock failure	Reset date and time (→ Resetting date and time)
"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

Model	Voltage	Power	Current	Capacity	Weight (kg)	Max. Ambient Temp.	Chill Rate	Freeze Rate	Refrigerant
DN492-A	230V~ 50Hz	770W	3.5A	3 x GN1/1	104	43°C	90 min (12kg)	240 min (8kg)	R290 130g
DN494-A	230V~ 50Hz	1300W	6.5A	10 x GN1/1	185	43°C	90 min (40kg)	240 min (28kg)	R290 150g

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

This appliances must be earthed.



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 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:



All rights reserved. No part of these instructions may be produced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of POLAR.

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 12kg Shock Freezer 8kg Blast Chiller 40kg Shock Freezer 28kg
Model	DN492-A DN494-A
Legislation	Electrical Safety Electromagnetic Compatibility
Standards	EN55014-1:2006 +A1:2009 +A2:2011 EN55014-2:2015 EN61000-3-2:2014 EN61000-3-3:2013 IEC 60335-1:2010 (Fifth Edition) IEC 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	28/02/2018
Signature	
Full Name	Ashley Hooper
Position	Technical & Quality Manager



<http://www.polar-refrigerator.com/> 

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