Dyna-Glo™ Delux
Propane Construction Heater

Description

Dyna-Glo™ Delux Model RMC-FA300DGD heaters are 300,000 BTU/Hr construction heaters. This heater uses propane gas for combustion, and electricity to run the fan. It is primarily intended for temporary heating of well-ventilated buildings under construction, alteration or repair. This heater should be utilized in sheltered, well-ventilated areas, but never in occupied dwellings.

Specifications

Electrical Specifications

<table>
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<tr>
<th>Model</th>
<th>Electrical Input</th>
<th>Amperage</th>
</tr>
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<tbody>
<tr>
<td>RMC-FA300DGD</td>
<td>120 V, 60 Hz</td>
<td>0.65</td>
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General Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Rating BTU/Hr</th>
<th>Fuel</th>
<th>Maximum Fuel Consumption</th>
<th>Ignition</th>
<th>Regulator Outlet Pressure</th>
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<tr>
<td>RMC-FA300DGD</td>
<td>300,000</td>
<td>Propane Vapor Only</td>
<td>13.9 Lbs/Hr</td>
<td>Direct Spark, Interrupted</td>
<td>7-10 PSIG</td>
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<table>
<thead>
<tr>
<th>Model</th>
<th>Hot Air Output Approx. (CFM)</th>
<th>Motor</th>
<th>Minimum Supply Pressure to Regulator</th>
<th>Maximum Supply Pressure to Regulator</th>
<th>Size L x W x H (Inches)</th>
<th>Weight (pounds)</th>
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<tbody>
<tr>
<td>RMC-FA300DGD</td>
<td>1800</td>
<td>0.085 HP, 1,720 RPM</td>
<td>25 PSIG (For purposes of input adjustment)</td>
<td>Max Bottle Pressure</td>
<td>33.7 x 12.6 x 18.5</td>
<td>33.9 (Heater)</td>
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</table>

Table of Contents

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<thead>
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<th>Table of Contents</th>
<th>Page</th>
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<td>Specifications</td>
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<tr>
<td>Unpacking</td>
<td>1</td>
</tr>
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<td>General Safety Information</td>
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<td>and Parts List</td>
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<td>7-8</td>
</tr>
<tr>
<td>Warranty</td>
<td>9-10</td>
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</table>

Unpacking

1. Unpack all materials used to protect the heater inside of carton. Retain plastic caps attached to exposed fittings for use during storage.

2. Remove heater, accessories and all hardware from carton.

3. Inspect all items for damage that may have occurred during shipment.

General Safety Information

Make certain you read and understand all warnings. Keep this instruction manual for future reference, and use it as a guide to safe and proper operation of the heater.

Various precautions appear throughout this manual. Please review and pay close attention to them. Below is an explanation of the various levels of caution required while operation this heater.

**WARNING** Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

**CAUTION** Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury.

**IMPORTANT:** Every possible situation that may involve a hazard cannot be anticipated. The warnings in this manual and on the heater itself cannot be all inclusive. If an operating technique or procedure that is not specifically recommended is used, you must assure that it is safe for you and anyone else within the heated space. You must be sure that the heater will not be damaged or made unsafe by your handling of the maintenance or operation of the heater.

**Consumer:** Retain this manual for future reference.
Dyna-Glo™
Propane Construction Heater

General Safety Information (Continued)

⚠️ WARNING ⚠️ GENERAL HAZARD WARNING: Failure to comply with the precautions and instructions provided with this heater can result in death, serious bodily injury, and property loss, or damage from hazards of fire, explosion, burn, asphyxiation, carbon monoxide poisoning, and/or electrical shock. Only persons who can understand and follow these instructions should use or service this heater.

⚠️ WARNING ⚠️ FIRE, BURN, INHALATION, AND EXPLOSION HAZARD: Keep solid combustibles such as building materials, paper, or cardboard, at a safe distance away from heater as recommended by the instructions. Never use the heater in spaces which do or may contain volatile or airborne combustibles or products such as gasoline, solvents, paint thinner, dust particles, or unknown chemicals.

⚠️ WARNING ⚠️ Not for home or recreational vehicle use.

California Proposition 65 Warning: Fuels used in gas or oil fired appliances and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. This product contains chemicals, including lead and lead compounds, known to the state of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

- The heater is designed and approved for use as a construction heater in accordance with CSA 2.14b-2009, ANSI/NFPA 58 and the Natural Gas and Propane Installation Code CSA B149.1. The heater is designed and approved for use as a construction heater in accordance with Standard CSA 2.14b-2009, ANSI 283.7b-2009.
- Use only in well-vented areas. Before using heater, provide at least a three-square-foot opening of fresh, outside air for each 100,000 BTU/Hr of rating.
- Keep appliance area clear and free from combustible materials, gasoline, paint thinner, and other flammable vapors and liquids. Do not use heater in areas with high dust content.
- Keep heater away from strong drafts, water spray, rain, or dripping water.
- Install and use heater with care.

Follow all local ordinances and codes. In the absence of local ordinances and codes, refer to ANSI/NFPA 58. This instructs on the safe storage and handling of propane gases.
- Check heater for damage before each use. Do not use a damaged heater.
- Use only propane gas set up for vapor withdrawal.
- The electrical connections and grounding of the heater shall follow the National Electric Code, ANSI/NFPA 70.
- Keep propane tank(s) below 100°F.
- Do not use heater below ground level. Propane gas is heavier than air. If a leak occurs, propane gas will sink to the lowest possible level.
- Use only the electrical voltage and frequency specified on model plate.
- Electrical grounding instructions - This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.
- Use only a three-prong, grounded extension cord.
- Use only the hose and factory regulator provided with the heater.
- Inspect hose before each use of heater. If highly worn or cut, replace before using heater. Use the replacement hose assembly specified in this manual.
- The heater, other than a heater with integral propane gas container, must be located at least 6 feet (in Canada, distance must be 10 feet) from any propane gas container. Do not point heater at propane tank(s) within 20 feet.
General Safety Information (Continued)

Minimum heater clearances from combustibles:
- Outlet: 8 Ft.
- Sides: 2 Ft.
- Top: 6 Ft.
- Rear: 2 Ft.
- Locate heater on stable and level surface if heater is hot or running.
- Keep children and animals away from heater.
- Turn off propane supply and unplug heater when not in use.
- When used with optional thermostat, heater may start anytime.
- Never block air inlet (rear) or air outlet (front) of heater.
- Never move, handle, or service a hot, operating, or plugged-in heater.
- Do not alter heater. Keep heater in its original state.
- Do not use heater if altered.
- Never attach ductwork to front or rear of heater.
- Use only original replacement parts. This heater must use design-specific parts. Do not substitute or use generic parts. Improper replacement parts could cause serious or fatal injuries.
- Do not adjust regulator below 7 PSIG or above 10 PSIG.

Theory of Operation

FUEL SYSTEM
The hose/regulator assembly runs from the propane supply to the heater itself. After the gas runs through the hose and regulator, it passes through the solenoid valve and out the nozzle into the combustion chamber.

AIR SYSTEM
The internal motor turns the fan, which pushes air around and through the combustion chamber. Here the air is heated and provides a constant stream of warmth.

IGNITION SYSTEM
The spark module sends voltage to the ignitor. The ignitor ignites the fuel and air mixture.

SAFETY CONTROL SYSTEM
This system shuts the heater down if the flame is extinguished. The fan and motor will continue to operate, but there will not be any heat.

PROPANE SUPPLY
All propane gas and tanks are to be provided by the user. This heater should only be used with a tank that has a vapor withdrawal system. Refer to the Standard of Storage and Handling of Liquefied Petroleum Gas, ANSI/NFPA 58, Chapter 5. Your local fire department or library will have this information.

Two factors will dictate how much propane is used from each tank:
1. The amount of gas in each tank.
2. The surrounding air temperature at each tank.

The chart below shows how many tanks should be used at a given temperature. This heater should not be operated with a tank smaller than 100 pounds.

<table>
<thead>
<tr>
<th>Average Temperature (°F) at Tank Location</th>
<th>Number of Tanks</th>
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<tbody>
<tr>
<td>40</td>
<td>3</td>
</tr>
<tr>
<td>32</td>
<td>Use larger tank</td>
</tr>
<tr>
<td>20</td>
<td>Use larger tank</td>
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<tr>
<td>10</td>
<td>Use larger tank</td>
</tr>
<tr>
<td>0</td>
<td>Use larger tank</td>
</tr>
<tr>
<td>-10</td>
<td>Use larger tank</td>
</tr>
<tr>
<td>-20</td>
<td>Use larger tank</td>
</tr>
</tbody>
</table>

As the temperature drops, less gas is vaporized, so a larger tank may be necessary in very cold weather. Never operate this heater with a tank smaller than 100 pounds. Your local propane dealer can help you select the proper tank size and configuration.
Dyna-Glo™
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Installation

> WARNING Review and understand all of the warnings in the Safety Information Section on pages 1–3. They are required to operate this heater safely. Follow all local and state codes when operating this heater.

> WARNING After installing all gas piping, and making the proper connections, be sure to check for leaks. Apply a 50/50 mixture of dish soap and water to all connections. Bubbles forming are evidence of a leak. Be sure to correct all leaks at once!

1. Provide propane supply system as outlined above.
2. Connect POL fitting on hose/regulator assembly to propane tank(s) by turning the fitting COUNTERCLOCKWISE into the threads on the valve on top of the tank. Finish by tightening firmly, using 7/8" wrench.

IMPORTANT: To protect the regulator from weather damage, tighten the fitting with the black adjustment knob pointing down.

3. Connect female end of hose to the inlet connector of the heater, and tighten firmly with a wrench.

4. Open supply valve on propane tank(s) SLOWLY.

NOTE: If this valve is not opened slowly, the excess flow check valve on the tank will interrupt the gas flow. If this happens, close the supply valve and reopen slowly.
5. Adjust the regulator to between 7 and 10 PSIG.

> WARNING Do not adjust the regulator above 10 PSIG or below 7 PSIG, or the heater may not operate properly.

6. Check all connections for leaks.

> WARNING Never use an open flame to check for leaks. Apply a 50/50 solution of liquid dish soap and water to check all connections. Correct all leaks immediately.

7. Close propane supply valve.

Ventilation

> WARNING Always follow the minimum fresh air ventilation requirements. If these guidelines are not followed, carbon monoxide poisoning can occur. Always provide proper amounts of fresh air before operating this heater.

Provide at least three square feet of fresh, outside air for each 100,000 BTU/Hr of rating. This heater requires a fresh air opening of at least 11.25 square feet. Provide extra fresh air if more heaters are being used.

Operation

> WARNING Review and understand all of the warnings in the Safety Information Section, on pages 1–3. They are required to operate this heater safely. Follow all local and state codes when operating this heater.

TO START HEATER

1. Follow all safety, installation and ventilation instructions in this manual.
2. Position the heater on a stable and level surface, and be sure that no drafts blow into the inlet or outlet of the heater.
3. Plug the power cord of the heater into a three hole grounded extension cord. Be sure that the extension cord is at least 6 feet long, and is UL listed.

EXTENSION CORD SIZE REQUIREMENT

• Up to 50 feet long, use 18 AWG rated cord.
• 51 to 100 feet long, use 16 AWG rated cord.
• 101 to 200 feet long, use 14 AWG rated cord.

4. Plug extension cord into a 120 volt/60 hertz, three hole grounded outlet.
5. Open supply valve on propane tank(s) SLOWLY.

NOTE: If this valve is not opened slowly, the excess flow check valve on the tank will interrupt the gas flow. If this happens, close the supply valve and reopen slowly.
6. Adjust the regulator to between 7 and 10 PSIG.

NOTE: The higher regulator setting will enable the heater to produce more heat.
Operation (Continued)

**WARNING** Do not adjust the regulator above 10 PSIG or below 7 PSIG, or the heater may not operate properly.

7. Turn on/off switch to the ON position. Heater will start within twenty seconds.

**NOTE:** If the heater does not start following this procedure, turn on/off switch to OFF position and wait 5 minutes. This will allow the safety control to reset, and you can try to light the heater once again.

**TO SHUT DOWN HEATER**

1. Tightly close control valve on propane tank(s).
2. Give the heater a few seconds to burn the gas still left in the hose.
3. Turn on/off switch to the OFF position.
4. Unplug extension cord from power source.

**TO RESTART HEATER**

**NOTE:** If the safety control stops the flow of gas to the heater, the motor will continue to run. To restart the heater:

1. Turn on/off switch to the OFF position.
2. Wait five minutes, then turn switch to the ON position.

If heater does not restart:

- Check all control valves to assure that they are open.
- Check the fuel level in the propane tanks. If the level is too low, replace the tank with a full one.

If heater still does not restart, contact your nearest Service Center.

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**Maintenance**

**WARNING** Do not attempt to service the heater while it is hot, operating or plugged in. Severe burns or electrical shock can occur.

1. Be sure to inspect the heater before each use. Check for leaks using the method described on Page 4. Repair any leaks immediately.
2. Always keep heater clean. Clean the heater annually, or as often as needed to remove any dust or debris. When the heater becomes dirty, wipe it down with a damp cloth.
3. Keep the inside of the heater free from foreign objects and combustibles.
4. Have the heater inspected annually by a qualified service person.
5. Keep inside of heater free of foreign objects and combustible materials.

**SERVICE PROCEDURES**

**WARNING** Never service heater while hot, operating or connected to the gas supply. Severe burns or electrical shock may occur.

**REMOVING PROTECTIVE COVER**

1. Remove base lower at the bottom of the heater.
2. Remove fan guard.

**FAN**

**IMPORTANT:** Always remove the fan from the motor shaft before removing the motor assembly from the heater. This will help prevent damage to the fan.

1. Remove base lower.
2. Remove fan guard.
3. Remove base.
4. Disconnect lead wires attached to the motor.
5. Remove motor assembly.
6. Remove fan setscrew using a 1/8” Allen wrench (see Figure 6).

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**Figure 5 – Protective Cover Removal**

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**Figure 6 – Fan Motor Shaft and Setscrew Location**

7. Using a soft cloth moistened with kerosene or a cleaning solvent, carefully clean the fan blades making sure not to bend them.
8. Dry fan with clean cloth.
9. Making sure that the setscrew lines up with the flat spot on the motor shaft, replace fan as shown in Figure 7. Tighten setscrew firmly (be careful not to overtighten).
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Maintenance (Continued)

IGNITOR
The only maintenance necessary for the ignitor is to be sure that the gap between the electrodes is kept between .10” and .15”. The ignitor is accessible through the combustion chamber.

Storage
Always disconnect the heater from the propane tanks when not in use.

1. Always store propane tanks in accordance with Chapter 5 of the Standard for storage and handling of Liquefied Petroleum Gases, ANSI/NFPA 58. Follow all local codes.
2. Replace the plastic caps over the fittings that were installed when you originally unpacked your heater.
3. Store the heater in a safe, clean and dry location. Do not store the hose/regulator assembly inside the combustion chamber of the heater.
4. When removing the heater from storage, always check inside of the heater for any foreign objects left by spiders or small animals. Keep the inside of the heater clean from foreign objects and combustibles.

Wiring Diagram

If any original wiring as supplied with the heater must be replaced, it must be replaced with type AWG105°C wire or its equivalent except as indicated (∗Type SF2-200, ∗∗SGI-250°C)
For Repair Parts, call 1-877-447-4768

Please provide following information:
- Model number
- Serial number (if any)
- Part description and number as shown in parts list

Figure 9 – Repair Parts Illustration for Propane Construction Heater
## Repair Parts List for Propane Construction Heater

<table>
<thead>
<tr>
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## Troubleshooting Chart

<table>
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<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Corrective Action</th>
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<tbody>
<tr>
<td>Fan does not turn when electrical connection is made</td>
<td>1. No electric power to heater</td>
<td>1. Check current to electric outlet. If voltage is correct, check power cord and extension cord for cuts and breaks</td>
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<tr>
<td></td>
<td>2. Fan blade contacts inside of heater housing</td>
<td>2. Be sure that housing is not damaged. Make sure there are no obstructions to the fan</td>
</tr>
<tr>
<td></td>
<td>3. Fan blade(s) bent</td>
<td>3. Straighten blade(s) to match others</td>
</tr>
<tr>
<td></td>
<td>4. Fan motor defective</td>
<td>4. Replace motor</td>
</tr>
<tr>
<td>Heater will not fire</td>
<td>1. No spark at igniter</td>
<td>1. Check igniter wire. Reattach or tighten if loose. Check spark module. Replace if necessary. Check all electrical components</td>
</tr>
<tr>
<td></td>
<td>2. Improper spark gap</td>
<td>2. Set gap to 0.08”</td>
</tr>
<tr>
<td></td>
<td>3. Bad electrode</td>
<td>3. Replace spark plug</td>
</tr>
<tr>
<td>Heater quits while running</td>
<td>1. Internal temperature too high causing limit switch to shut down operation</td>
<td>1. If the heater’s output is restricted, internal temperature becomes too high. Move heater away from any obstructions</td>
</tr>
<tr>
<td></td>
<td>2. Damaged control valve</td>
<td>2. Replace control valve</td>
</tr>
<tr>
<td></td>
<td>3. Dust or debris build-up inside of heater</td>
<td>3. Clean inside of heater</td>
</tr>
</tbody>
</table>

**Always be sure to follow proper maintenance procedures, by cleaning the heater once per month during regular usage, and check spark gap at least once per season.**
LIMITED WARRANTY:
This limited warranty is extended to the original retail purchaser of this Forced Air/Convection/Radiant Heater and warrants against any defect in materials and workmanship for a period of one (1) year from the date of retail sale. GHP Group, Inc., at its option, will either provide replacement parts or replace or repair the unit, when properly returned to the retailer where purchased or one of our service centers as directed by GHP Group, Inc., within one (1) year of retail purchase. (Shipping costs, labour costs, etc. are the responsibility of the purchaser.)

DUTIES OF THE OWNER:
This heating appliance must be operated in accordance with the written instructions furnished with this heater. This warranty shall not excuse the owner from properly maintaining this heater in accordance with the written instructions furnished with this heater. A bill of sale, canceled check or payment record must be kept to verify purchase date and establish warranty period. Original carton should be kept in case of warranty return of unit.

WHAT IS NOT COVERED:
1. Damage resulting from use of improper fuel.
2. Damage caused by misuse or use contrary to the owners manual and safety guidelines.
3. Damage caused by a lack of normal maintenance.
4. Fuses
5. Use of non-standard parts or accessories.
6. Damage caused in transit. Freight charges on warranty parts or heaters to and from the factory shall be the responsibility of the owner.

This warranty does not imply or assume any responsibility for consequential damages that may result from the use, misuse, or the lack of routine maintenance of this heating appliance. A cleaning fee and the cost of parts may be charged for appliance failures resulting from lack of maintenance. This warranty does not cover claims which do not involve defective workmanship or materials. FAILURE TO PERFORM GENERAL MAINTENANCE (INCLUDING CLEANING) WILL VOID THIS WARRANTY.

GENERAL MAINTENANCE (INCLUDING CLEANING) WILL VOID THIS WARRANTY.

THIS LIMITED WARRANTY IS GIVEN TO THE PURCHASER IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THE REMEDY PROVIDED IN THIS WARRANTY IS EXCLUSIVE AND IS GRANTED IN LIEU OF ALL OTHER REMEDIES. IN NO EVENT WILL GHP GROUP, INC. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

CLAIMS HANDLED AS FOLLOWS:
1. Contact your retailer and explain the problem.
2. If the retailer is unable to resolve the problem, contact our Customer Service Dept. detailing the heater model, the problem, and proof of date of purchase.
3. A representative will contact you. DO NOT RETURN THE HEATER TO GHP GROUP, INC. unless instructed by our Representative. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

TO REGISTER THE WARRANTY ON YOUR HEATER, PLEASE FILL OUT THIS CARD COMPLETELY AND MAIL WITHIN 14 DAYS FROM DATE OF PURCHASE OR REGISTER ON-LINE AT www.ghpgroupinc.com

NAME: ______________________________________ PHONE: ( ) _____________ EMAIL: __________________________
ADDRESS: ____________________________ CITY: ______________________ STATE: ______ ZIP: __________
MODEL: __________________ SERIAL #: ___________________ DATE PURCHASED: ___________
DEALER PURCHASED FROM: __________________________________________ TYPE OF STORE: __________________
CITY & STATE WHERE PURCHASED: __________________ PRICE PAID: __________

Please take a minute to give us your answers to the following questions.
All responses are used solely for market research and are held in strict confidence.

Who primarily decided this purchase? ☐ Male ☐ Female ☐ 18-24 ☐ 25-39 ☐ 40-59 ☐ 60 and over
Purpose of Purchase?
Do you own any other portable heaters? ☐ Yes ☐ No If yes, type ___________________ brand ___________________ other
How do you intend to use your new heater? ☐ Construction Site ☐ Farm ☐ Warehouse/Commercial ☐ Garage/Outbuilding ☐ Other
How did you become aware of this heater? ☐ In-Store Display ☐ Newspaper Ad ☐ Magazine Ad ☐ Friend/Relative
☐ TV Commercial ☐ Store Salesperson ☐ Other
What made you select this heater? ☐ Style ☐ Size/Portability ☐ Price ☐ Package ☐ Brand ☐ Other
Do you: ☐ own ☐ rent Would you recommend this heater to a friend? ☐ Yes ☐ No
Please give us your comments: ________________________________________________________________

Thank you for completing this form!
Information will be held confidential.
WARRANTY REGISTRATION

IMPORTANT: We urge you to fill out your warranty registration card within fourteen (14) days of date of purchase. You can also register your warranty on the internet at www.ghpgroupinc.com. Complete the entire serial number. Retain this portion of the card for your records.

GHP Group, Inc.
8280 Austin Ave.
Morton Grove, IL 60053-3207
Tel: (877) 447-4768
www.ghpgroupinc.com

SAVE THIS CARD!