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CCEI DHG2

CCEI DHG2 Anti-Frost Device for Swimming Pools User Manual

Model: DHG2 | Brand: CCEI

1. INTRODUCTION

The CCEI DHG2 Anti-Frost Device is designed to protect your swimming pool's piping system from freezing during cold temperatures, ensuring the longevity of your installation. This device automatically circulates water when temperatures drop, preventing ice formation and potential damage to your pool infrastructure.

Key Features

- Automated winterization for peace of mind.
- Precise temperature measurement with a CTN probe.
- Easy integration with existing pool electrical systems.
- Digital temperature display for clear monitoring.
- Activates filtration when the temperature falls below a set threshold.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before installing or operating the CCEI DHG2 device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Always disconnect the main power supply to the pool system before performing any installation, maintenance, or troubleshooting.
- Do not operate the device if it appears damaged or is malfunctioning. Contact qualified service personnel.
- Keep children and unauthorized persons away from the device during operation.

- Ensure the device is protected from direct weather exposure unless specifically rated for outdoor use.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking:

- CCEI DHG2 Anti-Frost Device Control Box
- CTN Temperature Probe
- User Manual (this document)

4. SETUP AND INSTALLATION

The CCEI DHG2 device is designed for straightforward integration into your pool's electrical system. Proper installation is crucial for optimal performance and safety.

4.1 Mounting the Device

Select a suitable location for mounting the DHG2 control box. This location should be protected from direct weather exposure (rain, direct sunlight) and easily accessible for operation and maintenance. Use appropriate fasteners to secure the unit to a stable surface.



Image: Front view of the CCEI DHG2 Anti-Frost Device, showing the digital temperature display and control buttons.

4.2 Electrical Connection

Connect the DHG2 anti-frost device to your main pool electrical panel. The device typically requires a dedicated power supply. Refer to the detailed wiring diagram provided inside the device cover for specific connection points and ensure all connections are secure and properly insulated. It is recommended to use appropriate conduit for wiring.

The CTN temperature probe must be installed in a location that accurately measures the pool water temperature, typically within the filtration circuit or a dedicated probe well. Ensure the probe is fully immersed in water for accurate readings.



Image: CCEI DHG2 Anti-Frost Device integrated into a swimming pool's filtration system, showing pipe connections.

5. OPERATION

5.1 Initial Power-Up

Once installed and wired, switch on the main power supply to the DHG2 device. The digital display will illuminate, showing the current water temperature measured by the CTN probe.

5.2 Setting the Anti-Frost Threshold

The DHG2 allows you to set a specific temperature threshold. When the water temperature falls below this set point, the device will automatically activate the pool's filtration pump to circulate water and prevent freezing.

1. Press the 'SET' button on the control panel. The display will show the currently programmed anti-frost activation temperature.
2. Use the 'Up' and 'Down' arrow buttons to adjust the desired temperature threshold. A common setting is between 0°C and 3°C (32°F and 37.4°F).
3. Press 'SET' again to confirm and save the new setting. The display will then revert to showing the current water temperature.

5.3 Forced Circulation Mode

The DHG2 may include a forced circulation mode, which can be manually activated. This mode ensures continuous water movement and increases pressure within the pipes, further lowering the freezing point of the water. This can be particularly useful during extreme cold snaps or for specific maintenance procedures.

Refer to the device's specific button layout for activating this mode, which is typically a dedicated button or a combination of existing buttons (e.g., holding an arrow button for a few seconds).

6. MAINTENANCE

Regular maintenance ensures the optimal performance and longevity of your CCEI DHG2 Anti-Frost Device.

- **Visual Inspection:** Periodically inspect the device, wiring, and connections for any signs of wear,

corrosion, or damage.

- **Cleaning:** Keep the digital display and control buttons clean and free from dust or debris. Use a soft, dry cloth for cleaning.
- **Probe Check:** Ensure the CTN temperature probe is clean and properly positioned in the water for accurate readings. Remove any buildup that might affect its sensitivity.
- **Winter Storage (if applicable):** If the device is removed for off-season storage, ensure it is stored in a dry, protected environment.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your DHG2 device.

Problem	Possible Cause	Solution
Device not powering on	No power supply	Check the circuit breaker and all electrical connections. Ensure the main power to the pool system is on.
Incorrect temperature reading	Faulty or dirty probe, or probe not immersed	Clean or replace the CTN temperature probe. Ensure it is correctly installed and fully immersed in water.
Pool pump not activating when cold	Temperature above threshold, wiring issue, or pump malfunction	Verify the set temperature threshold. Check wiring connections to the pump. Test the pump independently to ensure it is functional.
Digital display shows an error code	Internal fault or sensor issue	Consult the specific error code in the full technical manual (if available) or contact CCEI customer support for assistance.

If problems persist after attempting these solutions, please contact CCEI customer support or a qualified service technician.

8. TECHNICAL SPECIFICATIONS

Below are the general technical specifications for the CCEI DHG2 Anti-Frost Device:

Feature	Detail
Model	DHG2
Brand	CCEI
Dimensions (Packaging)	18.4 x 18.2 x 17.2 cm
Weight (Packaging)	660 grams
Temperature Sensor Type	CTN (Negative Temperature Coefficient)

Feature	Detail
Display Type	Digital
Primary Function	Automatic Anti-Frost Protection for Pool Systems

Note: Specifications are subject to change without prior notice.

9. WARRANTY AND CUSTOMER SUPPORT

The CCEI DHG2 Anti-Frost Device comes with a standard manufacturer's warranty. Please refer to your purchase documentation or the official CCEI website for specific warranty terms and conditions, including duration and coverage.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact CCEI customer support through their official website or your local authorized distributor. Ensure you have your product model number (DHG2) and proof of purchase available when contacting support.

Related Documents - DHG2

	<p>CCEI DHG-2 Frost Protection Device User Manual</p> <p>User manual for the CCEI DHG-2 frost protection device, detailing technical specifications, installation, connection, settings, and declaration of conformity for pool water protection.</p>
	<p>CCEI CLEA 1 Module: Smart Pool Filtration Control via Bluetooth</p> <p>Technical guide for the CCEI CLEA 1 module, detailing its features, installation, Bluetooth connectivity, and application control for swimming pool filtration management.</p>
	<p>tild VP Wifi / Bluetooth Connected Electric Control Box Operating Instructions</p> <p>Comprehensive operating instructions for the CCEI tild VP electric control box, covering installation, connection, features, and troubleshooting for pool automation systems. Includes technical specifications and compatibility with the Vigipool environment.</p>



[CCEI ZELIA ZLT Salt Electrolyser: Technical Instructions and Operation Manual](#)

This document provides comprehensive technical instructions and an operation manual for the CCEI ZELIA ZLT salt electrolysis system. It covers product features, installation, commissioning, operation modes, parameter settings, maintenance, error troubleshooting, and declarations of conformity for pool owners and technicians.



[Brio White and Color Underwater LED Light Technical Instructions](#)

Detailed technical instructions for the installation, operation, and maintenance of the Brio White and Color Underwater LED Light. Includes product features, safety warnings, and winterization guidelines.



[CCEI Brio RC+ Technical Instructions: Remote Control for LED Lighting](#)

This document provides technical instructions for the CCEI Brio RC+ remote control system, designed for managing Brio LED lighting in swimming pools. It covers installation, operation, technical specifications, and safety guidelines.