



MASTERTEMP® & MAX-E-THERM® HEATER

DIRECT AIR INTAKE DUCT WITH 3-INCH PVC PIPE KIT

MASTERTEMP® HEATER [KIT P/N 461031]

MAX-E-THERM® HEATER [KIT P/N 475002]

INSTALLATION INSTRUCTIONS



FAILURE TO FOLLOW ALL INSTRUCTIONS AND WARNINGS CAN RESULT IN SERIOUS BODILY

INJURY OR DEATH. THIS PRODUCT SHOULD BE INSTALLED AND SERVICED ONLY BY A QUALIFIED POOL SERVICE PROFESSIONAL. INSTALLERS, POOL OPERATORS AND OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS IN THE HEATER INSTALLATION AND USER'S GUIDE BEFORE USING THIS PRODUCT. THESE INSTRUCTIONS MUST BE LEFT WITH THE POOL OWNER.

Warnings and safety instructions for Pentair Aquatic Systems pumps and other related products are available at: <http://www.pentairpool.com/safety-warnings>
Call (800) 831-7133 for additional free copies of these instructions.

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS - SAVE THESE INSTRUCTIONS

Direct Air Intake Duct with 3-inch PVC Pipe (Indoor Installation)

For indoor heater installations where combustion air supply might be insufficient, the MasterTemp® and Max-E-Therm® heaters are certified for a direct air intake duct using 3-inch PVC pipe. If outside air is drawn through 3" PVC duct directly into the heater, PVC pipe can be installed in accordance with the following requirements:

The air intake opening **MUST** be installed at least 1 ft. above the roof line or normal snow levels for free air flow. The Category I or III exhaust vent termination cap must have at least 3 ft. minimum vertical clearance from air intake duct. *See diagram on next page.*

Air Intake Kit Contents

- Adapter -1, Vent Cap-1, 3" PVC pipe-1 (attached to adapter from manufacturing), 3" PVC Union-1
 - #8 Self-Tapping Screws (qty.5), Installation instructions.
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NOTE

Each 90-degree elbow reduces the maximum horizontal PVC air intake duct run by 12 feet and each 45-degree elbow in the PVC air intake duct run reduces the maximum run by 6 feet. See the Table 1 for the maximum lengths using 90-degree elbows.

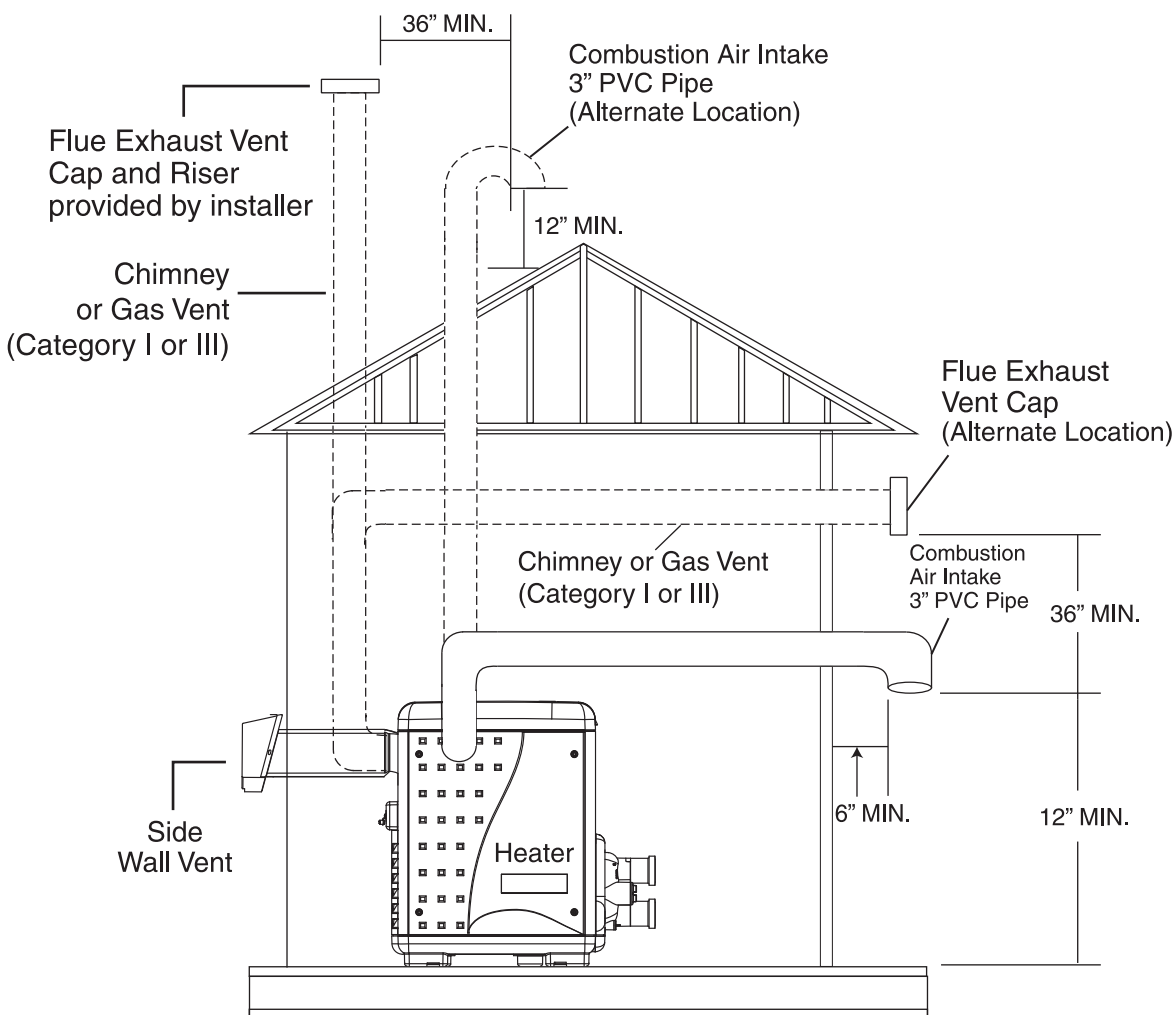
Combustion 3 in. PVC Pipe Inlet Air Intake Duct Requirements

Combustion Air Intake 3 in. Pipe (Vertical or Horizontal)	
No. of 90° Elbows	Maximum Length in Feet (M)
0	70 ft. (21.3 M)
1	58 ft. (17.7 M)
2	46 ft. (14.0 M)
3	34 ft. (10.4 M)
4	22 ft. (6.7 M)

Table 1.

⚠ WARNING!

DO NOT USE PVC PIPE FOR FLUE EXHAUST VENT. FLUE EXHAUST VENT TEMPERATURES CAN BE IN EXCESS OF 400° F. FLUE EXHAUST VENT **MUST BE** CATEGORY I or CATEGORY III METAL VENT.



Direct Air Intake Duct with 3-inch PVC Pipe (Indoor Installation) (MasterTemp® Heater shown)

INSTALLING THE PVC INTAKE VENT KIT ON THE MASTERTEMP® HEATER

When installing this kit, **basic safety precautions** should always be followed. Read and follow all instructions.

Required installation tools:

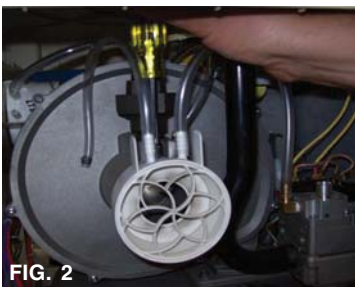
- Powered socket/nut driver
- 1/4" nut driver bit
- 5/16" socket and nut driver
- 3/8" nut driver

To install the PVC Intake Kit on the MaterTemp® Heater:

1. Remove right side panel from the heater (Fig. 1).



2. Loosen air orifice top and bottom screws on the blower (Fig. 2 and Fig. 3).



4. Remove air orifice from the blower (Fig. 4).



5. Attach and secure the adapter with pvc pipe to the air orifice with three self-tapping screws provided (Fig. 5).



6. Install and secure air orifice back on the blower with two top and bottom screws (Fig. 6).



7. Install and secure side panel with the PVC pipe protruding through the side panel (Fig. 7).



8. Install and secure half of 3" PVC union on the pipe with plastic pipe cement (Fig. 8).



9. Place and secure screened vent cap on the top of the last vent pipe section with two screws provided.

INSTALLING THE PVC INTAKE VENT KIT ON THE MAX-E-THERM® HEATER

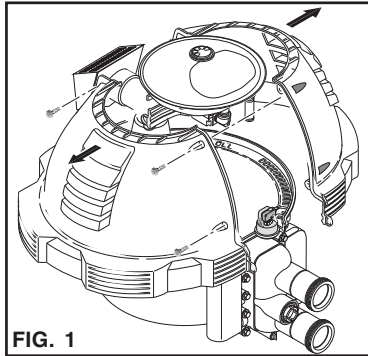
When installing this kit, **basic safety precautions** should always be followed. Read and follow all instructions.

Required installation tools:

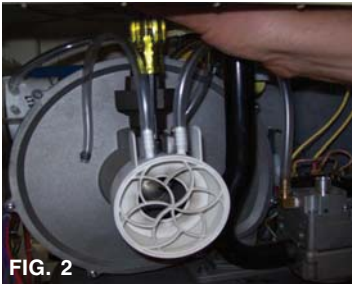
- Powered socket/nut driver
- 1/4" nut driver bit
- 5/16" socket and nut driver
- 3/8" nut driver

To install the PVC Intake Kit on the Max-E-Therm® Heater:

1. Remove the 4 bolts from the heater jackets. Remove the upper jacket halves from the heater (Fig. 1).



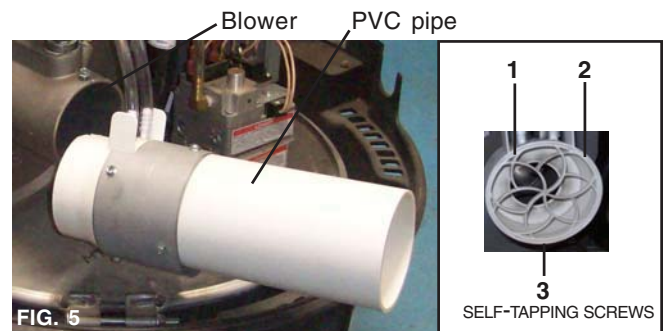
2. Loosen air orifice top and bottom screws on the blower (Fig. 2 and Fig. 3).



4. Remove air orifice from the blower (Fig. 4).



5. Attach and secure the adapter with pvc pipe to the air orifice with three self-tapping screws provided (Fig. 5).
6. Install and secure air orifice back on the blower with two top and bottom screws (Fig 5.).



7. Reinstall the upper jacket halves with the PVC pipe protruding through the side of the jacket (Fig. 6)



8. Install and secure half of 3" PVC union on the pipe with plastic pipe cement (Fig. 7).



9. Place and secure screened vent cap on the top of the last vent pipe section with two screws provided.

Notes



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