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ce 903404 Draft Inducer Motor User Manual for Nordyne Furnaces

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ce 903404 Draft Inducer Motor User Manual

For Nordyne, Nortek, and Intertherm Furnaces

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Advia

ce 903404 Draft Inducer Motor. This component is designed to ensure proper ventilation and combustion within compatible furnace systems.

1.1 What's in the Box

- 1 x Advia
- ce 903404 Draft Inducer Blower Motor



Image 1.1: The Advia 903404 Draft Inducer Motor, a key component for furnace ventilation.

2. SAFETY INFORMATION

WARNING: Installation and servicing of heating equipment can be hazardous. This unit must be installed and serviced by qualified personnel only. Failure to follow these instructions could result in property damage, personal injury, or death.

- Always disconnect power to the furnace before attempting any installation, maintenance, or repair.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure all electrical connections are secure and comply with local electrical codes.
- Verify that the replacement motor specifications match the original motor's requirements.
- Do not operate the furnace if any components are damaged or improperly installed.

3. PRODUCT SPECIFICATIONS

The Advia 903404 Draft Inducer Motor is engineered to meet specific operational parameters for optimal furnace

performance.

Specification	Value
Volts	120 V
Amps	0.65 A
Cycles	60 Hz
RPM	3100
Power	38 W
Wire Length	8.5 inches with 2-prong molex plug
Bearing Type	100% Sealed Ball Bearing
Package Dimensions	10.47 x 7.52 x 7.13 inches
Weight	3.33 Pounds

Technical Specifications

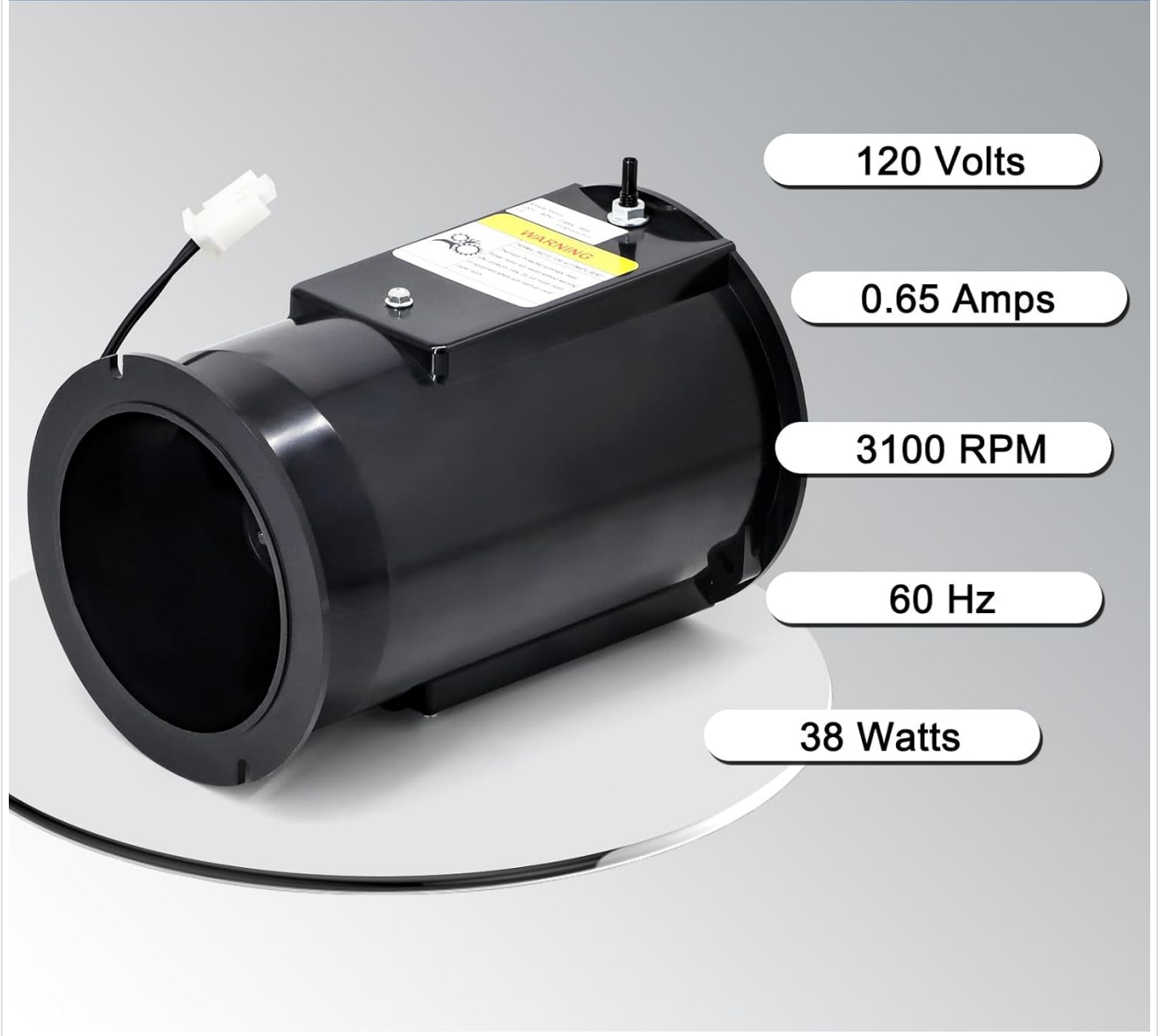


Image 3.1: Visual representation of the technical specifications for the inducer motor.



Image 3.2: Detailed dimensions of the Advia 903404 Draft Inducer Motor for fitment verification.

4. COMPATIBILITY

The Advia 903404 Draft Inducer Motor is designed as a replacement for various Nordyne, Nortek, Intertherm, Miller, and Gibson branded furnaces. It replaces numerous part numbers and is compatible with a wide range of furnace models.

4.1 Compatible Furnace Models (Partial List)

- Nordyne M1GB 077A AW, M1GB 077A BW
- Nordyne M1GB 090A AW, M1GB 090A BW
- Nordyne M1GC 077A AW, M1GC 077A BW
- Nordyne M1GC 090A AW, M1GC 090A BW
- Nordyne M1GD 077A BW, M1GD 090A BW
- Nordyne M1GH 077A AW, M1GH 077A BW

- Nordyne M1GH 090A AW, M1GH 090A BW
- Nordyne M1MA 056A AW, M1MA 056A BW
- Nordyne M1MA 070A AW, M1MA 070A BW
- Nordyne M1MB 056A AW, M1MB 056A BW
- Nordyne M1MB 070A AW, M1MB 070A BW
- Nordyne M1MB 077A AW, M1MB 077A BW
- Nordyne M1MB 090A AW, M1MB 090A BW
- Nordyne M1MC 056A AW, M1MC 056A BW
- Nordyne M1MC 070A AW, M1MC 070A BW
- Nordyne M1MC 077A AW, M1MC 077A BW
- Nordyne M1MC 090A AW, M1MC 090A BW
- Nordyne M1MD 056A BW, M1MD 070A BW, M1MD 077A BW, M1MD 090A BW

Always verify the specifications of your existing motor against the Advia 903404 to ensure correct fit and function.

Perfect Fit for Your Nordyne Furnaces

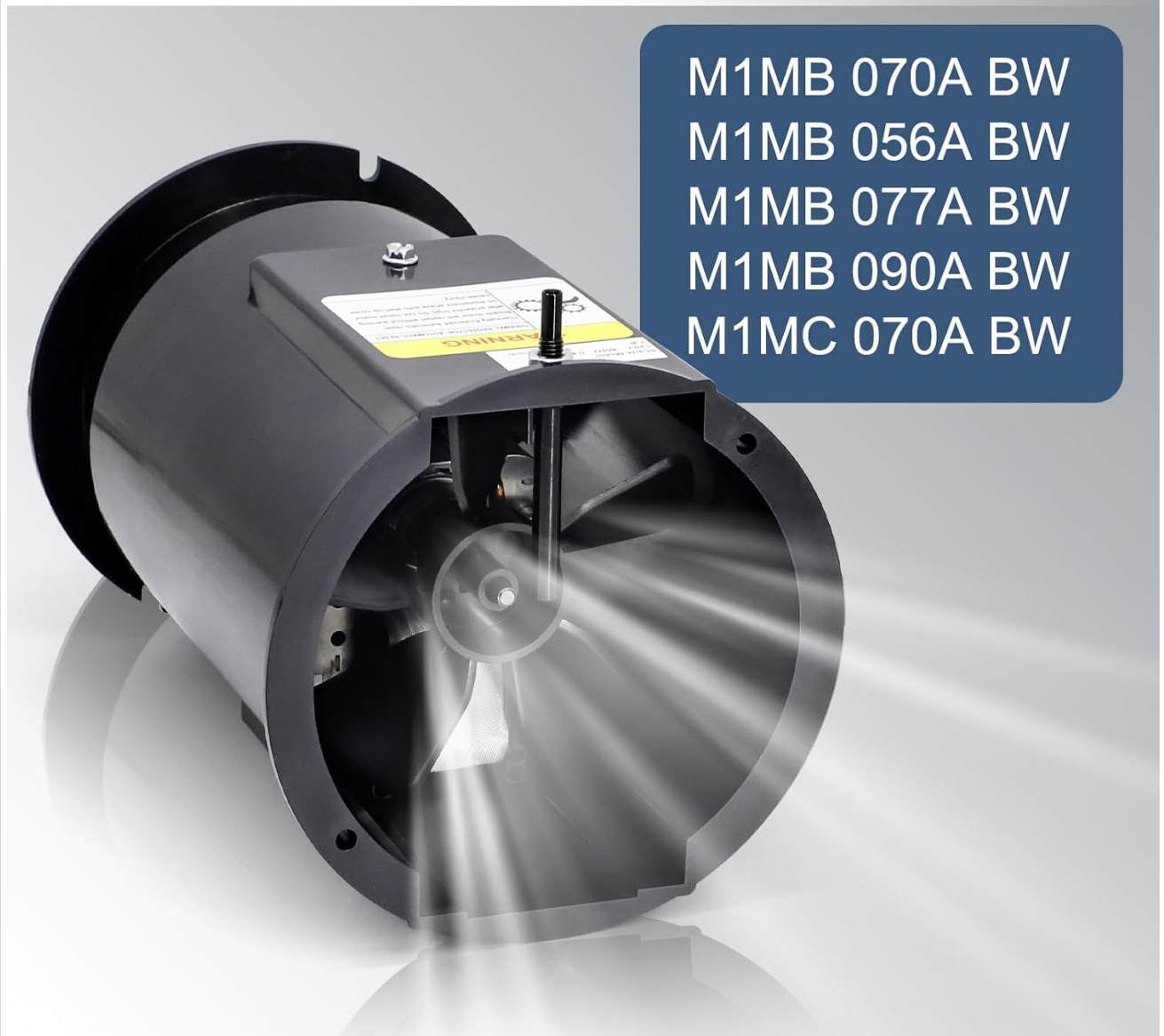


Image 4.1: The inducer motor designed for compatibility with various Nordyne furnace models.

5. INSTALLATION AND SETUP

The Advia 903404 Draft Inducer Motor is designed for straightforward replacement. However, due to the electrical and gas components involved, installation should only be performed by a qualified technician or an individual with appropriate experience in HVAC systems.

5.1 Pre-Installation Steps

1. **Power Disconnection:** Turn off all electrical power to the furnace at the main breaker or fuse box. Verify power is off using a voltage tester.
2. **Gas Supply:** If applicable, turn off the gas supply to the furnace.
3. **Access:** Open the furnace access panels to locate the existing draft inducer motor.
4. **Documentation:** Take photos of the existing wiring and mounting for reference.

5.2 Removal of Old Motor

1. Disconnect the electrical wiring from the old motor. Note the connection points.
2. Disconnect any pressure switch tubing connected to the motor.
3. Unbolt or unfasten the old motor from its mounting bracket. Carefully remove the motor.

5.3 Installation of New Motor

1. Position the new Advia 903404 motor onto the mounting bracket. Secure it with the appropriate fasteners.
2. Connect the pressure switch tubing to the new motor's port. Ensure a tight seal.
3. Connect the electrical wiring to the new motor's 2-prong moxex plug. The design is typically 'plug and play' for compatible systems, requiring no electrical modifications.
4. Double-check all connections for security and proper routing.

5.4 Post-Installation Steps

1. Replace all furnace access panels.
2. Restore the gas supply (if applicable).
3. Restore electrical power to the furnace.
4. Initiate a test cycle to ensure the furnace operates correctly and the new inducer motor functions as expected. Listen for unusual noises and check for error codes.

Easy Installtion

No electrical or hardware modifications required- plug and play!



Image 5.1: The Advia 903404 motor shown in an installation context, highlighting its 'plug and play' design.

6. OPERATING PRINCIPLES

The draft inducer motor is a critical component in modern high-efficiency furnaces. Its primary function is to draw combustion air into the furnace and expel exhaust gases out through the flue. This process creates a negative pressure within the combustion chamber, allowing the pressure switch to close and initiate the main burner ignition sequence.

The Advia 903404 motor features 100% sealed ball bearings, contributing to its quiet operation and extended lifespan compared to sleeve bearing blowers. It is designed to run smoothly and efficiently, ensuring consistent furnace performance.

Great Furnace Draft Inducer Motor Replacement



Run Smoothly



Quiet Operation



Durable

Image 6.1: Key operational benefits of the Advia 903404 motor, including smooth and quiet performance.

7. MAINTENANCE

The Advia 903404 Draft Inducer Motor is designed for minimal maintenance. The sealed ball bearings do not require lubrication. Regular furnace maintenance, typically performed by a qualified HVAC technician, should include a visual inspection of the inducer motor.

7.1 Recommended Checks

- **Visual Inspection:** Annually inspect the motor for any signs of physical damage, corrosion, or excessive dust accumulation.
- **Noise Levels:** Listen for any unusual noises during operation, which could indicate a developing issue.
- **Fan Blades:** Ensure the fan blades are free from debris and are not hitting the housing. The fan blades are designed for durability and to resist detachment.
- **Electrical Connections:** Verify that all electrical connections remain secure.

Fan Blades Without Defects

- ✓ Will not easily break
- ✓ Will not hit the sides of the housing
- ✓ Will not easily detach from the motor



Image 7.1: Illustration of the robust design of the inducer motor's fan blades, ensuring reliable operation.

8. TROUBLESHOOTING

If your furnace is experiencing issues related to the draft inducer motor, consider the following common problems and solutions. Always ensure power is disconnected before inspecting or servicing the motor.

8.1 Common Issues and Solutions

- **Motor Not Running / Furnace Error Code (e.g., "Pressure Switch Open"):**
 - **Cause:** The inducer motor may have failed, or there might be an obstruction preventing it from spinning. A failed motor will not create enough draft to close the pressure switch.
 - **Solution:** Disconnect power. Inspect the motor for any visible damage or obstructions. If the motor does not spin freely by hand or shows signs of electrical failure, replacement may be necessary. Verify the pressure switch tubing is clear and properly connected.
- **Unusual Noises (Grinding, Squealing):**

- **Cause:** Worn bearings (less likely with sealed ball bearings but possible over time), debris in the blower wheel, or motor imbalance.
- **Solution:** Disconnect power. Inspect the blower wheel for debris. If the noise persists and is clearly from the motor, replacement may be required.

- **Motor Runs, But Furnace Does Not Ignite:**

- **Cause:** The motor may not be generating sufficient draft, or the pressure switch itself is faulty.
- **Solution:** Verify the pressure switch tubing is clear and connected. Check the pressure switch for proper operation. Consult a qualified technician if the issue persists.

9. REPLACEMENT PART NUMBERS

The Advia 903404 Draft Inducer Motor is a compatible replacement for the following part numbers:

- WP903404, AP6013610, 903404, 65404, 03000133, 1607, 65020, 7-57012, 757012, 86-020, 9-0479, 9-0886, 9-11251, 9-12306, 9-12845, 9-2810, 9-3404, 9-3408, 9-3963, 9-886, 900479, 900886, 902810, 903408, 903963, 911251, 912306, 912845, DW822, DWD8AC, PS11746837, Y03000133, Y912845

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The Advia 903404 Draft Inducer Motor comes with a **1-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, warranty claims, or further inquiries, please contact your retailer or the Advia customer support team. Provide your product model number (903404) and date of purchase when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question