

# Electric Furnace

## USER'S MANUAL

### Downflow & Upflow Models

For Furnaces Installed in: Manufactured Homes, Modular Homes/Buildings, & Manufactured Buildings

**IMPORTANT!** Please read all information in this manual thoroughly and become familiar with the capabilities and use of your appliance before attempting to operate or maintain this unit.

Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored. **WARNING** indicates a potentially hazardous situation that if not avoided, could result in personal injury or death.

Keep this literature where you have easy access to it in the future. If a problem occurs, check the instructions and follow recommendations given. If these suggestions don't eliminate your problem, call your servicing contractor. Do not attempt to service this unit yourself!

Under no circumstances should the appliance owner attempt to install and/or service this equipment. Some local codes require licensed installation / service personnel for this type of equipment. Improper service, adjustment, or maintenance may cause explosion, fire, electrical shock or other hazardous conditions which may result in personal injury or property damage.



## ⚠ WARNING / AVERTISSEMENT

### ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury 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.

### RISQUE DE CHOC ÉLECTRIQUE, D'INCENDIE OU D'EXPLOSION

Le non-respect des avertissements de sécurité pourrait entraîner un fonctionnement dangereux de l'appareil, des blessures graves, la mort ou des dommages matériels.

Un entreteïn incorrect pourrait entraîner un fonctionnement dangereux de l'appareil, des blessures graves, la mort ou des dommages matériels.

- Couper toute alimentation électrique au générateur d'air chaud avant de prodéder aux travaux d'entreteïn.
- Au moment de l'entreteïn des commandes, étiquetez tous les fils avant de les débrancher. S'assurer de les raccorder correctement.
- S'assurer que l'appareil fonctionne adéquatement après l'entreteïn.

DO NOT DESTROY. PLEASE READ CAREFULLY & KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

## IMPORTANT SAFETY INFORMATION

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### **WARNING:**

**Improper service, adjustment or maintenance of unit may cause fire, electrical shock, or hazardous conditions which may result in personal injury, property damage, or death. Installation or servicing should only be performed by qualified trained personnel thoroughly familiar with this type equipment**

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### **WARNING:**

**Do not store or place flammable or vaporous materials (paint thinners, etc.) in the vicinity of this appliance. Failure to comply may cause fire, explosion, or other hazardous conditions which may result in serious injury, death or property damage.**

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The following list of chemicals should not be used or stored near the furnace:

- Chlorinated cleaners
  - Water softening chemicals
  - De-icing salts or chemicals
  - Household Cleaning Solutions
  - Printing inks, paint removers, varnishes, etc.
  - Cements and glues
  - Antistatic fabric softeners
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### **WARNING:**

**Do not use this furnace if any part has been under water. A flood damaged furnace is extremely dangerous. Attempts to use the furnace can result in fire or explosion. A qualified service agency should be contacted to inspect the furnace and to replace any electrical or control system parts that have been wet or under water.**

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## OPERATING INSTRUCTIONS

**NOTE:** Thermostat styles vary. Some models may not include the AUTO mode and others will have the AUTO in place of the HEAT and COOL. Others may include all three. Please refer to the thermostat manufacturer's User manual for detailed programming instructions.

**NOTE:** Allow at least one hour for the room temperature to stabilize before you make a second adjustment to the thermostat setting. After the desired comfort level is established, make only small adjustments to the thermostat setting to meet changing temperature conditions.

### Cooling Operation

1. Set the thermostat's system mode to COOL or AUTO and change the fan mode to AUTO. See [Figure 1, \(page 3\)](#).
2. Set the temperature selector to the desired temperature level. The outdoor fan, compressor, and blower motor will all cycle on and off to maintain the indoor temperature at the desired cooling level.

### Heating Operation

1. Set the thermostat's system mode to HEAT or AUTO and change the fan mode to AUTO. See [Figure 1](#).
2. Set the temperature selector to the desired temperature level. The compressor, outdoor fan, and blower motor will cycle on and off to maintain the indoor temperature at the desired heating level.

### Operating the Indoor Blower Continuously

The continuous indoor blower operation is typically used to circulate the indoor air to equalize a temperature unbalance due to a sun load, cooking, or fireplace operation.

Set the thermostat fan mode to ON ([Figure 1](#)). The indoor blower starts immediately, and will run continually until the fan mode is reset to AUTO.

The continuous indoor blower operation can be obtained with the thermostat system mode set in any position, including OFF.

### Turning the Heater OFF

Change the thermostat's system mode to OFF and the fan mode to AUTO. See [Figure 1](#). **NOTE:** The system will not operate, regardless of the temperature selector setting.

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### **CAUTION:**

**For optional A/C or H/P systems, always wait at least five minutes after the system shuts off before restarting the system.**

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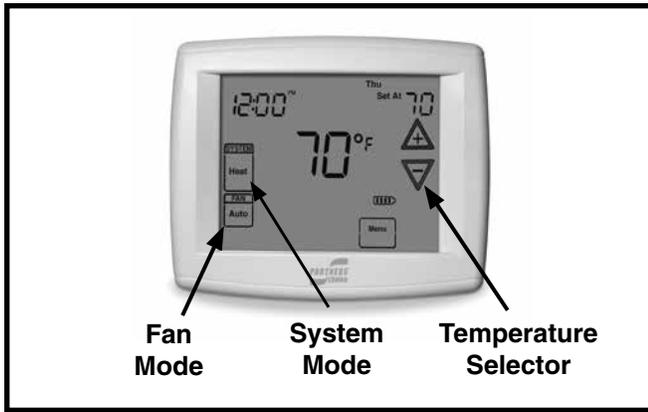


Figure 1. Digital Thermostat

## UNIT MAINTENANCE

### **⚠ WARNING:**

**Shut off all electrical power to the unit before performing any maintenance or service on the system. Failure to comply may result in personal injury or death.**

### **⚠ CAUTION:**

**There are No user serviceable parts inside the control panel. DO NOT OPEN.**

**NOTE:** All servicing of this heating appliance other than the normal maintenance described in this section must be done by authorized trained service personnel. Do not attempt any servicing which requires opening of the control panels.

- Proper maintenance is most important to achieve the best performance from the appliance and should be performed frequently at the beginning of each heating season.
- Keep the area surrounding the unit clean. Keep the unit clear of obstructions.

## Furnace Filter

### **⚠ WARNING:**

**Never operate the furnace without a filter in place. Accumulating dust in the return air can build up on internal components, resulting in loss of efficiency, equipment damage, and possible fire.**

- This electric furnace is supplied with a single air filter when shipped from the factory. It is recommended that the filter be cleaned or replaced monthly. Newly built or recently renovated homes may require more frequent changing until the construction dust has minimized. Inspect filters frequently and replace when necessary with filter of same dimensional size
- Filters designed to remove smaller particles such as pollen, may require additional maintenance.

### Coil Filters

- If a cooling coil is installed on your unit, the furnace filter should not be used.
- If wire mesh coil filters are being used, they must be removed, washed and allowed to dry monthly. Once dry they must be re-installed to their original position.
- If a coil box is being used, the disposable filters should be replaced monthly.

### Blower Compartment

Dirt and lint can create excessive loads on the motor resulting in higher than normal operating temperatures and shortened service life. Wipe the interior of the furnace cabinet clean. Clean all lint and dust from around the furnace. It is recommended that the blower compartment be cleaned of dirt or lint that may have accumulated in the compartment or on the blower and motor as part of regular maintenance.

## TROUBLESHOOTING

If the unit fails to operate, check the following:

- Check the thermostat setting. Make sure the system mode and temperature settings are correct.
- Check the electrical panel for tripped circuit breakers.
- Check the filters for dust accumulation.
- Check the outdoor unit and make sure it is clean and not covered with grass or leaves.
- If the items above don't resolve your problems, then call your nearest service technician. Please specify the complete model and serial numbers shown on the furnace data label for all warranty service and when ordering replacement parts or optional equipment. Refer to the replacement parts list provided by the manufacturer for part numbers.

