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## Infun K55HXJPM-9251

# Infun K55HXJPM-9251 Condenser Fan Motor Instruction Manual

Model: K55HXJPM-9251

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## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Infun K55HXJPM-9251 Condenser Fan Motor. Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.



Figure 1: Infun K55HXJPM-9251 Condenser Fan Motor. This image displays the general appearance of the condenser fan motor, typically cylindrical with a shaft extending from one end, and electrical connections.

## 2. SAFETY INFORMATION

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**WARNING:** Failure to follow these safety instructions may result in electric shock, fire, serious injury, or death.

- Installation and servicing should only be performed by qualified HVAC technicians or licensed electricians.
- Always disconnect power to the HVAC unit at the circuit breaker or fuse box before installing, servicing, or cleaning the motor. Verify power is off using a voltage tester.
- Ensure all wiring connections comply with local and national electrical codes.
- Wear appropriate personal protective equipment (PPE), including safety glasses and electrical gloves, during installation and maintenance.
- Do not operate the motor if it is damaged or if any electrical components are exposed.
- Keep hands, tools, and clothing clear of moving parts, especially the fan blade, when the motor is in operation or power is connected.
- This motor is designed for specific voltage and RPM. Ensure compatibility with your system before installation.

## 3. PACKAGE CONTENTS

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Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact your supplier immediately.

- Infun K55HXJPM-9251 Condenser Fan Motor (1 unit)
- Mounting bolts (quantity may vary, typically 4)

- This instruction manual (1 copy)

## 4. SETUP AND INSTALLATION

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**Important:** Installation should be performed by a qualified professional. Incorrect installation can lead to equipment damage, injury, or fire.

1. **Disconnect Power:** Before beginning, ensure the main power to the HVAC unit is completely disconnected at the circuit breaker. Verify with a voltage tester.
2. **Remove Old Motor:** Carefully disconnect the wiring from the old motor and unbolt it from its mounting bracket. Note the wiring configuration for proper re-connection.
3. **Prepare Mounting Holes:** The mounting holes on the Infun K55HXJPM-9251 motor may require tapping to create threads for the mounting bolts. Use an appropriate tap and die set to thread the holes if necessary. This ensures a secure fit for the mounting bolts.
4. **Mount New Motor:** Secure the new Infun K55HXJPM-9251 motor to the condenser unit's mounting bracket using the provided or appropriate bolts. Ensure the motor is firmly seated and aligned.
5. **Connect Wiring:** Reconnect the electrical wiring to the new motor, matching the configuration of the old motor. Pay close attention to the capacitor connections if applicable. Refer to the wiring diagram of your HVAC unit if available.
6. **Install Fan Blade:** Attach the fan blade to the motor shaft, ensuring it is securely fastened and balanced. Check for proper clearance between the blade and the condenser housing.
7. **Final Checks:** Double-check all connections and mounting points. Ensure no tools or debris are left inside the unit.
8. **Restore Power:** Once installation is complete and verified, restore power to the HVAC unit.

## 5. OPERATING INSTRUCTIONS

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The Infun K55HXJPM-9251 Condenser Fan Motor operates automatically as part of your HVAC system. When the thermostat calls for cooling, the condenser unit, including this fan motor, will activate to dissipate heat from the refrigerant. No direct user interaction is required for its operation.

- Ensure the HVAC system is set to the desired cooling mode.
- Listen for smooth operation. Any unusual noises should be investigated immediately.
- Observe the fan blade rotation to ensure it spins freely and in the correct direction (typically counter-clockwise when viewed from the top, but verify with your unit's specifications).

## 6. MAINTENANCE

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Regular maintenance helps ensure the longevity and efficient operation of your condenser fan motor. Always disconnect power before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the motor and fan assembly annually, typically before the cooling season.
- **Cleaning:** Periodically clean the exterior of the motor and fan blades to remove dirt, dust, and debris. Accumulated debris can reduce efficiency and cause overheating. Use a soft brush or cloth. Do not use water directly on the motor.
- **Check Wiring:** Inspect electrical connections for signs of wear, corrosion, or looseness. Tighten any loose connections.

- **Lubrication:** This motor is typically sealed and does not require lubrication. Refer to the motor's label for specific lubrication requirements if any.
- **Vibration Check:** Ensure the motor is securely mounted and not vibrating excessively during operation, which could indicate a loose mounting or an unbalanced fan blade.

## 7. TROUBLESHOOTING

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Before attempting any troubleshooting, ensure the power to the unit is disconnected. If you are not comfortable performing these steps, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Motor does not start or hums but doesn't spin.	<ul style="list-style-type: none"> <li>◦ No power to the unit.</li> <li>◦ Faulty capacitor.</li> <li>◦ Motor seized or obstructed.</li> <li>◦ Incorrect wiring.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Check circuit breaker and thermostat settings.</li> <li>◦ Test and replace capacitor if necessary (by a professional).</li> <li>◦ Inspect for obstructions; if seized, motor may need replacement.</li> <li>◦ Verify wiring against diagram.</li> </ul>
Motor runs but fan blade does not spin.	<ul style="list-style-type: none"> <li>◦ Loose fan blade on shaft.</li> <li>◦ Damaged fan blade.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Tighten set screw on fan blade.</li> <li>◦ Replace damaged fan blade.</li> </ul>
Excessive noise or vibration.	<ul style="list-style-type: none"> <li>◦ Loose mounting bolts.</li> <li>◦ Unbalanced fan blade.</li> <li>◦ Worn motor bearings.</li> <li>◦ Debris in fan housing.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Tighten mounting bolts.</li> <li>◦ Inspect and balance/replace fan blade.</li> <li>◦ Motor replacement may be necessary.</li> <li>◦ Clean fan housing.</li> </ul>
Motor overheats and shuts off.	<ul style="list-style-type: none"> <li>◦ Poor airflow (dirty coils, blocked vents).</li> <li>◦ Overload (incorrect fan blade, seized bearings).</li> <li>◦ Incorrect voltage.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Clean condenser coils and ensure clear airflow.</li> <li>◦ Verify fan blade specifications; check for motor resistance.</li> <li>◦ Confirm correct voltage supply.</li> </ul>

## 8. SPECIFICATIONS

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The following are the technical specifications for the Infun K55HXJPM-9251 Condenser Fan Motor:

- **Model:** K55HXJPM-9251
- **Brand:** Infun
- **Horsepower (HP):** 1/6 HP
- **Voltage:** 200-230 Volts
- **Speed:** 825 RPM
- **Product Dimensions:** 14 x 7 x 7 inches
- **Item Weight:** 14 pounds
- **Manufacturer:** Comfort Valley

## 9. WARRANTY AND SUPPORT

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For warranty information, please refer to the documentation provided at the time of purchase or contact your seller directly. Warranty terms and conditions may vary.

For technical support or assistance with installation and troubleshooting beyond the scope of this manual, it is recommended to contact a qualified HVAC professional or the manufacturer, Comfort Valley.

Keep your purchase receipt and any warranty cards in a safe place for future reference.

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