



## Stainless Steel Condensing Boiler

# USERS' INFORMATION MANUAL

**TO THE BOILER OWNER:** READ THIS MANUAL IMMEDIATELY AFTER THIS BOILER IS PLACED IN SERVICE AND RETAIN IT FOR FUTURE REFERENCE.



### 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.

-Do not store 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 your gas supplier, call the fire department.

-Installation and service must be performed by a qualified installer, service agency or the gas supplier.



### AVERTISSEMENT

Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

- Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.

**QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:**

- Ne pas tenter d'allumer d'appareils.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones dans le bâtiment où vous vous trouvez.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.

L'installation et D'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

The following terms are used throughout this manual to bring attention to the presence of various risk levels



## **DANGER**

Indicates an imminently hazardous situation which, if not avoided, will result in death, serious injury or substantial property damage.



## **WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death, serious injury or substantial property damage.



## **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury or property damage.

## **NOTICE**

Indicates special instructions on installation, operation, or maintenance which are important but not related to personal injury hazards.

### **I. General Information**

1. This manual covers the proper care and use of the Phantom Condensing High Efficiency Gas Fired Boiler.
2. Instructions to safely operate and shut down this boiler are shown in Figure 1 of this manual, as well as on a label affixed to the boiler.



## **DANGER**

There are no user serviceable parts on this boiler. Attempts to service this boiler by someone other than a qualified gas service technician could void the warranty, cause property damage, personal injury or loss of life.



## **CAUTION**

- Do not use this boiler if any part has been under water. Immediately call a qualified service technician to inspect the boiler and to replace any part of the control system and any gas control which has been under water.
- Should overheating occur or the gas supply fail to shut off, do not turn off or disconnect the electrical supply to the pump. Instead shut off the gas supply at a location external to the appliance. En cas de surchauffe ou si l'admission de gaz ne peut être coupée, ne pas couper ni débrancher l'alimentation électrique de la pompe. Fermer plutôt le robinet d'admission de gaz à l'extérieur de l'appareil.
- This boiler has parts containing refractory ceramic fibers (RCF). See the safety information on the back of this manual if this boiler must be serviced or repaired.
- Like all central heating appliances, this boiler is equipped with safety devices, which could cause it to shutdown, requiring service to restore normal operation. Where such a shutdown could result in damage from low temperatures (such as frozen pipes), do not leave the heating system unattended during cold weather unless alarms or other safeguards are in place to prevent damage.

3. Phantom boilers use an electronic means built into the ignition system to extinguish the burner in the event that flames exit the combustion chamber. If the boiler fails to fire, call a qualified gas service technician to diagnose and correct the problem.
4. Phantom boilers are equipped with a safety feature which will shut down the burner in the event that there is a blockage in the vent system. In the event that the boiler fails to function, and the boiler is vented through an outside wall accessible from the ground, inspect the vent terminal on the outside wall for a blockage such as a bee's nest or ice. If a blockage is found, the burner should ignite approximately 30 seconds after the blockage is removed. If no blockage is found, or if the terminal is inaccessible from the ground, the problem must be diagnosed and corrected by a qualified gas service technician.



## WARNING

Asphyxiation Hazard. Explosion Hazard. Fire Hazard. Failure of the boiler to fire upon a call for heat is usually the result of a potential safety issue (such as a blocked vent) that has been detected by the control system. Call a qualified gas service technician to diagnose and correct the problem.

## II. Maintenance

### 1. On a continuous basis:

- Keep the area around the boiler free from combustible materials, gasoline, and other flammable vapors and liquids.
- Keep the area around the combustion air inlet terminal and the area around the boiler free from contaminants, including all sources of hydrocarbons such as bleaches, fabric softeners, chemicals, sprays, cleaners, paints, paint removers, refrigerants, and cat boxes. Traces of these chemicals can be drawn into the boiler, causing severe corrosion damage to the boiler and/or objectionable odors.
- Keep the boiler room ventilation openings open and unobstructed.
- Do not expose the boiler to large amounts of dust such as that generated by drywall construction or woodworking.

### 2. On a monthly basis:

- Inspect outdoor vent and combustion air intake terminals for obstructions, damage due to impact or other deterioration.
- Inspect vent and combustion air exterior wall penetrations to be sure they are weather tight.
- Inspect all vent and combustion air intake piping for cracks, loose joints, condensate leakage, sags in horizontal runs of pipe, corrosion, loose supports or other deterioration.
- Inspect vent terminals, exterior of vent system and boiler exterior for carbon (soot).
- Inspect water, gas and condensate drain lines for leaks.
- Lift off front door and inspect visible controls, wiring and sheet metal components for deterioration.



## WARNING

If any of the conditions listed above are found, follow instructions "TO TURN OFF GAS TO APPLIANCE" in Figure 1 and contact a qualified gas service technician to correct the problem before placing the boiler back in service. Failure to correct these conditions could result in property damage, personal injury or loss of life.



## WARNING

Carbon ("soot") in or near the vent system or boiler is an indication of a potential carbon monoxide hazard. If carbon is found, immediately follow instructions "TO TURN OFF GAS TO APPLIANCE" in Figure 1 and contact a qualified gas service technician to correct the problem before placing the boiler back in service.

3. **On an annual basis:** Have a qualified gas service technician perform the inspection and maintenance described in Part XIII of the Phantom Installation and Operating instructions.

## NOTICE

This boiler has a heat exchanger made from a special stainless steel alloy which can be severely damaged by frequent additions of water or by the addition of boiler water additives which are not designed for use with stainless steel boilers. If it is necessary to add water to the boiler, have a service technician check the system for leaks. Do not add any chemicals to the boiler not listed in Section XI of the Phantom Installation and Operating Manual. Warranty is void if the service and maintenance procedure shown in Section XIII of the Phantom Installation and Operating Manual is not followed.

Figure 1: Lighting and Operating Instructions

**FOR YOUR SAFETY READ BEFORE OPERATING/POUR VOTRE SECURITE LISEZ AVANT DE METTRE EN MARCHÉ**

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

**AVERTISSEMENT:** **Quiconque ne respecte pas à la lettre les instructions dans la présente notice risque de déclencher un incendie ou une explosion entraînant des dommages, des blessures ou la mort.**

- A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
- B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

**WHAT TO DO IF YOU SMELL GAS:**

- Do not try to light any appliance.
- Do not touch any electric 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 your gas supplier, call the fire department.

- C. 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.
- D. 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.

- A. Cet appareil ne comporte pas de veilleuse. Il est muni d'un dispositif d'allumage qui allume automatiquement le brûleur. Ne tentez pas d'allumer le brûleur manuellement.
- B. AVANT DE FAIRE FONCTIONNER, reniflez tout autour de l'appareil pour déceler une odeur de gaz. Reniflez près du plancher, car certains gaz sont plus lourds que l'air et peuvent s'accumuler au niveau du sol.

**QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:**

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur ; ne pas vous servir des téléphones se trouvant dans le bâtiment.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur, appelez le service des incendies.

- C. Ne poussez ou tournez la manette d'admission du gaz qu'à la main ; ne jamais utiliser d'outil. Si la manette reste coincée, ne pas tenter de la réparer ; appelez un technicien qualifié. Le fait de forcer la manette ou de la réparer peut déclencher une explosion ou un incendie.
- D. N'utilisez pas cet appareil s'il a été plongé dans l'eau, même partiellement. Faites inspecter l'appareil par un technicien qualifié et remplacez toute partie du système de contrôle et toute commande qui ont été plongés dans l'eau.

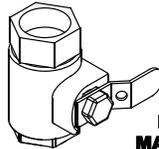
**OPERATING INSTRUCTIONS/ INSTRUCTIONS DE FONCTIONNEMENT**

1. STOP! Read safety information above on this label.
2. Set the thermostat to lowest setting.
3. Turn off all electric power to the appliance.
4. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
5. Turn the external boiler manual gas valve handle clockwise ↻ to close the gas supply.
6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
7. Turn the external boiler manual gas valve handle counterclockwise ↺ to open the gas supply.
8. Turn on all electric power to the appliance.
9. Set the thermostat to the desired setting.
10. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

1. ARRÊTEZ ! Lisez les instructions de sécurité sur la portion supérieure cette étiquette.
2. Réglez le thermostat à la température la plus basse.
3. Coupez l'alimentation électrique de l'appareil.
4. Cet appareil est équipé de l' dispositif d'allumage qui automobile allume maticallyle brûleur. Ne tentez pas d'allumer le brûleur manuellement.
5. Tourner la chaudière externe manuelle poignée ↻ en clapet à gaz dans le sens des aiguilles d'une montre pour fermer l'offre de gaz.
6. Attendre cinq (5) minutes pour laisser échapper tout le gaz. Reniflez tout autour de l'appareil, y compris près du plancher, pour déceler une odeur de gaz. Si vous seutez une odeur de gaz, ARRÊTEZ ! Passez à l'étape B des instructions de sécurité sur la portion supérieure de cette étiquette. S'il n'y a pas d'odeur de gaz, passez à l'étape suivante.
7. Tourner la chaudière externe manuelle compteur de poignée ↻ en clapet à gaz ouvrir dans le sens des aiguilles d'une montre le gaz approvisionnement.
8. Mettez l'appareil sous tension.
9. Réglez le thermostat à la température désirée.
10. Si l'appareil ne se met pas en marche, suivez les instructions intitulées « Comment couper l'admission de gaz de l'appareil » et appelez un technicien qualifié ou le fournisseur de gaz.

**OPEN/OUVERT**

**CLOSED/FERMÉ**



**EXTERNAL BOILER  
MANUAL GAS VALVE  
LA CHAUDIÈRE EXTERNE  
MANUELLE DE CLAPET À GAZ**

**TO TURN OFF GAS TO APPLIANCE/ COMMENT COUPER L'ADMISSION DE GAZ DE L'APPAREIL**

1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Turn the external boiler manual gas valve handle clockwise ↻ to close gas supply.

1. Réglez le thermostat à la température la plus basse.
2. Coupez l'alimentation électrique de l'appareil s'il faut procéder à l'entretien.
3. Tourner la chaudière externe manuelle poignée ↻ en clapet à gaz dans le sens des aiguilles d'une montre pour fermer l'offre de gaz.

## **Important Product Safety Information** **Refractory Ceramic Fiber Product**

### **Warning:**

This boiler may include parts that contain refractory ceramic fibers (RCF). RCF has been classified as a possible human carcinogen. When exposed to temperatures about 1805°F, such as during direct flame contact, RCF changes into crystalline silica, a known carcinogen. When disturbed as a result of servicing or repair, these substances become airborne and, if inhaled, may be hazardous to your health.

### **AVOID Breathing Fiber Particulates and Dust**

### **Precautionary Measures:**

Do not remove or replace RCF parts or attempt any service or repair work involving RCF without wearing the following protective gear:

1. A National Institute for Occupational Safety and Health (NIOSH) approved respirator
  2. Long sleeved, loose fitting clothing
  3. Gloves
  4. Eye Protection
- Take steps to assure adequate ventilation.
  - Wash all exposed body areas gently with soap and water after contact.
  - Wash work clothes separately from other laundry and rinse washing machine after use to avoid contaminating other clothes.
  - Discard used RCF components by sealing in an airtight plastic bag. RCF and crystalline silica are not classified as hazardous wastes in the United States and Canada.

### **First Aid Procedures:**

- If contact with eyes: Flush with water for at least 15 minutes. Seek immediate medical attention if irritation persists.
- If contact with skin: Wash affected area gently with soap and water. Seek immediate medical attention if irritation persists.
- If breathing difficulty develops: Leave the area and move to a location with clean fresh air. Seek immediate medical attention if breathing difficulties persist.
- Ingestion: Do not induce vomiting. Drink plenty of water. Seek immediate medical attention.



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