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## Bio Green EF 135

# Bio Green EF 135 Frost Guard 135W Instruction Manual

Model: EF 135

## 1. INTRODUCTION

Thank you for choosing the Bio Green EF 135 Frost Guard. This electric frost protection device is designed to safeguard your plants from freezing temperatures in various environments. Its robust construction and efficient heating ensure optimal conditions for sensitive plants during colder periods. Please read this manual carefully before installation and operation to ensure safe and effective use.

## 2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the device:

- **Electrical Safety:** Ensure the device is connected to a properly grounded power outlet. Do not use if the power cord or plug is damaged.
- **Placement:** Do not place the frost guard near flammable materials. Maintain adequate clearance around the device for proper heat dissipation.
- **Temperature:** The heating tube can reach temperatures up to 70°C. Avoid direct contact during operation.
- **Water Protection:** The device is splash-proof (IP X6 / IP 55), making it suitable for damp environments. However, do not immerse it in water.
- **Supervision:** Do not leave the device unattended for extended periods, especially during initial operation.
- **Children and Pets:** Keep the device out of reach of children and pets to prevent accidental burns or electrical hazards.
- **Ventilation:** Ensure adequate ventilation around the device. Do not cover the frost guard while it is operating.

## 3. PRODUCT FEATURES

- **Power Output:** 135 Watts, providing effective frost protection.
- **Splash-Proof Design:** Rated IP X6 (also indicated as IP 55 in some visuals), suitable for use in damp

environments like greenhouses.

- **Versatile Installation:** Designed for both floor and wall mounting.
- **Durable Construction:** Features a robust metal heating tube.
- **Energy Efficient:** Provides reliable heating with optimized power consumption.
- **Temperature Range:** Can reach surface temperatures of up to 70°C, designed to prevent overheating.
- **Compatibility:** Can be combined with separately available thermostats for automatic temperature control.
- **Made in Germany:** High-quality manufacturing standards.

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Image: The Bio Green EF 135 Frost Guard providing warmth to plants in a greenhouse, highlighting its 135W power and IP55 splash protection rating. Arrows indicate heat rising from the device.



Image: A detailed view of the Bio Green EF 135 Frost Guard, illustrating its metal heating tube, the plug for easy connection, and the brackets for secure wall or floor mounting. Text indicates energy efficiency.

## 4. SETUP

The Bio Green EF 135 Frost Guard offers flexible installation options:

## 4.1. Choosing a Location

Select a location within your greenhouse, cellar, or other damp room where frost protection is needed. Ensure the device is placed away from direct contact with plants or other objects that could obstruct heat flow.

## 4.2. Mounting

The frost guard can be installed on the floor or mounted on a wall using the provided brackets.

- **Floor Installation:** Simply place the device on a stable, level surface using its integrated feet.
- **Wall Mounting:** Use appropriate screws and wall plugs (not included) to secure the brackets to a wall. Then, attach the frost guard to the mounted brackets. Ensure the device is securely fastened.



Image: Illustrations demonstrating the two primary mounting methods for the Bio Green EF 135 Frost Guard: secure wall mounting and stable floor placement. The image also shows the device's dimensions.

## 4.3. Electrical Connection

Once mounted, plug the device into a suitable electrical outlet. Ensure the outlet meets the power requirements of the frost guard (230V, 135W).

## 5. OPERATING INSTRUCTIONS

The Bio Green EF 135 Frost Guard is designed for straightforward operation:

- **Activation:** The device begins heating immediately upon being plugged into a live power outlet.
- **Temperature Control:** For automatic temperature regulation, it is recommended to use the EF 135 in conjunction with a separately purchased external thermostat. Connect the frost guard to the thermostat, and set your desired temperature. The thermostat will then switch the frost guard on and off as needed to maintain the set temperature.

- **Deactivation:** To turn off the device, simply unplug it from the power outlet.



Image: The Bio Green EF 135 Frost Guard shown alongside a separate digital thermostat, illustrating how the device can be combined with external controls for automatic temperature regulation. The image also highlights that the device reaches up to 70°C without overheating.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Bio Green EF 135 Frost Guard:

- **Cleaning:** Before cleaning, always unplug the device from the power outlet and allow it to cool completely. Wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the power cord and the device for any signs of damage. If damage is found, discontinue use and contact customer support.
- **Storage:** When not in use, store the frost guard in a dry, protected area, away from extreme temperatures and direct sunlight.

## 7. TROUBLESHOOTING

If you encounter issues with your Bio Green EF 135 Frost Guard, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not heat up.	No power supply. Faulty power outlet. Damaged power cord.	Check if the device is properly plugged in. Test the power outlet with another appliance. Inspect the power cord for damage; if damaged, do not use and contact support.
Device is hot to the touch.	Normal operation.	This is normal. The device can reach up to 70°C. Ensure it is not near flammable materials and maintain clearance.
Temperature is not regulated automatically.	No external thermostat connected.	The EF 135 does not have an integrated thermostat. For automatic temperature control, connect it to a separately purchased external thermostat.

## 8. SPECIFICATIONS

Specification	Detail
Model Number	EF 135
Power Output	135 W
Product Dimensions	92 x 10 x 10 cm (approx. 5D x 92B x 6H cm)
Weight	1.56 kg
Material Type	Metal (Frost Guard)
Power Source	Wired Electric
Manufacturer	Bio Green
Special Features	Splash protection (IP X6 / IP 55), compatible with external thermostatic control
Color	Green
Form Factor	Lightweight tube
Usage Environment	Indoor (suitable for damp rooms like greenhouses, cellars, garden sheds, raised beds, foil tunnels)
Heating Method	Radiation
Mounting Type	Wall or Floor Mounting

## 9. WARRANTY AND SUPPORT

For warranty information, technical assistance, or to purchase replacement parts, please refer to the official Bio Green website or contact Bio Green customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

**Bio Green Contact Information:**

Please visit [www.biogreen.de](http://www.biogreen.de) for detailed contact information and support resources.

