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EcoPlus HGC728709

EcoPlus Commercial Grade Water Chiller 1.5 HP Instruction Manual

Model: HGC728709

Introduction

The EcoPlus Commercial Grade Chiller 1.5 HP is designed for cooling water in various applications, including hydroponic systems, saltwater and freshwater aquariums, cold plunges, and other reservoirs. It features a titanium heat exchanger for optimal performance and corrosion resistance, housed in heavy-duty galvanized steel with a durable powder-coated finish. The unit includes a digital LCD display and a remote controller for convenient monitoring and adjustments. It also incorporates auto restart and temperature memory functions to minimize disruptions during power interruptions.



Image: EcoPlus Commercial Grade Water Chiller 1.5 HP, showing the main unit with its fan and control panel.

Setup

1. **Placement:** Position the chiller on a stable, level surface. Ensure adequate ventilation around the unit for proper heat dissipation.
2. **Connections:** The chiller includes two fittings for connecting to 1-inch hard PVC or flexible tubing. Connect the water inlet and outlet to your system (e.g., reservoir, aquarium, hydroponic system). Ensure all connections are secure and leak-free.
3. **Pump Installation:** A water pump is required for circulation. The recommended pump is an EcoPlus 1267 GPH model. Connect the pump to your system to ensure water flows through the chiller.
4. **Power Connection:** Connect the chiller to a 120V 60Hz power source. Ensure the electrical outlet is properly grounded and can handle the unit's wattage (300 watts).
5. **Remote Controller:** The remote controller comes with a 30-foot cord, allowing for flexible placement and monitoring. Connect the remote controller to the designated port on the chiller.



Image: The remote controller for the EcoPlus Chiller, featuring a digital display and control buttons.

Operating Instructions

1. **Power On:** Once all connections are secure and the system is filled with water, plug in the chiller. The digital LCD display on the unit or remote controller will illuminate.
2. **Set Temperature:** Use the up and down arrows on the digital display or remote controller to set your desired water temperature. The chiller will automatically begin cooling the water to the set point.
3. **Monitoring:** The remote controller allows you to monitor the current water temperature and adjust settings from a distance.
4. **Auto Restart and Memory:** In the event of a power failure, the chiller is equipped with an auto restart function and temperature memory, ensuring it resumes operation at the last set temperature once power is restored.
5. **Temperature Range:** The chiller is designed to maintain water temperatures efficiently. The upper temperature rating for the unit is 77°F.

Maintenance

- **Regular Cleaning:** Periodically inspect and clean the air intake vents and fan blades to ensure proper airflow and prevent dust buildup, which can affect efficiency.
- **Water Quality:** Maintain good water quality in your system to prevent buildup within the chiller's heat exchanger.
- **Connection Check:** Regularly check all tubing connections for any signs of leaks or wear.

Troubleshooting

- **Unit Not Powering On:**
  - Ensure the power cord is securely plugged into a functional 120V outlet.
  - Check the circuit breaker for your power source.
- **Insufficient Cooling:**
  - Verify that the water pump is operating correctly and providing adequate flow through the chiller.
  - Check for any obstructions in the water lines or within the chiller's heat exchanger.
  - Ensure the air intake vents are clear of debris and the fan is operating.
  - Confirm the set temperature is lower than the current water temperature.
- **Unusual Noise:**
  - Inspect the fan for any obstructions.
  - Ensure the unit is placed on a stable surface to minimize vibrations.

For issues not resolved by these steps, please contact customer support.

Specifications

Feature	Detail
Model Number	HGC728709
Horsepower	1.5 HP
Voltage	120V 60Hz
Wattage	300 watts
Refrigerant	R140A (Environmentally friendly)
Heat Exchanger Material	Titanium
Housing Material	Galvanized Steel with Powder-Coated Finish
Product Dimensions (W x L x H)	15" W x 41" L x 24" H
Item Weight	94 pounds
Recommended Pump	EcoPlus 1267 GPH
Recommended Tank Size (Hydroponic)	Up to 300 gallons
Recommended Tank Size (Aquarium)	300-500 gallons
Inlet/Outlet Fitting Size	1 inch
Remote Controller Cord Length	30 feet
Upper Temperature Rating	77 °F



Image: A table detailing various specifications for the EcoPlus Water Chiller.

Warranty

This EcoPlus Commercial Grade Water Chiller is covered by a manufacturer's warranty. For specific details regarding warranty duration, coverage, and claims process, please refer to the documentation included with your product or contact the manufacturer directly.

Support

For technical assistance, parts, or service inquiries, please contact the manufacturer:
Manufacturer: Hawthorne Hydroponics, LLC
Please have your model number (HGC728709) and purchase information ready when contacting support.

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