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Model: DN103

For Twinstar Electric Fireplaces: 28E05, 28E05R, TS-001, 23EF010GAA, 10QI071ARA

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Direct Store DN103 Replacement Fireplace Fan Blower and Heating Element. Please read this manual thoroughly before installation or use and retain it for future reference.

The DN103 unit is designed to replace the fan blower and heating element in specific Twinstar electric fireplaces and wood-burning stoves, enhancing heat distribution and overall efficiency.

2. SAFETY INFORMATION

- **Electrical Safety:** Always disconnect power to the fireplace or stove before attempting any installation, maintenance, or repair. Failure to do so can result in electric shock or serious injury.
- **Professional Installation:** If you are not comfortable with electrical wiring or mechanical installation, seek assistance from a qualified technician.
- **Component Handling:** The heating element can be fragile. Handle with care to avoid damage.
- **Ventilation:** Ensure proper ventilation around the fireplace unit to prevent overheating.
- **Temperature:** The heating element operates at high temperatures. Avoid touching it during operation or immediately after shutdown.

3. PRODUCT OVERVIEW

The Direct Store DN103 is a combined fan blower and heating element unit. It features a tangential blower for efficient air movement and a robust heating element for warmth.



Figure 3.1: Front view of the Direct Store DN103 Replacement Fireplace Fan Blower and Heating Element.

3.1. Dimensions

- **Overall Product Dimensions:** Approximately 10 inches (L) x 3 inches (W) x 4 inches (H)
- **Fan Blower Size:** 9.75 inches (L) x 3.73 inches (W) x 3.23 inches (H)
- **Fan Blower Diameter:** 2.36 inches
- **Fan Blower Length:** 7.28 inches
- **Heater Element Size:** 7.87 inches (L) x 1.38 inches (W)



Figure 3.2: Detailed view of the DN103 unit, illustrating its compact design and various components including the tangential blower and heating element.

4. SETUP AND INSTALLATION

This section outlines the general steps for installing the DN103 unit. Specific fireplace models may have slight variations. Always refer to your fireplace's original manual for precise instructions on accessing and replacing internal components.

4.1. Pre-Installation Steps

1. **Disconnect Power:** Turn off and unplug your electric fireplace or stove from the main power supply.
2. **Access Unit:** Carefully open the access panel or remove the necessary components to reach the existing fan blower and heating element assembly.
3. **Inspect Old Unit:** Note the orientation and wiring connections of the old unit before removal. Take photos if necessary.
4. **Remove Old Unit:** Disconnect all wiring and mounting screws holding the old unit in place. Carefully remove it.

4.2. Installing the DN103 Unit

5. **Position New Unit:** Place the DN103 replacement unit into the designated space within your fireplace. Ensure it fits securely.
6. **Secure Unit:** Use the existing mounting points or adapt as necessary to firmly secure the DN103 unit.
7. **Wiring Connections:** Connect the wiring from the DN103 unit to the fireplace's electrical system. The unit typically includes pre-wired connections. Ensure all connections are secure and correctly matched (e.g., live to live, neutral to neutral, ground to ground).

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Video 4.1: Installation overview for the Direct Store DN103 Fireplace Fan and Heating Element. This video demonstrates the general process of replacing the unit, including wiring connections.

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Video 4.2: General installation guide for a Twin Star Electric Fireplace Blower. This video provides visual steps for connecting the blower unit.

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Video 4.3: Replacement process for a Fireplace Fan Blower with Heating Element for Twin Star electric fireplaces. This video illustrates the steps involved in replacing the combined unit.

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Video 4.4: Installation steps for a DN102 Fireplace Blower Replacement for Twin Star fireplace. While for a slightly different model, the process is largely similar and can provide helpful visual guidance.

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Video 4.5: Replacement guide for a DN101 Fireplace Blower/Fan and Heating Element. This video offers additional visual aid for similar unit replacements.

8. **Reassemble Fireplace:** Close the access panel and reassemble any components that were removed.
9. **Test Unit:** Plug the fireplace back into the power supply and test the fan blower and heating functions.

5. OPERATING INSTRUCTIONS

The Direct Store DN103 unit operates in conjunction with your fireplace's existing controls. Once installed, the fan blower and heating element will function as part of your fireplace's heating system.

- **Automatic Operation:** The fan blower is designed to activate automatically when the heating element reaches a certain temperature (typically above 120°F / 50°C) and will continue to run until the temperature drops below this threshold.
- **Heat Distribution:** The tangential blower effectively circulates warm air from the fireplace into the room,

improving heat distribution.

- **Quiet Operation:** The unit is designed for quiet operation, minimizing noise while maximizing heat output.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your DN103 unit.

- **Power Disconnection:** Always disconnect power before performing any maintenance.
- **Cleaning:** Periodically inspect the fan blades and heating element for dust and debris. Use a soft brush or vacuum cleaner to gently remove any accumulation. Do not use liquids or abrasive cleaners.
- **Inspection:** Check wiring connections for any signs of wear, fraying, or loose connections. Ensure the unit is securely mounted.
- **No Lubrication:** The motor is permanently lubricated and does not require additional oiling.

7. TROUBLESHOOTING

If you experience issues with your DN103 unit, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Fan not turning on.	No power to the unit. Thermostat not reaching activation temperature. Loose wiring connection.	Check fireplace power supply. Ensure fireplace is set to heat. Inspect and secure all wiring connections (after disconnecting power).
No heat output.	Heating element failure. Incorrect wiring.	Contact customer support for replacement. Verify wiring connections according to installation instructions.
Excessive noise or vibration.	Loose mounting. Debris in fan blades. Worn motor bearings.	Ensure unit is securely mounted. Clean fan blades (after disconnecting power). If motor is worn, replacement may be necessary.

If troubleshooting steps do not resolve the issue, please contact Direct Store customer support.

8. SPECIFICATIONS

- **Model Number:** DN103
- **Power:** 1350W
- **Voltage:** 120V
- **Temperature Protecting PTC:** 105°C / 221°F
- **Motor Approval:** UL Approved
- **Motor RPM:** 1200-1500
- **Speed:** 2.5-3.1 m/s
- **Airflow (CFM):** 71 CFM
- **Item Weight:** 1.98 pounds

- **Manufacturer:** Direct Store

9. WARRANTY AND SUPPORT

For any issues, questions, or warranty claims regarding your Direct Store DN103 Replacement Fireplace Fan Blower and Heating Element, please contact Direct Store customer support. Provide your model number (DN103) and purchase details for efficient assistance.

Contact information for Direct Store can typically be found on their official website or through your purchase platform.