

## Bio Green PHX/ES

# Phoenix Air Circulation Tube User Manual

Model: PHX/ES | Brand: Bio Green

## 1. INTRODUCTION

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The Bio Green Phoenix Air Circulation Tube is an energy-efficient accessory designed to work with the Greenhouse Heater & Fan PHOENIX to minimize energy consumption and maximize effectiveness. It is intended for use specifically in fan mode to ensure even heat and air circulation throughout the greenhouse. This flexible, dependable, and easy-to-use tube can be placed on the floor or fixed to the ceiling, making it a fantastic addition to your greenhouse heating system.



Image: The Phoenix Air Circulation Tube connected to a greenhouse heater, demonstrating its primary function in a greenhouse environment.

## 2. SAFETY INFORMATION

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Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in injury or damage to the product.

- Ensure the greenhouse heater/fan is turned off and unplugged before installing or performing maintenance on the air circulation tube.
- Always use the provided mounting materials to secure the tube properly. Improper installation can lead to the tube falling and causing damage.
- Do not obstruct the air inlets or outlets of the tube or the fan. Maintain clear pathways for air circulation.
- Keep the tube away from sharp objects or abrasive surfaces that could puncture or tear the material.
- This product is designed for use in greenhouses. Do not use it for purposes other than its intended use.
- Regularly inspect the tube for any signs of wear, tear, or damage. Replace if necessary.

## 3. PACKAGE CONTENTS

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Verify that all components are present in your package:

- 1 x Phoenix Air Circulation Tube (118 inches in length, 8.7 inches in diameter)
- 1 x Hose Clamp
- 5 x Fixing Chains
- 5 x T-bolts with nuts and ring eyelet



Image: A visual representation of the Phoenix Air Circulation Tube, highlighting its dimensions (118.11 inches long, 8.66 inches diameter) and the included accessories: 5 T-bolts with nuts and rings, and 5 fixing chains.

## 4. SETUP AND INSTALLATION

The Phoenix Air Circulation Tube can be installed either on the floor or suspended from the ceiling of your greenhouse. Choose the method that best suits your greenhouse layout and air circulation needs.

### 4.1 Preparing the Tube

1. Unroll the air circulation tube carefully.
2. Locate the opening designed to connect to your Bio Green Phoenix Greenhouse Heater & Fan.



## 4.2 Connecting to the Heater/Fan

1. Ensure your Phoenix Greenhouse Heater & Fan is turned off and unplugged.
2. Attach the open end of the air circulation tube to the fan outlet of the heater.
3. Secure the connection using the provided hose clamp. Tighten the clamp firmly to prevent air leakage and ensure stability.



Image: A detailed view of the tube's connection point to the fan, illustrating the use of the hose clamp for secure attachment and highlighting the durable Rainexo® tarp material.

## 4.3 Mounting Options

### Ceiling Mount:

1. Identify suitable anchor points in your greenhouse ceiling structure.
2. Attach the T-bolts with nuts and ring eyelets to the designated grommets along the top edge of the air circulation tube.
3. Use the provided fixing chains to suspend the tube from your chosen ceiling anchor points. Ensure the tube is level and securely supported along its entire length.

### Floor Placement:

1. Place the tube directly on the greenhouse floor, ensuring it is positioned to facilitate optimal air distribution.
2. Ensure the tube is not obstructing walkways or other essential greenhouse functions.



Image: The air circulation tube installed in a greenhouse, illustrating its connection to the fan and its role in achieving optimum and even air distribution, leading to energy savings.


## 5. OPERATING INSTRUCTIONS

The Phoenix Air Circulation Tube operates in conjunction with your Bio Green Phoenix Greenhouse Heater & Fan when the fan mode is active.


1. Once the tube is securely installed and connected to the fan, plug in your Bio Green Phoenix Greenhouse Heater & Fan.
2. Activate the fan mode on your heater. The fan will push air through the circulation tube.
3. The tube's design ensures that the air is evenly distributed throughout the greenhouse, eliminating cold spots and promoting uniform temperature and humidity.
4. This system is ideal for year-round use, providing ventilation in summer and aiding heat distribution in



winter.



## EVEN AIR DISTRIBUTION



Eliminate hot and cold spots and reduce drafts with the **PHOENIX AIR CIRCULATION TUBE'S** even distribution of air

Image: A schematic diagram demonstrating how the Phoenix Air Circulation Tube ensures even air distribution, effectively eliminating hot and cold spots and reducing drafts within the greenhouse.



### YEAR-ROUND USE

### VENTILATION IN SUMMER

### HEATING IN WINTER

Image: The Phoenix Air Circulation Tube is suitable for year-round use, providing essential ventilation during summer months and assisting with heat distribution in winter.

## 6. MAINTENANCE

Regular maintenance will ensure the longevity and optimal performance of your Phoenix Air Circulation Tube.

- **Cleaning:** Periodically wipe down the exterior of the tube with a damp cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly inspect the tube for any signs of tears, punctures, or damage to the material. Check the grommets and fixing chains for wear or corrosion.
- **Connection Check:** Ensure the hose clamp connecting the tube to the fan remains tight and secure. Re-tighten if necessary.
- **Storage:** If storing the tube for an extended period, ensure it is clean and dry. Roll it up neatly and store it in a cool, dry place away from direct sunlight and pests.

## 7. TROUBLESHOOTING

If you encounter issues with your Phoenix Air Circulation Tube, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Uneven Air Distribution	Tube not properly aligned or sagging. Obstructions in the greenhouse.	Adjust the tube's position and tension using the fixing chains. Remove any obstructions. Ensure the fan is operating correctly.
Tube Detaches from Fan	Hose clamp is loose or not properly secured.	Re-attach the tube to the fan outlet and tighten the hose clamp firmly.
Tears or Punctures in Tube	Contact with sharp objects or excessive tension.	Small tears may be repaired with a suitable greenhouse film repair tape. For large tears or significant damage, the tube may need replacement.
Reduced Airflow	Tube partially collapsed or obstructed internally. Fan issue.	Check the tube for internal obstructions or kinks. Ensure the fan is clean and operating at full capacity.

## 8. SPECIFICATIONS

Feature	Detail
Model Name	Phoenix Air Circulation Tube
Model Number	PHX/ES
Brand	Bio Green
Product Dimensions	118.11"L x 8.6"W x 8.6"H (approx. 300 cm L x 22 cm W x 22 cm H)
Material	RAINEXO Greenhouse Film (0.018 lb/ft²)
Color	Gray
Mounting Type	Ceiling Mount, Floor Mount
Included Components	1 Air Circulation Tube, 1 Hose Clamp, 5 Chains, 5 T-bolts with nuts and ring eyelet
Item Weight	1.98 pounds (approx. 0.9 kg)
Specific Uses For Product	Greenhouse Air Circulation

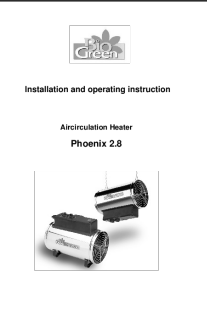
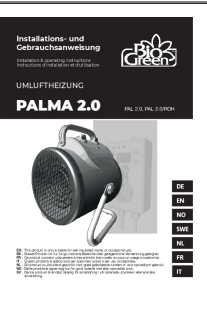

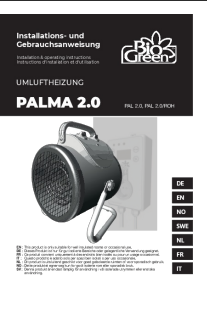
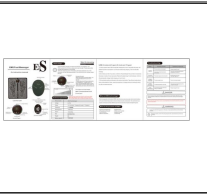
## 9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your Bio Green Phoenix Greenhouse Heater & Fan, or visit the official Bio Green website. Keep your proof of purchase

for any warranty claims.

For additional assistance, you may contact Bio Green customer service through their official channels.

Related Documents - PHX/ES

	<p><a href="#">Bio Green Phoenix 2.8 Air Circulation Heater: Installation and Operation Manual</a></p> <p>Comprehensive guide for installing and operating the Bio Green Phoenix 2.8 air circulation heater, including technical data, safety instructions, and usage recommendations for greenhouses and winter gardens.</p>
	<p><a href="#">Bio Green Palma 2.0 Air Circulation Heater: Installation &amp; Operating Manual</a></p> <p>Comprehensive guide for installing and operating the Bio Green Palma 2.0 and Palma 2.0 RAW air circulation heaters, including technical data, safety instructions, and maintenance.</p>
	<p><a href="#">Bio Green Frosty 2500 / 4500 Greenhouse Heater: Installation and Operation Manual</a></p> <p>Comprehensive installation and operation manual for the Bio Green Frosty 2500 and Frosty 4500 gas-powered greenhouse heaters. Covers safety, setup, operation, technical data, and troubleshooting.</p>
	<p><a href="#">Bio Green Palma 2.0 Installation and Operating Instructions</a></p> <p>Comprehensive guide for the Bio Green Palma 2.0 air circulator heater, covering installation, operation, and safety precautions. Includes details for both manual and digital thermostat models.</p>
	<p><a href="#">ES EMS Foot Massager Instruction Manual</a></p> <p>Instruction manual for the ES EMS Foot Massager, covering device operation, technical specifications, EMS technology, and troubleshooting. Features 6 modes and 9/19 gears for muscle stimulation and relaxation.</p>