

## Operating and Installation Instructions

For Shoreline 12/24V DC Compressor Appliances fitted with SECOP BD Series Compressor

### About your product

- ✱ This Shoreline DC appliance is designed specifically for mobile and off-grid use, ensuring reliable and efficient cooling in demanding environments. Always follow installation and usage guidelines to avoid injury, damage, or operational issues.

### Manual Handling and Transportation

- ✱ Due to the appliance's size and weight, use at least two people to lift and move it.
- ✱ Avoid dragging or pulling the appliance across surfaces, as this can damage both the appliance and the flooring. Always lift the appliance when repositioning it.
- ✱ Keep the appliance upright at all times to prevent damage to internal components, particularly the refrigerant system.
- ✱ Where possible, position the appliance in the original packaging. Alternatively, use padding or corner protectors when moving the appliance through doorways or tight spaces to avoid damaging walls or the appliance itself.

### Preventing Damage

- ✱ Do not stand, sit, or apply excessive force to the appliance doors, shelves, or runners.
- ✱ Ensure the appliance is installed on a stable surface to prevent tipping or movement.
- ✱ Any external damages must be reported to our customer support team via our Help Desk within 48 hours of receipt. Any internal damage to the goods must be reported within 72 hours, otherwise Shoreline (UK) Ltd will not be held responsible.

### General Safety

- ✱ Non-Household Use Only: This appliance is designed for use in boats, vehicles, and off-grid environments. It is not suitable for domestic use.
- ✱ Shoreline (UK) Ltd is not liable for any damages resulting from failure to follow the operating and installation instructions.



### Risk of Fire or Explosion

- ✱ Do not place electrical devices such as heaters or ice makers inside the appliance.
- ✱ Avoid storing items containing flammable propellants (e.g., spray cans) or explosive materials in your Shoreline refrigerator.
- ✱ Keep high-alcohol content liquids tightly sealed and stored upright to prevent leaks or spillage.
- ✱ The refrigerant used in this appliance (R600a) is environmentally friendly but flammable.

Avoid damaging or tampering with refrigerant pipes.

- ✱ If damaged:
  - ✱ Keep all flames and ignition sources away from the appliance.
  - ✱ Ventilate the area immediately.
  - ✱ Disconnect the power supply and contact Shoreline Customer Service on 01903 733877
- ✱ Keep plastic components and seals free of oil and grease, as these can degrade materials and increase fire risks.

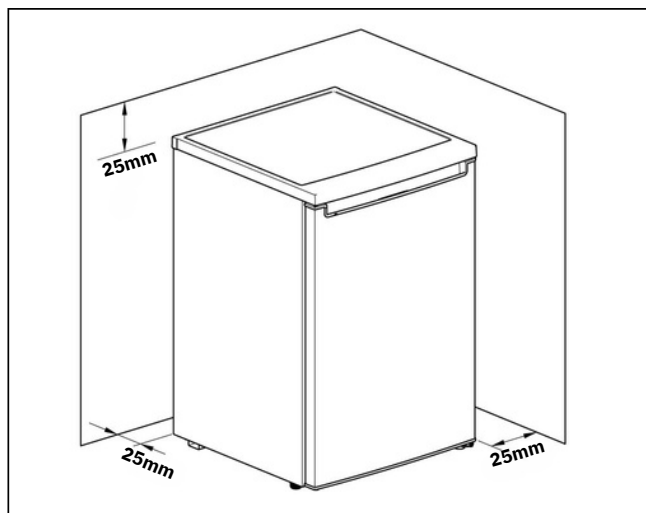


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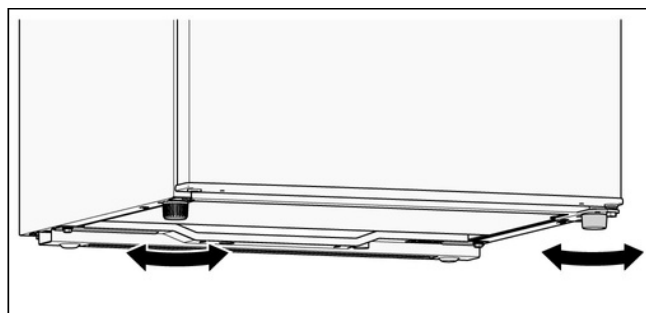
## Positioning your appliance

### The Importance of Positioning

- ✱ Ensure at least 25mm of clearance at the rear, sides and top of your Shoreline appliance.



- ✱ Do not place your appliance near ovens, heaters, or direct sunlight
- ✱ Install your appliance on a level surface, adjust the front levelling feet to ensure stability and prevent wobbling if applicable



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## Directions for disposal

### Disposing of Packaging

- ✱ The packaging provided with your Shoreline appliance is designed to protect it during transportation and is made from environmentally friendly materials. Please dispose of the packaging responsibly

### Disposing of Your Old Appliance

- ✱ Old appliances contain valuable raw materials that can be recovered through proper recycling
- ✱ For further details, contact your local authority or visit an authorised disposal site to ensure your appliance is recycled according to legal and environmental standards.

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## Environmental Factors

### Operating Challenges Related to High and Low Ambient Temperatures

- ✱ Your Shoreline appliance is an N-Class product, specifically designed to perform efficiently in ambient temperatures ranging from +16°C to +32°C
- ✱ If the ambient temperature drops below the internal fridge temperature, the thermostat may not activate the motor, causing gradual defrosting of the freezer compartment (if fitted).
- ✱ This typically occurs in colder months when the appliance is connected but inactive. To prevent this, avoid installing the fridge in areas where temperatures fall below the recommended range, or use a background heat source to raise the ambient temperature.
- ✱ If the fridge remains connected, empty the freezer compartment when not in use. Alternatively, raising the thermostat setting temporarily can delay defrosting, though this may increase motor operation to maintain frozen items. Once temperatures normalise, reset the thermostat to its original position to avoid overcooling.
- ✱ In hot temperatures, the cooling system has to work harder to maintain temperature. **Do not increase the thermostat setting to try and counteract the heat**, as this will make the compressor work harder, leading to increased energy consumption and potential wear on the appliance.
- ✱ Instead, ensure good ventilation around the appliance, avoid overloading and minimise door openings. For users in environments where temperatures regularly exceed 30°C, additional cooling fans are available on our website to enhance performance and reduce strain on the appliance.

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## Safe and Effective Installation

- ✱ We strongly recommend that your appliance is installed by a competent electrician or engineer to ensure safe and effective operation.
- ✱ Shoreline is not responsible for any damage or faults resulting from improper installation, and such cases may void the warranty.



## Connection

### Connecting your Shoreline

- ✳ Your appliance can be powered from either a 12 or 24 Volt DC supply. Once connected, the compressor electronic unit will automatically calibrate to the applied voltage.
- ✳ Your DC power connection must be made to the terminals marked + and - at the top of your electronic unit. These are already attached with red and black tails at the point of manufacture.
- ✳ If your DC wires are reversed in their polarity, then the appliance will not operate.

### Connection Block

- ✳ You will need to connect your negative and positive cable from your batteries with a connection block. This should be connected to the tails already attached to the + and - terminals.

### In-line Fuse

- ✳ A fuse must be fitted to the positive lead from your battery source to protect the appliance. This must be rated 15 Amp max for 12V installations or 7.5 Amp max for 24V systems.

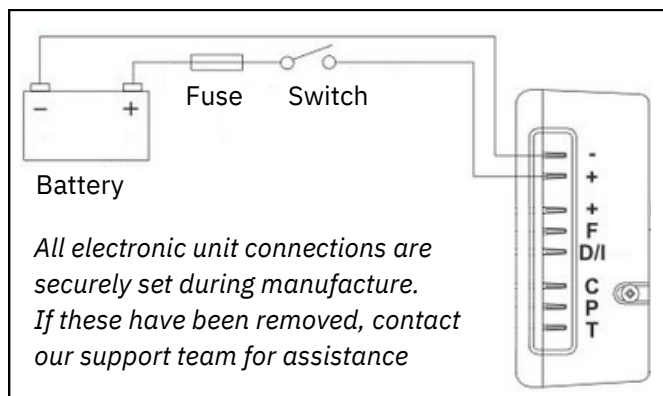
### Switch

- ✳ A switch should be fitted close to your appliance on the positive cable. This should be rated for 20A on a 12V system or 10A on a 24V installation.

### Cable Size Requirements

- ✳ The required cable size for connecting your battery to your Shoreline appliance depends on the distance and system voltage.
- ✳ On a 12V system, you will need to allow 1mm<sup>2</sup> of cable thickness per metre of distance (eg: if your appliance is 6m from your battery, use a 6mm<sup>2</sup> cable)
- ✳ On a 24V system, the required cable thickness can be halved, as the higher voltage reduces current (eg: for a 6m distance, only 3mm<sup>2</sup> is required)

CABLE SIZE		CABLE LENGTH (metres) (distance from battery to fridge)	
AWG	(MM <sup>2</sup> )	12 Volt	24 Volt
12	2.5	2.5	5
12	4	4	8
10	6	6	12
8	10	10	20



### Battery and Voltage Safeguards

- ✳ To protect your battery and ensure consistent performance, Shoreline appliances are equipped with advanced safeguards

### Automatic Low-Voltage Cut-Out

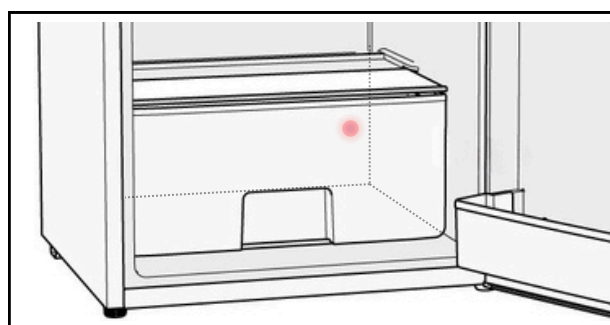
- ✳ To prevent battery over-discharge, the appliance will automatically stop running if the voltage drops below a safe threshold.
- ✳ Your appliance will resume operation once the voltage returns to acceptable levels.

*12V systems will cut out at 10V and resume at 11.2V*

*24V systems will cut out at 22V and resume at 24.4V*

### Low Voltage Warning System

- ✳ Your appliance is fitted with a red diagnostic LED. If the battery voltage is too low to operate the appliance, this light will show a single flash for 1/4 second and repeat every four seconds.
- ✳ This is the most common fault amongst customers, which is a reliable indicator for power, wiring or connector issues. If your appliance appears to be flashing more than once in a sequence, visit the Support tab on our website for further guidance
- ✳ Your diagnostic LED can usually be found behind the salad crisper in fridge models, behind the drawers in a freezer or on the fascia/thermostat housing.





# Getting Started with Your Appliance

## Allow the Appliance to Settle

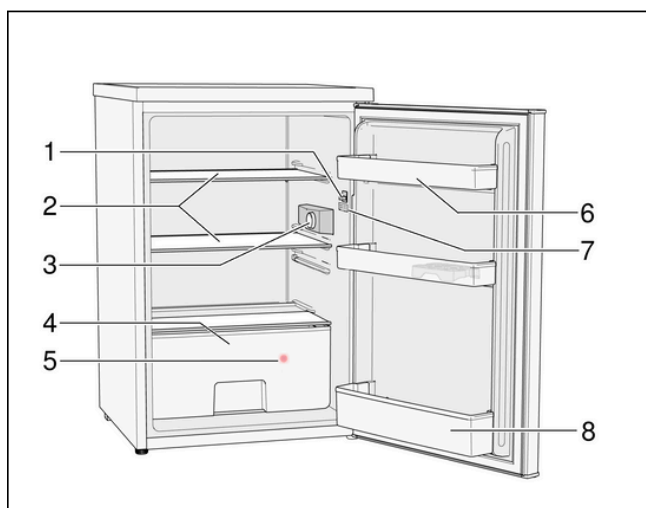
- Once your Shoreline appliance is installed and powered on, it's important to let it settle and stabilise before use. We generally recommend allowing the unit to run for between 4-6 hours before adding any food.
- Where possible, place pre-cooled items into the fridge or freezer to reduce the initial strain on the appliance to bring these down to temperature.

## Initial Checks

- You have within 72 hours of receiving your new Shoreline to report any missing or faulty components.
- If your appliance is fitted with an internal light, ensure this is operational. Check your components for damage and raise these immediately with our support team via the Support tab if you have any issues

## Getting to Know your Shoreline

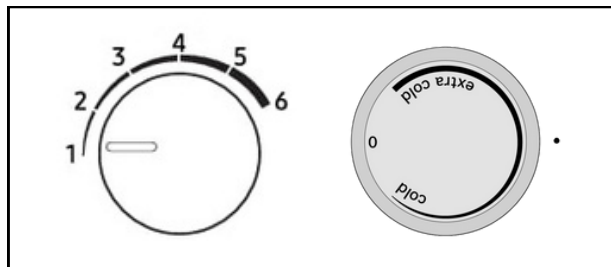
- The features of our models may vary. The illustrations below may differ from your particular model, however serve as a good reference if you have any issues or need to contact our team in the future for spares



- 1 - Light switch
- 2 - Internal Shelves
- 3 - Thermostat Housing (and internal light if fitted)
- 4 - Salad Crisper
- 5 - Diagnostic LED
- 6 - Top Door Pocket
- 7 - Data Plate
- 8 - Bottom Door Pocket

## Thermostat Positioning

- Your Shoreline appliance's thermostat may be numbered or worded, depending on the model. For optimal performance, we recommend setting this between 1 and 3 if numbered, or just above the lowest setting if it is worded



- The higher the number, the colder the internal temperature and the more energy the appliance will use. Conversely, the lower the number, the warmer the temperature and the less energy it consumes.
- Adjust the thermostat based on your cooling needs while keeping energy efficiency in mind

## Understanding the Data Plate

- The data plate is typically located near the internal light switch of your Shoreline appliance. It provides important information, including the model number, serial number, and refrigerant charge.
- This information serves as a key reference for identifying your appliance when contacting our support team or registering your warranty.



## Register your Warranty

- If you are fully satisfied that your appliance is operational and everything is in order, register your warranty by visiting the below:

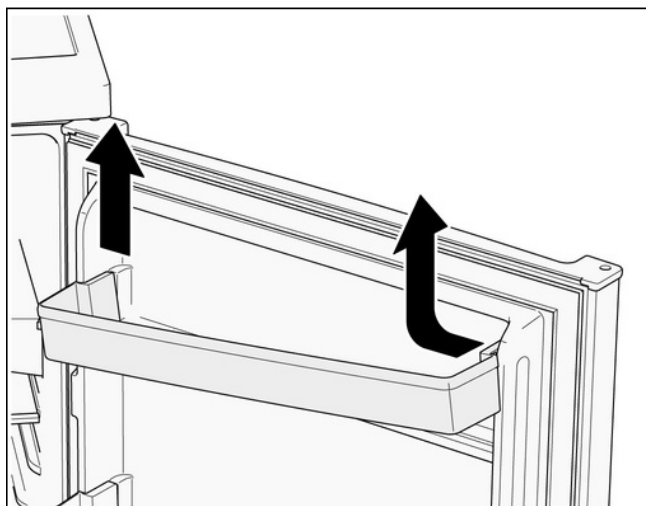
[www.shoreline-marine.co.uk/warranty-registration/](http://www.shoreline-marine.co.uk/warranty-registration/)



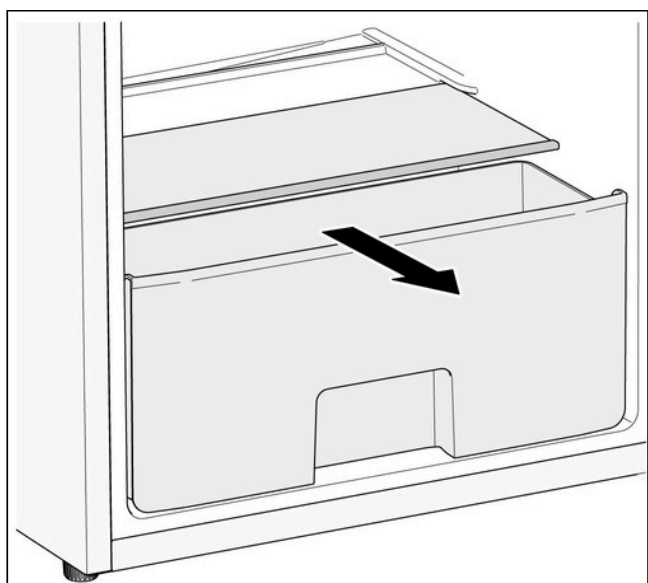
## General Maintenance

### Cleaning the Interior

- \* Regularly clean the inside of your appliance using a soft cloth and mild soap or detergent. Avoid abrasive cleaners or tools that may scratch the surfaces.
- \* Door pockets and salad crispers can be removed in refrigerators. Drawers can be removed in freezers.



- \* These removable components generally collect the most debris and can be gently washed in the sink and dried prior to replacing them in your appliance.
- \* Avoid washing shelves or containers in the dishwasher, as these may warp or damage them.



### Door Seal

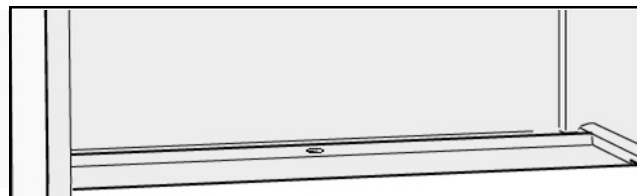
- \* Inspect the door seals regularly for dirt or damage. Clean with a damp cloth to ensure a proper seal and prevent energy loss.

### Defrosting

- \* To defrost your appliance, isolate the power and allow all defrosted water to collect in the plastic drip tray positioned above the compressor.
- \* **Never use a metal scraper or utensil to remove excess frost. This can cause irreversible damage to your appliances internal pipework .**
- \* Plastic scrapers may be used to remove excess frost, but please exercise caution as to not damage any components.
- \* When this is completed, remove the water by using a dry cloth or tea towel, or remove the drip tray, empty and wipe dry.
- \* Some of our models will defrost automatically, you will notice frost or water droplets on the inside rear wall, this is normal and the moisture will collect in the drip tray.

### Drainage Hole

- \* The drainage hole at the back of your appliance ensures proper condensation management. To prevent blockages, regularly inspect the drainage hole for debris.



- \* Use a pipe cleaner or similar tool to gently clear any obstructions. If the drainage hole becomes blocked, it can lead to water pooling at the bottom of the unit.

### Odour Prevention

- \* Store food in airtight containers to minimise odours. Clean up spills immediately and wipe down the interior with a mild detergent.
- \* Keeping the exterior clean not only improves appearance but also prevents dust and dirt build up. Use a soft cloth with a non-abrasive cleaner to wipe the front and sides of the appliance.
- \* Dust and debris can accumulate at the back of your appliance, cleaning these areas ensures proper airflow, efficiency, and prevents overheating.
- \* *If there is a bad smell coming from your Shoreline, the best place to check first is the drip tray at the rear*



# Troubleshooting and Tips

## Online Support

- For the fastest and most efficient assistance, please visit the Support tab on our website. Our online fault-finding tool is designed to quickly diagnose common issues and provide immediate guidance, saving you time and helping to resolve problems swiftly.



- If you are unable to resolve your issue using the online tool, a Helpdesk ticket can be raised, which will be reviewed by one of our experienced technical team. Please include as much information as possible when raising a ticket, including model and serial number from the data plate inside your appliance.
- If accessing our online support is not an option for you, or if you have already opened a support ticket, our team can also be reached on 01903 733877.

*Please note, however, that you will still need to wait for an engineer to become available. Submitting a Helpdesk ticket online remains the fastest and most efficient way to receive assistance.*

- This resource can be accessed by scanning the QR code inside your appliance or by visiting the following:

[www.shoreline-marine.co.uk/support/](http://www.shoreline-marine.co.uk/support/)

## Appliance Not Powering On

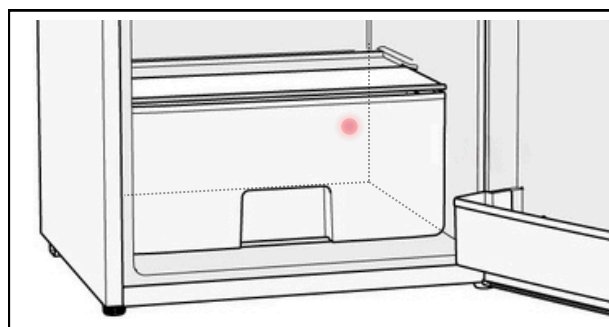
- Ensure the appliance is connected to the correct DC power source, and check for any blown fuses or loose connections in the wiring.
- Verify the battery voltage using a multimeter to ensure it is within the recommended range.
- If the internal light is on, this indicates the appliance is receiving power from the battery source. If the light is on but the fridge is not running, there may be a power issue. Refer to the diagnostic LED.

## Diagnostic LED

- All of our appliances are fitted with a red flashing LED to help resolve common electrical or operational faults, and can usually be found in one of the following locations:

Behind the salad bin on the right-hand side of fridges  
 Behind freezer drawers  
 On the bottom front fascia of integrated units  
 Rear thermostat housing

- If the electronic unit records an operational error, the LED diode will flash a number of times. The number of flashes depends on what kind of operational error was recorded.
- Each flash will last ¼ second. After the recorded number of flashes, there will be a short delay with no flashes, so that the sequence for each error recording is repeated every 4 seconds



- Single Flash: Indicates insufficient start current or low voltage. Check your battery power and connections.
- Two Flashes: Fan error. This could mean an issue with the connected fan or an overload on the fan terminal.
- Three Flashes: Motor protection error. This often points to a problem with the compressor or the electronic controller.
- Four Flashes: Minimum motor speed error. This rare alarm means the compressor has started but cannot maintain its minimum speed.
- Five Flashes: Thermal protection error. This happens if the heat sink exceeds safe operating temperatures.
- If the diagnostic LED flashes in any of these patterns, address the issue by visiting our website for assistance, or contact our support team for further information.
- The LED is one of the most reliable indicators of what might be wrong with your appliance.



## Overcooling

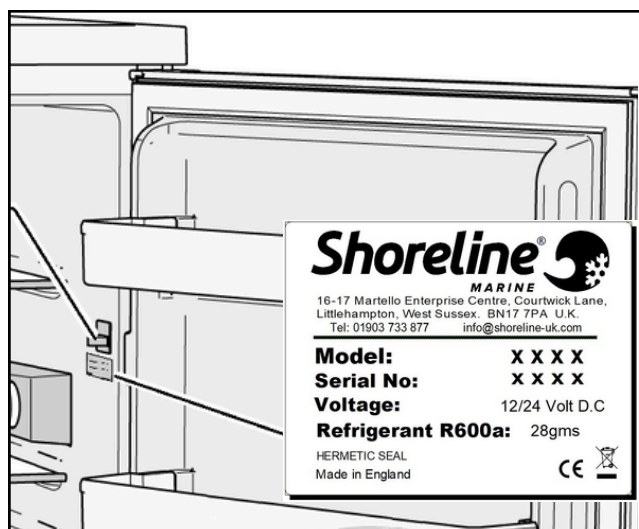
- \* If your Shoreline appliance is overcooling, it may result in frozen items in the fridge compartment or significant ice build up on the rear wall.
- \* Firstly, ensure the thermostat is not set too high. For most applications, a setting between 1 and 3, or just above the lowest setting, is sufficient.
- \* If the motor is running continuously or too often on a low setting, and you are experiencing overcooling, you may have an issue with your thermostat. You can identify if the motor is running by listening for a humming at the rear of the unit.
- \* Replacement thermostats can be found under the Extras tab on our website.
- \* If you are experiencing ice build up isolated to one specific area of the rear wall, this may be attributed to a blockage in the system. Please contact our Helpdesk for assistance with this issue.

## Undercooling

- \* If your Shoreline appliance is not cooling sufficiently, this could be attributed to a few different causes.
- \* Start by ensuring that the thermostat is set into an 'on' position and your Shoreline is receiving power.
- \* A lack of cooling can also occur if your appliance is overloaded with goods or not operating within the recommended ambient temperature range (+16°C to +32°C for N-Class).
- \* If you are confident that your appliance is receiving power, the Diagnostic LED is not flashing, but your appliance is not cooling, the next step will be to check if the motor is running. You can identify this by listening for a humming at the rear of the unit.
- \* If your motor is running continuously, but you are not receiving any cooling, there may be a leak on the system, or a lack of refrigerant. Please visit our Support tab for further assistance with this issue.
- \* If however your motor is not running at all, despite good power supply and no red flash fault code displayed, there may be an issue with your thermostat. This can be tested by bypassing the thermostat on the Electronic Unit. Instructions on how to do this can be found on our website.

## Spares

- \* When ordering spare parts, it's essential to first check the data plate on your appliance to identify the model and serial number. This information ensures we can supply the correct components for your specific appliance.
- \* Some spare parts are listed on our website, but due to the wide range of models and components we've produced, many are not displayed. We maintain an extensive spares archive for past and current models.



- \* To request a part that is not listed on our website, open a Helpdesk ticket and include your model and serial number, along with a description of the required part. For reference, part terminology can be found on page 4 of this manual.

## FGAS Compliance and Refrigerant Handling

- \* If your appliance requires servicing or repairs involving the refrigerant system, ensure the work is carried out by an FGAS-registered engineer. These professionals are certified to handle refrigerants safely and in compliance with environmental regulations.
- \* Shoreline appliances are designed to meet all current refrigerant safety and environmental standards, including the use of R600a, an environmentally friendly refrigerant with a low global warming potential. (*Older models may use legacy refrigerants that differ from current standards*)
- \* **Do not attempt to repair or modify the refrigerant system yourself. Always consult a qualified professional or contact our support team for advice.**

# Thank you for choosing Shoreline DC

## Coast to Coast Reliability

At Shoreline, we've been the industry leaders in DC refrigeration solutions since 1996. Designed for marine, off-grid and leisure environments, our products are built for exceptional performance and reliability, ensuring your essentials stay cool wherever your journey takes you



Your Shoreline appliance is equipped with a SECOP BD Series Compressor, the industry leader in 12V/24V DC compressor technology.

Renowned for efficiency, durability, and low energy consumption, SECOP compressors ensure reliable performance in demanding off-grid environments.

Designed to operate seamlessly in mobile settings, such as boats and vehicles, the SECOP system provides consistent cooling while optimising energy usage.

By utilising SECOP technology, your Shoreline appliance delivers superior cooling performance you can depend on.

This appliance complies with European Directive 2012/19/EU concerning waste electrical and electronic equipment (WEEE). The directive establishes the framework for the return and recycling of used appliances across the EU.

### Shoreline (UK) Ltd

Unit 16-17  
Martello Enterprise Centre  
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Littlehampton  
BN17 7PA

[www.shoreline-marine.co.uk](http://www.shoreline-marine.co.uk)

## Register your Warranty

Enjoy the full benefit of your warranty by visiting our website to register your appliance. You will need the model and serial number to complete the process (within 28 days of purchase).

Please note, the warranty is only applicable in the United Kingdom and Republic of Ireland, and full terms and conditions are available online.

[www.shoreline-marine.co.uk/warranty-registration](http://www.shoreline-marine.co.uk/warranty-registration)



## Looking for Help?

For further assistance, please contact our technical team via the Support tab on our website. Our online fault-finding and helpdesk tools provide the fastest way to diagnose issues and receive guidance.

We strongly recommend that your appliance is installed by a competent electrician or engineer to ensure safe and effective operation.

This appliance is not designed for household use and is intended exclusively for installation in boats, vehicles, or other off-grid environments. Using the appliance outside its intended purpose may affect its performance and void the warranty.

*Always refer to the most up-to-date instructions and information available on our website.*

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