



MGE4 Series

Thru-the-Wall Unit User's Information Manual

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life. For assistance or additional information, consult a qualified installer, service agency, or the gas supplier.

WARNING

Do not block any portion of the exterior of the unit. The flow of combustion and ventilation air must not be obstructed from entering the furnace and condenser coil. Do not permit overhanging structures or shrubs to obstruct condenser air discharge, combustion air inlet, or vent outlet. Such obstructions may cause actions which could result in property damage, personal injury, or death.

CAUTION

The unit area must be kept clean and free of combustible materials, gasoline, and other flammable vapors and liquids.

WARNING

Should overheating occur or the gas supply fail to shut off, turn off the manual gas valve to the appliance before shutting off the electrical supply.

Congratulations...

...you have one of the most modern gas heating appliances made. Your unit has been carefully selected to keep you warm and comfortable during the winter months. It will deliver superb performance with only minimal help from you. It will also keep you comfortably cool during hot summer days and nights.

To keep your operating cost low and to eliminate unnecessary service calls, we have provided a few guidelines. These guidelines will help you understand how your appliance operates and how to maintain it so you can get years of safe and dependable service.

Save these instructions for future reference



The E.T.L. Testing Laboratories, Inc. symbol on your appliance is your assurance that your furnace design meets nationally recognized standards for safety and performance.

WARNING

FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death or property damage.

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **What to do if you smell gas:**
 - **Do not try to light any appliance.**
 - **Do not touch any electrical switch; do not use any phone in your building.**
 - **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
 - **If you cannot reach the gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency, or the gas supplier.**

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IMPORTANT SAFETY INFORMATION



ELECTRICAL SHOCK, FIRE, OR EXPLOSION HAZARD

Failure to follow the safety warnings exactly could result in dangerous operation, serious injury, death, or property damage.

Improper servicing could result in dangerous operation, serious injury, death, or property damage.

- Before servicing, disconnect all electrical power to furnace.
- When servicing controls, label all wires prior to disconnecting. Reconnect wires correctly.
- Verify proper operation after servicing.

For your safety, read the following before operating your unit:

1. The area must be kept clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
2. Insulating materials may be combustible. A unit installed in an attic or other insulated space must be kept free and clear of insulating materials. Examine the unit when it is installed and also any time insulation is added.
3. For proper and safe operation, the unit needs air for combustion and ventilation. Do not block or obstruct air openings on the unit, air openings to the area in which the unit is installed, and the spacings around the unit.

4. This unit is equipped with an ignition device which automatically lights the burners. See **OPERATING YOUR UNIT'S HEATING** section for information on lighting and shutting down the unit.
5. Should the gas supply fail to shut off or if overheating occurs, shut off the gas valve to the unit before shutting off the electrical supply.
6. Do not use the unit if any part has been under water. A flood-damaged unit is extremely dangerous. Attempts to use the furnace can result in fire or explosion. A qualified service agency should be contacted to inspect the unit and to replace all gas controls, control system parts, electrical parts that have been wet, or the unit if deemed necessary.
7. Examine the unit installation to determine that:
 - A. All flue gas carrying areas external to the unit, such as the vent, are clear and free of obstructions.
 - B. Return air duct connection(s) is physically sound, sealed to the unit casing, and terminates outside the space containing the unit.
 - C. Physical support of the unit is sound without sagging, cracks, gaps, etc. around the base as to provide a seal between the support and the base.
 - D. There are no obvious signs of deterioration of the unit.
 - E. Burner flames are in good adjustment.
8. It is important that you conduct a physical inspection of the unit at least twice a year. It is also recommended that the unit should be inspected by a qualified service agent at least once per year.

General Information

Your model MGE4 unit has all heating and cooling components self contained in one compact cabinet. It uses outside air for gas combustion and the products of combustion are exhausted by a power vent directly to the outside through the upper right corner of the exterior grille. If your unit is located at ground level or the exterior is on a balcony, you will be able to observe the flue products discharge area. On cold mornings during the heating cycle you may notice a vapor emitting from the discharge area. This is **normal**.

Depending on your local or state building codes, you will have a power disconnect either adjacent to your unit or located at your main electrical panel. Over-current protection will be provided at this point. Have your builder, dealer, or maintenance people show you how to turn the power on and off for your Magic-Pak™ unit.

A field-supplied gas cock (valve) is located in the gas line entering the front of your unit. Manually turn the handle so it is in a parallel position to the gas line. This is the "OPEN" position.

Your unit is equipped with an energy saving, automatic, intermittent ignition control. The burners are automatically ignited at the beginning of each heating cycle and shut off when each cycle is completed. **Your unit does not have a pilot requiring manual lighting.**

For your safety – Read before operating

WARNING

If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury, or loss of life.

Before operating, smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle to the lowest point. Refer to "**What to do if you smell gas**" on page 1 if the odor of gas is present.

Use only your hand to turn the gas control knob; **never use tools**. If the knob will not turn by hand, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

CAUTION

These units are not approved for mobile home applications.

Operating Your Unit's Heating Section

CAUTION

This furnace is equipped with a direct ignition control. Do not attempt to manually light the burners.

Lighting Instructions

1. **STOP!** Read the previous safety information.
2. Turn off electrical power to the appliance.
3. Turn the thermostat to lowest setting.
4. Move the gas valve switch to "ON" position (see Figure 1).
5. Turn on electrical power to the appliance.
6. Set the room thermostat to the desired temperature. If the thermostat "set" temperature is above room temperature after the pre-purge time expires, main burner will light.

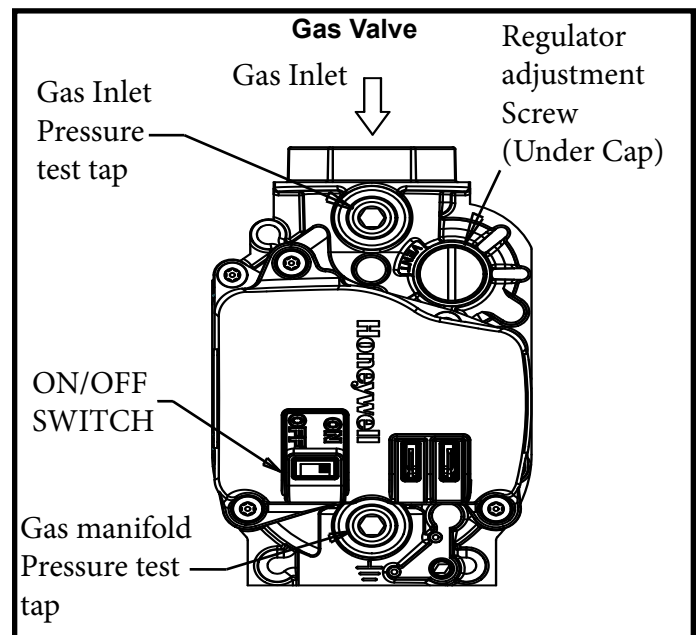


Figure 1

To Shut Down

1. Turn off electrical power to the appliance.
2. Move the gas valve switch to "OFF" position.

Temperature Control

There are many types and styles of thermostats. Yours may look different from the one pictured in Figure 2. However, almost all thermostats perform the same basic functions described in the following section.

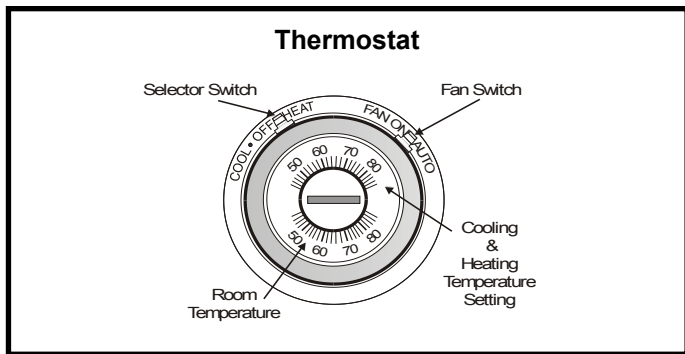


Figure 2

Thermostat Operation

There are two switches located on the thermostat. One switch controls the heating and cooling functions. The other switch is for "FAN" operation, either continuous or automatic. On the thermostat is the temperature range for the heating temperature and the cooling temperature desired.

To put the system into operation, push the switch to either "HEAT" or "COOL" position. After you have chosen the type of operation you desire, move the thermostat dial or lever to select the temperature you would like the system to maintain.

Fan Operation

You may wish to increase your comfort by setting your system for continuous air circulation of the indoor air. The fan switch on the thermostat permits you to do this.

With the switch in the "ON" position, the fan will operate continuously. "AUTO" position gives fan operation only when the unit is in either heating or cooling.

Maintenance Of Your Unit



Always shut off all power to the unit before attempting any of the following maintenance procedures. Failure to do so may result in personal injury.

There are routine maintenance steps you should take to keep your unit operating efficiently. This will assure longer life, lower operating costs, and fewer service calls. Certain service and maintenance procedures require the skill of a trained service person who utilizes special tools and training. Personal injury can result if unqualified personnel attempt those procedures.

Your unit should be inspected and serviced at least once per year by a qualified service technician.

Periodic Inspections

Your Magic-Pak™ is designed to give many years of efficient, satisfactory service. However, the varied air pollutants commonly found in most areas can affect longevity and safety. Chemicals contained in everyday household items such as laundry detergents, cleaning sprays, hair sprays, deodorizers, and other products which produce airborne residuals may have an adverse affect upon the metals used to construct your appliance.

It is important that you periodically inspect your unit. Visually inspect all flue product carrying areas of the furnace, the vent-air intake system, main gas burners, and heat exchanger. You will be able to make this observation by removing the access panel located on the center portion of the cabinet. A screwdriver is needed to remove this panel. A flashlight will be useful. Make one inspection prior to the beginning of the heating season and another half way through the heating season. **Should you observe unusual amounts of rust, flakes, or other deposits, coatings, or corrosion, it is important that you call your authorized dealer at once to obtain a qualified service inspection.**

Owner/User Maintenance

Should your living area be part of an apartment or condominium complex, you are likely to have maintenance personnel who will provide all normal maintenance functions to keep your unit operating at maximum efficiency. If you are responsible for this maintenance, there are several key steps you will need to perform. Your Magic-Pak™ unit will, in most cases, be located behind a moveable opening or closet.

1. **Filter** Remove the access panel on the top of the cabinet. A screwdriver is needed to remove this panel. The filter is immediately behind this panel and can easily be slid out of the side channels which keep it in place in front of the indoor blower. The filter may be vacuumed or preferably washed, then dried and replaced. This is a washable filter that will last many years when properly cared for. When inserting the filter in the side channels, make sure it does not touch the fins of the coil. Your filter should be checked every 4 to 6 weeks.
2. **Indoor Coil** This coil must be clean at all times, especially for efficient cooling performance. Should any lint or dirt collect on the coil fins, you can usually remove this accumulation using an ordinary vacuum cleaner hose with a crevice tool or brush attachment. Be careful, the coil fins are very fragile and are easily damaged.
3. **Condensate Drain** During cooling, the moisture removed from indoors collects on the indoor coil, drops to the drain pan at the bottom of the coil and then drains away through a plastic hose connected to the stub at the front of the drain pan. The condensate then drains to the unit base pan. **Make sure this drain connection is kept open to keep condensate from overflowing the pan.**

REPAIR PARTS

4. **Outdoor Condensing Coil** If your unit is located at ground level where outdoor debris can collect on the outdoor coil, you will need to periodically inspect and clean this coil during the cooling season. Use of a vacuum or hose is recommended. A dirty coil will cause inefficient operation on cooling and it may also contribute to cooling service problems. Be careful, the coil fins are very fragile and are easily damaged.

5. **Blower and Fan Motors** These are direct drive, sealed bearing motors and do not require lubrication or owner maintenance. Access to these motors can be made only when the entire cooling chassis is removed by your authorized service person or dealer.

Since the entire cooling section of your unit is a factory-sealed system, only your authorized service dealer should be called to make any necessary repairs or adjustments.

The following repair parts are available from your local distributor. When ordering parts, include the complete model number and serial number which are printed on the rating plate located on the unit.

Gas Control Group

- | | |
|-----------|---------------|
| Manifold | Orifice |
| Burner | Ignition Wire |
| Gas Valve | |

Heat Exchanger Group

- Heat Exchanger
- Flue Cover

Blower Group

- | | |
|----------------|---------------|
| Blower Housing | Capacitor |
| Blower Motor | Blower Cutoff |
| Blower Wheel | |

Inducer Group

- | | |
|--------------------------|-----------------|
| Inducer Blower and Motor | Pressure switch |
|--------------------------|-----------------|

Electrical Group

- | | |
|-------------------------|------------------|
| Control Box | Ignition Control |
| Limit Switch | Transformer |
| Fan Timer Control Board | Rollout Switch |

NOTES