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› Pentair Blower Kit 77707-0253 Instruction Manual for MasterTemp 400 and Max-E-Therm 400 Heaters

Pentair 77707-0253

Pentair Blower Kit Instruction Manual

Model: 77707-0253 for MasterTemp 400 & Max-E-Therm 400 Natural Gas Heaters

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Pentair Blower Kit, model 77707-0253. This kit is designed as a replacement combustion air blower for Pentair MasterTemp 400NA and Sta-Rite Max-E-Therm 400NA natural gas pool and spa heaters. Please read all instructions carefully before proceeding with installation or service.

IMPORTANT SAFETY INFORMATION

WARNING: This product must be installed and serviced by a qualified pool professional or licensed technician. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read all installation and operating instructions completely before installing or servicing this product.

- Always disconnect power to the heater before performing any service or maintenance.
- Ensure all gas connections are properly sealed and tested for leaks after installation.
- Do not operate the heater if any part of the blower kit is damaged or appears to be malfunctioning.
- Refer to your main heater's instruction manual for additional safety warnings and procedures.

PRODUCT OVERVIEW

The Pentair Blower Kit 77707-0253 is a critical component for the combustion system of compatible pool and spa heaters, ensuring proper airflow for efficient and safe operation. The kit includes the blower assembly and necessary installation hardware.



Figure 1: Main Blower Assembly. This image shows the complete blower unit with the motor and housing, as it would appear when installed.



Figure 2: Kit Components. This image displays the additional parts included in the kit, such as the gasket, brass orifice, nuts, screws, wiring harness, and air tubes, essential for a complete installation.



Figure 3: Blower Assembly Rear View. This perspective shows the back of the blower unit, highlighting the motor's electrical connections and the overall housing design.



Figure 4: Blower Assembly Intake View. This image provides a view into the air intake port of the blower, showing the impeller mechanism responsible for drawing in combustion air.

SETUP AND INSTALLATION

This blower kit is intended as a direct replacement part. Refer to your specific Pentair MasterTemp 400NA or Sta-Rite Max-E-Therm 400NA heater manual for detailed disassembly and reassembly instructions. The following steps are general guidelines.

1. **Preparation:** Turn off all electrical power to the heater at the main breaker. Shut off the gas supply to the heater.
2. **Access:** Remove the heater's outer jacket or access panels to expose the existing blower assembly.
3. **Disconnect Old Blower:** Carefully disconnect the electrical wiring harness and any associated air tubes or gas lines from the old blower. Note their positions for reinstallation. Remove mounting hardware securing the old blower.
4. **Remove Old Blower:** Detach and remove the old blower assembly. Inspect the mounting surface for any debris or corrosion and clean as necessary.
5. **Install New Blower:** Position the new Pentair Blower Kit 77707-0253 in place. Ensure the new gasket (included in the kit) is properly seated between the blower and the heater's combustion chamber. Secure the blower with the provided mounting hardware.
6. **Connect Wiring and Tubing:** Connect the new electrical wiring harness to the heater's control board. Attach the air tubes and any other necessary connections. If replacing a natural gas heater blower, ensure the correct brass orifice is installed (if

applicable and not already present).

- 7. **Gas Connection (if disturbed):** If any gas lines were disconnected, reconnect them securely. Perform a leak test on all gas connections using a suitable leak detection solution.
- 8. **Final Checks:** Double-check all connections for tightness and proper routing. Ensure no wires are pinched or exposed.
- 9. **Restore Power:** Replace all access panels and the heater jacket. Restore gas supply and electrical power to the heater.

OPERATING INSTRUCTIONS

Once the blower kit is installed, the heater's operation should return to normal. The blower is an automatic component that functions as part of the heater's combustion cycle.

- **Initial Startup:** After installation, turn on your heater as per its original operating instructions. Observe the heater's ignition sequence.
- **Verify Function:** Listen for the blower to activate before ignition. The heater should ignite smoothly and operate without unusual noises or error codes related to airflow.
- **Monitor Performance:** Ensure the heater maintains the desired water temperature and cycles on and off correctly.

MAINTENANCE

Regular inspection and maintenance can extend the life of your blower kit and ensure efficient heater operation.

- **Annual Inspection:** Have a qualified technician inspect the blower annually for signs of wear, corrosion, or debris accumulation.
- **Cleanliness:** Ensure the blower's air intake is free from obstructions such as leaves, dirt, or insect nests.
- **Wiring:** Check electrical connections for tightness and signs of damage.
- **Noise:** Pay attention to any changes in the blower's operating sound, which could indicate a developing issue.

TROUBLESHOOTING

If your heater is experiencing issues after blower kit installation, consider the following common problems:

- **Heater Not Igniting:** Ensure all electrical connections are secure. Verify the gas supply is on. Check for any error codes on the heater's display that might indicate an airflow issue (e.g., pressure switch fault).
- **Unusual Noises from Blower:** This could indicate a foreign object in the blower housing or a failing motor bearing. Disconnect power and inspect the blower. If the noise persists, the blower may require replacement.
- **Heater Cycles On/Off Rapidly:** This might suggest insufficient airflow. Check for obstructions in the blower intake or exhaust. Ensure all air tubes are correctly connected and not kinked.
- **Gas Leak Smell:** Immediately shut off the gas supply and power to the heater. Ventilate the area. Do not operate the heater. Contact a qualified professional to inspect and repair any gas leaks.

For persistent issues, consult your heater's main instruction manual or contact a qualified service technician.

SPECIFICATIONS

Model Number	77707-0253
Compatibility	Pentair MasterTemp 400NA, Sta-Rite Max-E-Therm 400NA Natural Gas Heaters
Product Dimensions	12.8 x 12.2 x 12.4 inches
Item Weight	13 pounds

Kit Includes	Blower assembly, single volt blower adapter, gasket, nuts, screws, air tubes, brass orifice (for NG)
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WARRANTY AND SUPPORT

For specific warranty information regarding your Pentair Blower Kit, please refer to the documentation provided with your original heater or contact Pentair customer support directly. Pentair provides technical support and assistance for their products.

Pentair Customer Support: Please visit the official Pentair website or refer to your heater's manual for contact details.

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