



PROPANE CONSTRUCTION HEATER

USER'S MANUAL AND OPERATING INSTRUCTIONS

DURAHEAT
MODELS:

| | | |
|---------|--------------------------|---------------|
| GFA40 | (40,000 BTU/HR, | FORCED - AIR) |
| GFA50A | (30,000/50,000 BTU/HR, | FORCED - AIR) |
| GFA60A | (30,000/60,000 BTU/HR, | FORCED - AIR) |
| GFA100A | (70,000/100,000 BTU/HR, | FORCED - AIR) |
| GFA125A | (70,000/125,000 BTU/HR, | FORCED - AIR) |
| GFA150A | (120,000/150,000 BTU/HR, | FORCED - AIR) |



C US

CSA 2.14a-2007, ANSI Z83.7a-2007



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 THE HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONOXIDE POISONING, AND/OR ELECTRICAL SHOCK.

ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS HEATER.

IF YOU NEED ASSISTANCE OR HEATER INFORMATION SUCH AS AN INSTRUCTION MANUAL, LABELS, ETCETERA, CONTACT THE MANUFACTURER.

RETAIN THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE.

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 **WARNING:** FIRE, BURN, INHALATION, AND EXPLOSION HAZARD, KEEP SOLID COMBUSTIBLES, SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD, A SAFE DISTANCE AWAY FROM THE 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 THINNERS, DUST PARTICLES OR UNKNOWN CHEMICALS.

CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals, including lead and lead compounds, a chemical known to the state of California to cause birth defects or other reproductive harm. *Wash hands after handling.*

 **WARNING: NOT FOR HOME OR RECREATIONAL VEHICLE USE.**

DURAHEAT PROPANE FORCED AIR CONSTRUCTION HEATERS

The heater is designed and approved for use as a construction heater under ANSI Z83.7a, CSA 2.14a. It is hard to anticipate every use which may be made of this heater. **CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT APPLICATIONS.**

Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these.

IMPORTANT: READ THIS USER'S MANUAL CAREFULLY AND COMPLETELY BEFORE TRYING TO OPERATE OR SERVICE THIS HEATER. IMPROPER USE OF THIS HEATER CAN CAUSE SERIOUS INJURY OR DEATH FROM FIRE, EXPLOSION AND CARBON MONOXIDE POISONING.

This is a direct-fired forced air construction heater for either indoor construction or outdoor use. Its intended use is primarily the temporary heating of buildings or structures under construction, alteration or repair. All the products of combustion generated by the heater are forced through the heater and released into the area being heated. This heater operates at approximately 98%+ combustion efficiency but still produces a small amount of carbon monoxide. Humans can tolerate small amounts of carbon monoxide for short periods. Carbon monoxide can build up in a heated space and failure to provide adequate ventilation could result in poisoning or death.

 **WARNING: NOT FOR USE WITH DUCT WORK.**

SPECIFICATIONS

| Input Rating | 40,000 BTU/hr | 30,000 BTU/hr 50,000 BTU/hr | 30,000 BTU/hr 60,000 BTU/hr | 70,000 BTU/hr 100,000 BTU/hr | 70,000 BTU/hr 125,000 BTU/hr | 120,000 BTU/hr 150,000 BTU/hr |
|---|-------------------------------------|-------------------------------------|-------------------------------------|--|--|--------------------------------------|
| Type of Gas | Propane | Propane | Propane | Propane | Propane | Propane |
| Gas Supply Pressure to Regulator | Cylinder Pressure | Cylinder Pressure | Cylinder Pressure | Cylinder Pressure | Cylinder Pressure | Cylinder Pressure |
| Maximum Minimum (for purpose of Input Adjustment) | 5psig | 5psig | 5psig | 5psig | 5psig | 5psig |
| Manifold Pressure | 11" W.C | 11" W.C | 11" W.C | 11" W.C | 11" W.C | 11" W.C |
| Gas Consumption | 1.9lbs/hr | 1.4lbs/hr 2.3lbs/hr | 1.4lbs/hr 2.8lbs/hr | 3.3lbs/hr 4.6lbs/hr | 3.3lbs/hr 5.8lbs/hr | 5.6lbs/hr 7.0lbs/hr |
| Electrical Input | 120V, 60Hz, 1Ø | 120V, 60Hz, 1Ø | 120V, 60Hz, 1Ø | 120V, 60Hz, 1Ø | 120V, 60Hz, 1Ø | 120V, 60Hz, 1Ø |
| Amperage | Load | 0.68amps | 0.65amps | 0.65amps | 0.7amps | 0.7amps |
| Fan | Unload Load | 3550rpm 3000rpm | 3570rpm 3300rpm | 3570rpm 3300rpm | 3580rpm 3300rpm | 3580rpm 3300rpm |
| Ignition | Piezo/Manual Spark | Continuous Spark | Continuous Spark | Continuous Spark | Continuous Spark | Continuous Spark |
| Spark Gap | 0.16" (4mm) | 0.16" (4mm) | 0.16" (4mm) | 0.16" (4mm) | 0.16" (4mm) | 0.11" (2.8mm) |
| Size (LxWxH) | 19.3"x8.3"x15.2" (490x211x386)mm | 19.3"x8.3"x15.2" (490x211x386)mm | 19.3"x8.3"x15.2" (490x211x386)mm | 25.6"x12.7"x15.6" (650x323x396)mm 25.6"x11.8"x16.1" (650x300x409)mm | 25.6"x12.7"x15.6" (650x323x396)mm 25.6"x11.8"x16.1" (650x300x409)mm | 25.6"x11.8"x16.1" (650x300x409)mm |
| Weight | 13.7lbs/14lbs (6.2kg/6.35kg) | 14.3lbs (6.48kg) | 14.3lbs (6.48kg) | 21.5lbs/21lbs/20.8lbs (9.75kg/9.5kg/9.4kg) | 21.5lbs/21lbs/20.8lbs (9.75kg/9.5kg/9.4kg) | 21.2lbs (9.6kg) |

GENERAL SAFETY INSTRUCTION

Accidents are always tragic especially because so many of them could have been prevented with little care and judgment. There are some basic good practices, we hope you will follow for safe use of your heater.

IMPORTANT SAFETY INSTRUCTION

- Children should be carefully supervised, when they are in the area.
- Always maintain proper clearance from combustible materials. Minimum clearance from combustibles: Side - 24" (61cm); Top - 36" (91cm); Front - 72" (1.8M). Floor - combustible. Not for use on finished floors.
- Heater must be placed on level and stable surface.
- Never place anything including clothes or other flammable items on the heater.
- The appliance area shall be kept clear and free from combustible materials, gasoline and other flammable vapours and liquids.
- Do not modify or operate a heater which has been modified.
- Adequate clearance for accessibility and for combustion & ventilation air supply must be maintained at all times when the heater is operating.
- Service and repair should be done by a qualified service person. The heater should be inspected before each use and at least annually by a qualified person. More frequent cleaning may be required as necessary. Do not service while hot or operating.
- Never connect heater to an unregulated gas supply.
- The heater is shipped from the factory for LP(Propane) gas. This heater is for use with propane gas only, do not convert heater to any other gas. Installation must conform to local codes or, in the absence, with the standard for the Storage and Handling of Liquefied Petroleum Gases ANSI/NFPA NFPA 58 and the Natural Gas and Propane Installation Code CSA B149.1
- The minimum and maximum inlet pressures to the regulator from the gas tank are 5 psi and bottle pressure, respectively. Use only the regulator & hose assembly provided with the heater. Inspect the regulator/hose assembly prior to each use of the heater. If there is excessive abrasion or wear, or hose is cut, replace with regulator/hose assembly listed on the parts list prior to using this heater.
- Gas supply connections should be checked using a 50/50 solution of liquid dish soap and never use a flame to check for gas leaks.
- The electrical connection & grounding must comply with National Electrical Code. ANSI/NFPA 70 or in Canada CSA C22.1, Canadian Electrical Code, Part 1. Use only a properly grounded three (3) prong receptacle.
- Do not restrict inlet or outlet by any means. The flow of combustion and ventilation air is not to be obstructed.
- Forced air heaters should not be directed toward any propane or gas container within 20 feet (6M) of the exit nozzle. The heater should also be located at least 6 (1.8M) feet away from any propane gas container (regulations in Canada are 10 feet (3M)).
- The propane cylinder supply system must be arranged to provide for vapour withdrawal from the operating cylinder.

 **WARNING:** Motor and fan must be running before lighting, during operation and at shutdown, in order to prevent a flame-out condition which could result in personal injury or property damage.

PRODUCT FEATURES

- Portable & Stable
- Wind Resistant & Rain Protected
- Continuous Spark Ignition or Piezo Electric Spark Ignition
- 100% Safety Shutoff System
- Adjustable Input Ratings

UNPACKING HEATER

1. Remove heater from carton.
2. Remove all protective packing applied to heater for shipment.
3. Retain cartons and packaging material until unit is operated and found in good condition.
4. Check heater for any shipping damage. If heater shows any external or internal damage, promptly inform dealer/distributor where you purchased heater.

INFORMATION ON SIZE * CAPACITY OF PROPANE GAS CYLINDERS:

The chart below shows the number and size of propane tanks needed to run this heater.

*Less gas is vaporized at lower temperatures.

You may need two or more 100 pound tanks or one larger tank in colder weather.

(See the parts list for your model of heater to get the specified regulator assembly.)

| Temperature (°F) At tank | Number of Tanks | | |
|-----------------------------|---------------------|----------------------------|-----------------|
| | 40,000-60,000 BTU/h | 100,000 - 125,000 BTU/h | 150,000 BTU/h |
| Above 32°F | 1 - 20lb | 2 - 100lb | 2 - 100lb |
| 32°F | 1 - 20lb | 2 - 100lb | 2 - 100lb |
| 20°F | 1 - 20lb | 2 - 100lb | 3 - 100lb |
| 10°F | 1 - 20lb | 3 - 100lb | 3 - 100lb |
| -10°F | 2 - 20lb | Use Larger Tank | Use Larger Tank |
| -20°F | 1 - 100lb | Use Larger Tank | Use Larger Tank |

The propane (LP) gas tank must also be equipped with the following:

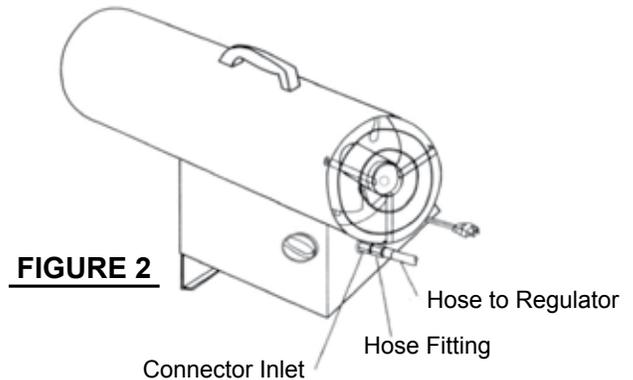
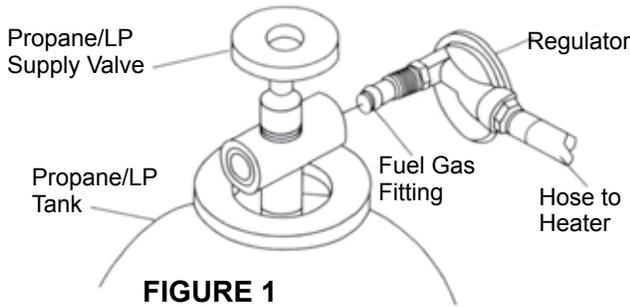
- A collar to protect the Propane gas valve.
- A shutoff valve terminating a Propane gas cylinder valve outlet as specified in the American National Standards for Compressed Gas Cylinder Valve Outlets and Inlet Connections.
- A safety relief valve having direct communications with the vapor space of the tank.
- An arrangement of vapor withdrawal.

The propane (LP) gas pressure regulator and hose assembly supplied with this heater must be used without alteration.

The hose assembly shall be visually inspected prior to each use of the heater. If it is evident that there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer.

INSTALLATION TO THE PROPANE GAS TANK

IMPORTANT: You must use a propane/LP gas supply cylinder that is compatible with the connection device provided with the hose and regulator.



1. Provide propane/LP supply system (see size/capacity, page 7).
2. Connect fuel gas fitting hose/regulator assembly to propane LP tank(s). Turn fuel fitting counterclockwise into threads on tank. Tighten firmly using a wrench. Some models have a hand wheel that can be used to tighten the fitting. This hand wheel can be slid off of the nut so that a wrench can also be used to tighten the fitting. **IMPORTANT:** Position regulator so that hose leaving the regulator is in a horizontal position (see Figure 1)
3. Connect hose to heater inlet. Tighten firmly using a wrench. You must use the regulator supplied with heater.
4. Open propane/LP supply valve on propane/LP tank(s) slowly. NOTE: If not opened slowly, excess flow device in regulator may stop gas flow. If this happens, close propane/LP supply valve, wait one minute (or until you hear a click) and open again slowly.
5. Check all connections for leaks. Apply a 50/50 solution of liquid dish soap and water to gas joints. Bubbles forming show a leak that must be corrected.
6. Close propane / LP supply valve before attempting to repair connection.



WARNING: Purging and filling of LP gas tanks must be performed by personnel who has been thoroughly trained in accepted LP gas industry procedures. Failure to follow these instructions may result in explosion, fire, severe personal injury, or death.

REFILLING THE PROPANE GAS TANK

ALL NEW CYLINDERS MUST BE PURGED BEFORE THE FIRST FILLING.

- Turn heater gas valve knob and gas tank valve to OFF position.
- Propane tank valve equipped with the old style fitting has LEFT HANDED THREADS. Turn POL fitting CLOCKWISE to loosen. Protect POL fitting when disconnected from tank.
- Have tank filled by your local Propane gas supplier.
- Fasten full Propane tank and connect POL fitting to tank valve by turning COUNTERCLOCKWISE.
- With heater gas valve knob still in the OFF position, turn ON tank valve and check for leaks with soap solution.

PROPANE SAFETY

Propane is safe to use when properly handled. Careless handling of the Propane gas tank could result in fire and/or an explosion. Therefore:

- Always keep tank/cylinder securely fastened in an upright position.
- Avoid tipping tank on its side when connected to a regulator since this may cause damage to diaphragm in regulator.
- Handle valves with care.
- Never connect an unregulated Propane tank to construction heater.
- Do not subject Propane tank to excessive heat.
- Tightly close the gas shutoff valve on the Propane tank after each use.
- The POL fitting must be protected when disconnected from the propane tank.
- Never store a Propane gas tank inside a building or in the vicinity of any gas burning appliance.

THE DISCONNECTED TANK MUST NEVER BE STORED IN A BUILDING, GARAGE OR ANY OTHER ENCLOSED AREA.

LEAK CHECKING

Check all gas connections with a soap solution to be sure they are tight and leak proof.

- The installation of your heater must meet all local codes and/or gas utility requirements or, in the absence of local codes, with the Storage and Handling of Liquefied Petroleum Gases, ANSI/ NFPA 58 and the Natural and Propane Installation Code, CSA B149.1.
- The minimum clearances to combustible construction: Side - 24" (61cm); Top - 36" (91cm); Front - 72" (1.8M); Floor - combustible, must be maintained at all times.
- The hose assembly should be visually inspected prior to each use of the heater. If it is evident that there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation.
- The replacement hose assembly shall be that specified by the manufacturer (Refer to parts list).

LIGHTING INSTRUCTIONS

 **WARNING:** Motor and fan must be running before lighting, during operation and shutdown, in order to prevent a flame-out condition which could result in personal injury or property damage.

1. Connect power cord to a properly grounded three (3) prong 120V, 60Hz, single phase receptacle.
2. Turn gas valve knob clockwise to OFF position.
3. Wait five (5) minutes to clear any gas. Then smell for gas, if you don't smell gas, go to next step.
4. Turn gas supply ON by turning Propane tank valve counterclockwise.
5. Push in and turn gas control knob counterclockwise to "LOW/IGN". This will light the burner. If needed, keep pressing control knob until the burner lights and keep depressing and turning from OFF to LOW/IGN on Piezo electric spark models. ("HIGH/IGN": In case of FA40 series)
6. Keep the valve knob depressed for at least 30 seconds after lighting the burner. After 30 seconds release valve knob.
7. If burner does not stay lit, repeat the lighting procedure.
8. When burner is lit, turn gas valve knob counterclockwise to desired setting. (All models, except FA40 series).

SHUTDOWN INSTRUCTIONS

⚠️ WARNING: Motor and fan must be running before lighting, during operation and at shutdown, in order to prevent a flame-out condition which could result in personal injury or property damage. Turn gas valve knob clockwise to OFF position. Turn gas supply OFF by turning Propane tank valve clockwise to close. Disconnect the power cord once the heater has cooled to ambient temperature.

TEST FIRING HEATER

Test fire your construction heater, following the lighting instructions applicable to the gas control system employed. Leak test all gas connections with soap solution. Soap bubbles indicate gas leakage. DO NOT use a match or flame to test for gas leaks.

STORAGE

Never store a Propane gas tank inside a building or in the vicinity of any gas or oil burning appliance. When the Propane tank is not disconnected from the construction heater, the gas tank and heater must be stored outdoors in a well ventilated area, out of the reach of children. If for any reason the heater is to be stored indoors, the tank must be disconnected and stored outdoors in a well ventilated area out of reach of children, in accordance with the standard for the the Storage and Handling of Liquefied Petroleum Gases, ANSI / NFPA 58 and CSA B149.1, Natural Gas and Propane Installation Code. The plastic tank valve plug supplied with your tank must be tightly installed when the tank is disconnected from the heater.

MAINTENANCE INSTRUCTIONS

1. Turn unit off, allow heater to fully cool and disconnect propane hose before performing any Maintenance functions. Unplug the unit from the 120V receptacle.
2. Keep unit clean and keep the inside of the torpedo housing debris free.
3. Have unit checked by a qualified technician at least once a year, preferably prior to the heating season.

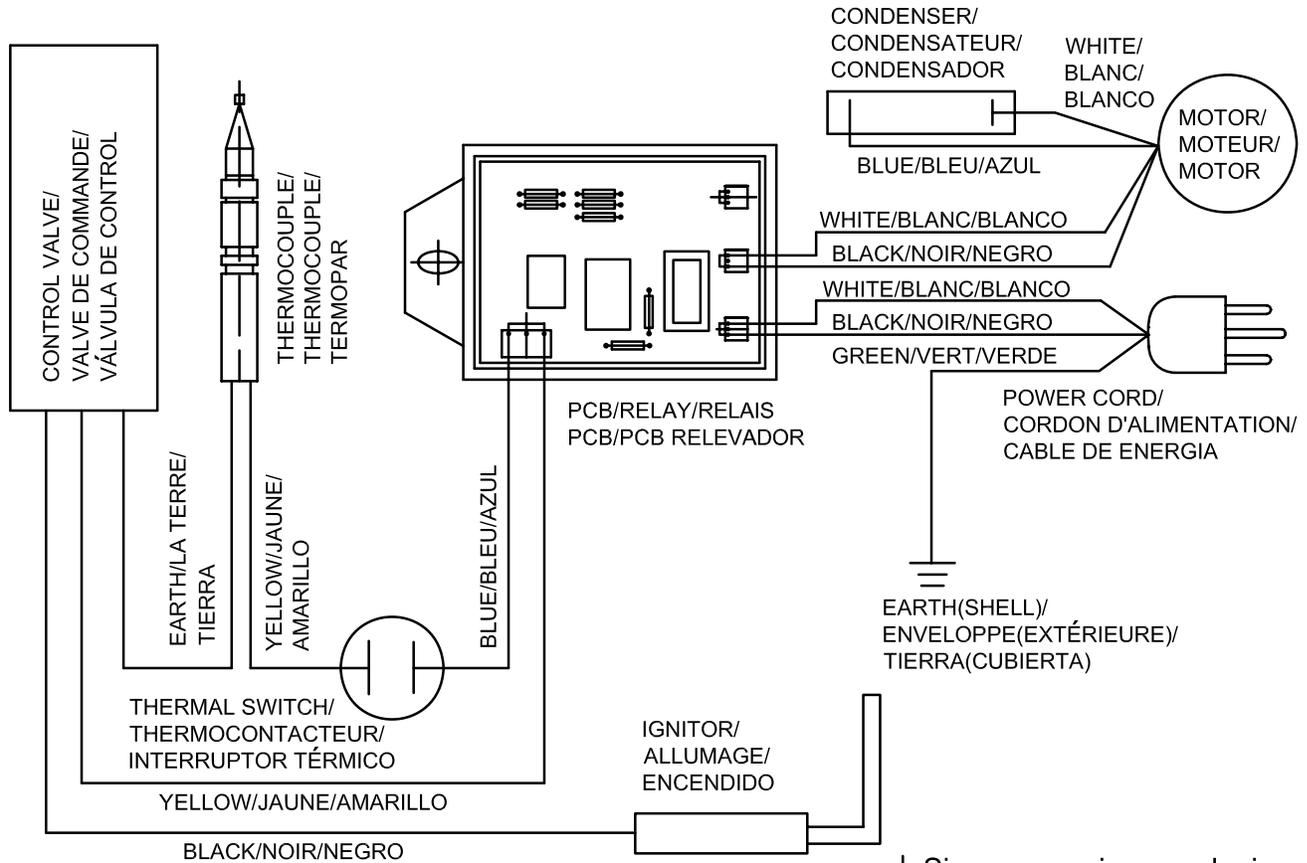
TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | CORRECTIVE ACTION |
|--|--|---|
| 1. Fan does not turn when electrical connection is made. | <ol style="list-style-type: none"> 1. No electric power to heater. 2. Fan blade contacts inside of heater housing. 3. Fan blade(s) bent 4. Fan motor defective. | <ol style="list-style-type: none"> 1. Check current to electric outlet. If voltage is correct, check power cord and extension cord for cuts and breaks. 2. Be sure that housing is not damaged. Make sure there are no obstructions to the fan. 3. Straighten blade(s) to match others. 4. Replace motor. |
| 2. Heater will not fire. | <ol style="list-style-type: none"> 1. No spark at ignitor. 2. Improper spark gap. 3. Bad electrode. | <ol style="list-style-type: none"> 1. Check ignitor wire. Re-attach or tighten if loose. Check Spark module. Replace if necessary. 2. Set gap (See specifications for gap). 3. Replace Spark Plug. |
| 3. Heater quits while running. | <ol style="list-style-type: none"> 1. Internal temperature too high causing limit switch to shut down operation. 2. Damaged Control Valve. 3. Dust or debris build-up inside of heater. | <ol style="list-style-type: none"> 1. If the heaters output is restricted, internal temperature becomes too high. Move heater away from any obstructions. 2. Replace Control Valve. 3. Clean inside of heater. |

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.

WIRING DIAGRAMS

PIEZO / MANUAL SPARK MODELS MODÈLES À ÉTINCELLE PIÉZOÉLECTRIQUE / MANUELLE MODELOS DE CHISPA MANUAL O PIEZOELÉCTRICA



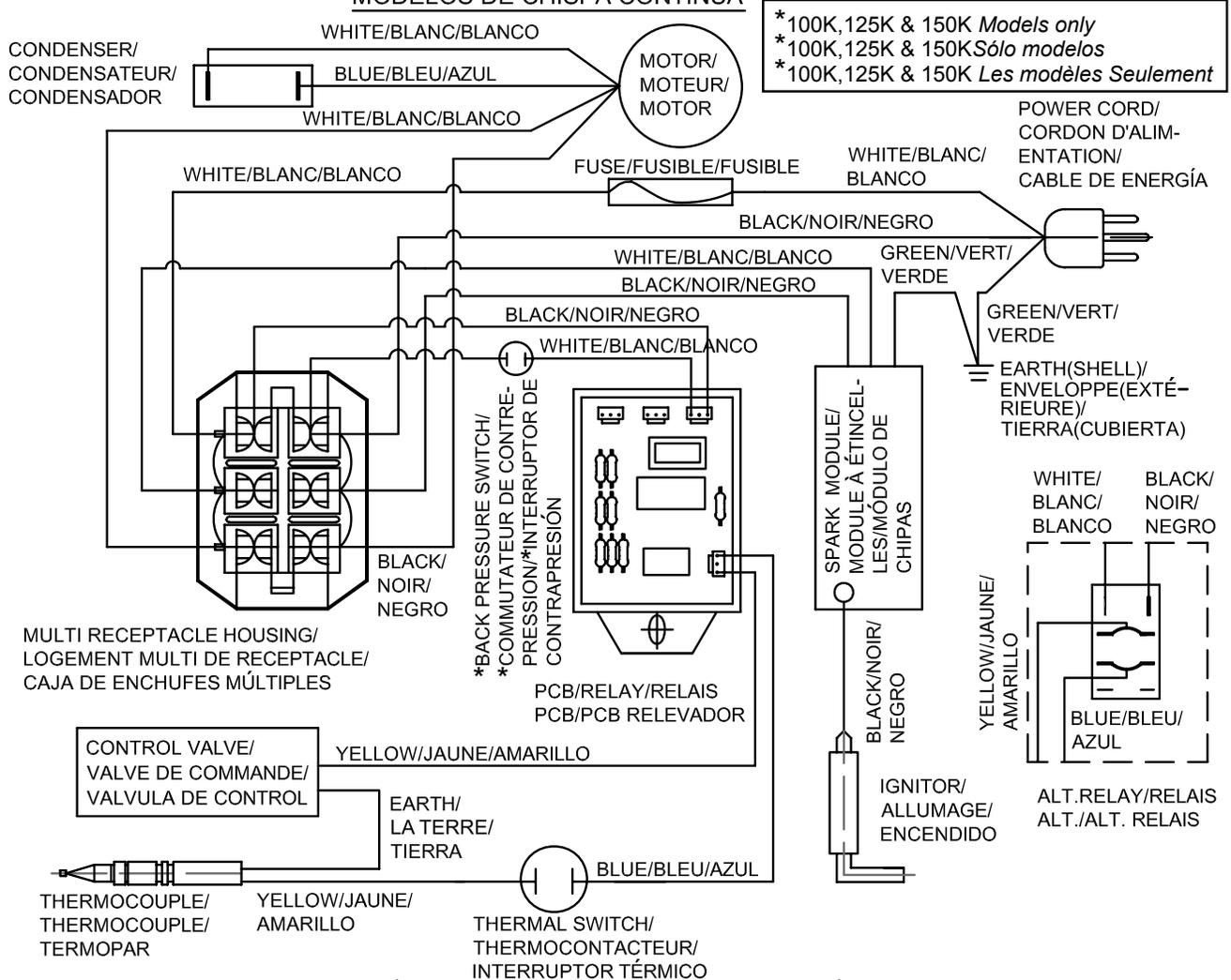
If any original wiring supplied with the heater must be replaced, it must be type AWG 105°C wire or its equivalent, except as indicated.

Si vous devez faire remplacer les fils d'origine du radiateur, procurez-vous du fil AWG 105 Celsius ou l'équivalent, sauf indication contraire.

Si se proporciona cualquier cableado con el calentador se debe reemplazar, debe ser cable tipo AWG 105°C o su equivalente, excepto como se indica.

WIRING DIAGRAMS

CONTINUOUS SPARK MODELS/MODÈLES À ÉTINCELLE CONTINUE MODELOS DE CHISPA CONTINUA



If any original wiring supplied with the heater must be replaced, it must be type AWG 105°C wire or its equivalent, except as indicated.

Si vous devez faire remplacer les fils d'origine du radiateur, procurez-vous du fil AWG 105 Celsius ou l'équivalent, sauf indication contraire.

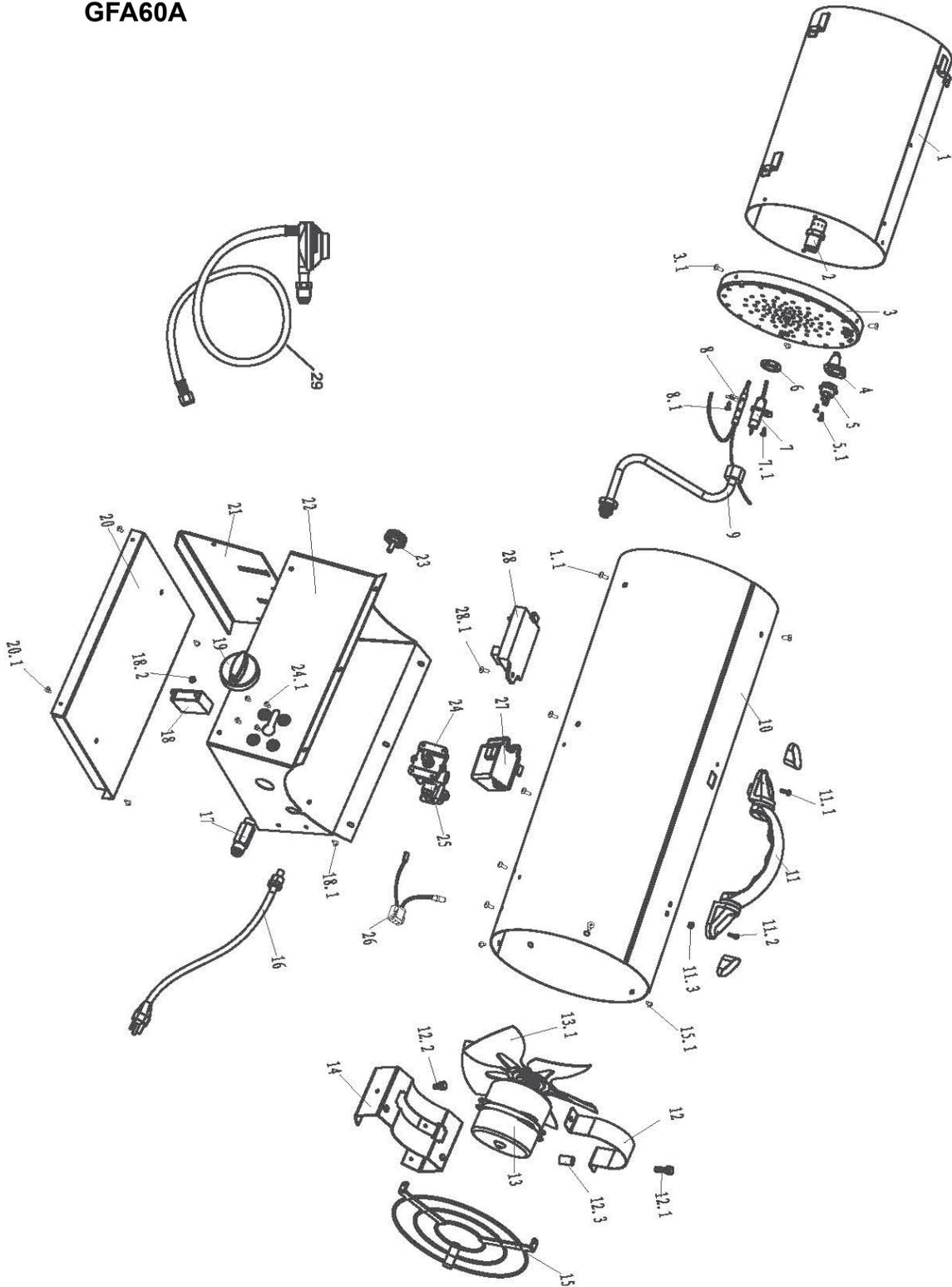
Si se proporciona cualquier cableado con el calentador se debe reemplazar, debe ser cable tipo AWG 105°C o su equivalente, excepto como se indica.

REPLACEMENT PARTS LIST

| ITEM NO. | DESCRIPTION | QTY. | PART NUMBER | | |
|----------|------------------------------------|------|-------------------------|--------------------|------------------|
| | | | GFA40 | GFA50A | GFA60A |
| 1 | SHELL IN ASSY | 1 | 2304818 | 2304818 | 2304818 |
| 1.1 | SCREW | 5 | 2001355 | 2001355 | 2001355 |
| 2 | NOZZLE | 1 | 2304829 | 2304942 | 2325121 |
| 3 | FRAME HOLDER | 1 | 2304819 | 2304819 | 2325120 |
| 3.1 | SCREW | 3 | 2001355 | 2001355 | 2001355 |
| 4 | THERMAL SWITCH BRACKET | 1 | 2304826 | 2304826 | 2304826 |
| 5 | THERMAL SWITCH | 1 | 2201373 | 2201563 | 2206048 |
| 5.1 | SCREW | 2 | 2001154 | 2001154 | 2001154 |
| 6 | NOZZLE NUT | 1 | 2304578 | 2304578 | 2304578 |
| 7 | SPARK PLUG ASSY | 1 | 2201375 | 2201375 | 2201375 |
| 7.1 | SCREW | 1 | 2001355 | 2001355 | 2001355 |
| 8 | THERMOCOUPLE ASSY (1130/1474-425L) | 1 | 2304885 | 2304885 | 2304885 |
| 8.1 | SCREW | 1 | 2001355 | 2001355 | 2001355 |
| 9 | TUBING ASSY | 1 | 2304830 | 2304830 | 2304830 |
| 10 | OUT SHELL | 1 | 2315956 | 2315956 | 2315956 |
| 11 | HANDLE ASSY | 1 | 2101447 | 2101447 | 2101447 |
| 11.1 | SCREW | 1 | 2001355 | 2001355 | 2001355 |
| 11.2 | SCREW | 1 | 2001077 | 2001077 | 2001077 |
| 11.3 | NUT | 1 | 2000384 | 2000384 | 2000384 |
| 12 | MOTOR SUPPORT | 1 | 2304823 | 2304823 | 2304823 |
| 12.1 | BOLT | 1 | 2001332 | 2001332 | 2001332 |
| 12.2 | BOLT | 1 | 2001333 | 2001333 | 2001333 |
| 12.3 | SLEEVE | 1 | 2304949 | 2304949 | 2304949 |
| 13 | MOTOR ASSY | 1 | 2305909 | 2304547 | 2304547 |
| 13.1 | MOTOR FAN | 1 | 2304821 | 2304821 | 2304821 |
| 14 | MOTOR BRACKET | 1 | 2304824 | 2304937 | 2304937 |
| 15 | GUARD FAN | 1 | 2304828 | 2304828 | 2304828 |
| 16 | POWER CORD ASSY | 1 | 2201368 | 2101670 | 2101670 |
| 17 | CONNECTOR INLET | 1 | 2304831 | 2304831 | 2304831 |
| 18 | CAPACITY | 1 | 2201372 | 2201372 | 2201372 |
| 18.1 | SCREW | 1 | 2001200 | 2001200 | 2001200 |
| 18.2 | NUT | 1 | 2001145 | 2001145 | 2001145 |
| 19 | KNOB | 1 | 2101451 | 2101451 | 2101451 |
| 20 | BASE LOWER | 1 | 2304925 | 2304925 | 2304925 |
| 20.1 | SCREW | 4 | 2001355 | 2001355 | 2001355 |
| 21 | HEIGHT CONTROLLER | 1 | 2304927 | 2304927 | 2304927 |
| 22 | BASE ASSY | 1 | 2304923 | 2304923 | 2304923 |
| 22.1 | SCREW | 6 | 2001355 | 2001355 | 2001355 |
| 23 | HEIGHT CONTROL SCREW | 1 | 2304510 | 2304510 | 2304510 |
| 24 | VALVE BRACKET | 1 | 2304624 | 2304624 | 2304624 |
| 24.1 | SCREW | 4 | 2001355 | 2001355 | 2001355 |
| 25 | VALVE | 1 | 5050200(CK-890SL-AI(A)) | 5050510(K-890D-A6) | 5051033 |
| 26 | LEAD WIRE ASSY | 1 | 2201371 | 2201371 | 2201371 |
| 27 | SPARK MODULE | 1 | N/A | 2201391 | 2201391 |
| 28 | PCB ASSY | 1 | 2201369 | 2201369 | 2201369 |
| 28.1 | SCREW | 1 | 2001355 | 2001355 | 2001355 |
| 29 | REGULATOR & HOSE ASSEMBLY | 1 | 5002199 (10 ft.) | 5002616 (10 ft.) | 5055544 (10 ft.) |

PROPANE CONSTRUCTION HEATER ILLUSTRATED / PARTS BREAKDOWN

MODELS: GFA40
GFA50A
GFA60A

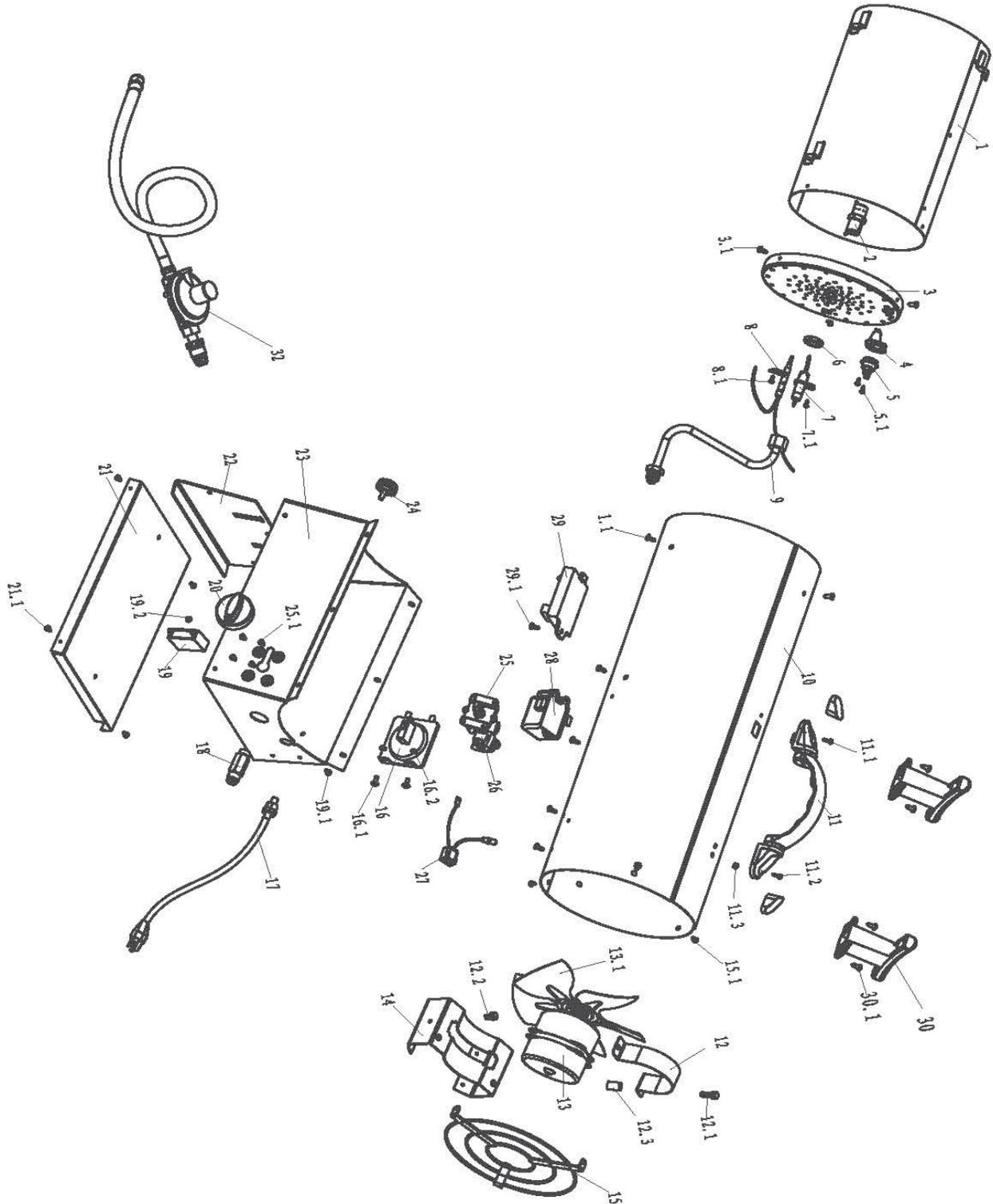


REPLACEMENT PARTS LIST

| ITEM NO. | DESCRIPTION | QTY. | PART NUMBER | | |
|----------|------------------------------------|------|-----------------------------------|----------------------------------|----------------------------------|
| | | | GFA100A | GFA125A | GFA150A |
| 1 | SHELL IN ASSY | 1 | 2304929 | 2304929 | 2304929 |
| 1.1 | SCREW | 5 | 2001355 | 2001355 | 2001355 |
| 2 | NOZZLE | 1 | 2304943 | 2325123 | 2304944 |
| 3 | FRAME HOLDER | 1 | 2304930 | 2325122 | 2304931 |
| 3.1 | SCREW | 3 | 2001355 | 2001355 | 2001355 |
| 4 | THERMAL SWITCH BRACKET | 1 | 2304826 | 2315515 | 2304826 |
| 5 | THERMAL SWITCH | 1 | 2201373 | 2201373 | 2201373 |
| 5.1 | SCREW | 2 | 2001154 | 2001154 | 2001154 |
| 6 | NOZZLE NUT | 1 | 2304578 | 2304945 | 2304945 |
| 7 | SPARK PLUG ASSY | 1 | 2201392 | 2201393 | 2201393 |
| 7.1 | SCREW | 1 | 2001355 | 2001355 | 2001355 |
| 8 | THERMOCOUPLE ASSY (1130/1474-425L) | 1 | 2304885 | 2304885 | 2304885 |
| 8.1 | SCREW | 1 | 2001355 | 2001355 | 2001355 |
| 9 | TUBING ASSY | 1 | 2304946 | 2304947 | 2304947 |
| 10 | OUT SHELL | 1 | 2915957 | 2304922 | 2315957 |
| 11 | HANDLE ASSY | 1 | 2101447 | 2101447 | 2101447 |
| 11.1 | SCREW | 1 | 2001355 | 2001355 | 2001355 |
| 11.2 | SCREW | 1 | 2001077 | 2001077 | 2001077 |
| 11.3 | NUT | 1 | 2000384 | 2000384 | 2000384 |
| 12 | MOTOR SUPPORT | 1 | 2304823 | 2304823 | 2304823 |
| 12.1 | BOLT | 2 | 2001332 | 2001332 | 2001332 |
| 13 | MOTOR ASSY | 1 | 2304548 | 2304548 | 2304548 |
| 13.1 | MOTOR FAN | 1 | 2304936 | 2304936 | 2304936 |
| 14 | MOTOR BRACKET | 1 | 2304938 | 2304938 | 2304938 |
| 15 | GUARD FAN | 1 | 2304939 | 2304939 | 2304939 |
| 16 | BACK PRESSURE SWITCH | 1 | 2305976 | 2305976 | 2305976 |
| 16.1 | SCREW | 2 | 2000375 | 2000596 | 2000375 |
| 16.2 | NUT | 2 | 2001145 | 2001145 | 2001145 |
| 17 | POWER CORD ASSY | 1 | 2101673 | 2101673 | 2101673 |
| 18 | CONNECTOR INLET | 1 | 2304831 | 2304831 | 2304831 |
| 19 | CAPACITY | 1 | 2201390 | 2201390 | 2201390 |
| 19.1 | SCREW | 1 | 2001200 | 2000496 | 2001200 |
| 19.2 | NUT | 1 | 2001145 | 2001145 | 2001145 |
| 20 | KNOB | 1 | 2101451 | 2101451 | 2101451 |
| 21 | BASE LOWER | 1 | 2304926 | 2304926 | 2304926 |
| 21.1 | SCREW | 4 | 2001355 | 2001355 | 2001355 |
| 22 | HEIGHT CONTROLLER | 1 | 2304928 | 2304928 | 2304928 |
| 23 | BASE ASSY | 1 | 2304924 | 2304924 | 2304924 |
| 23.1 | SCREW | 6 | 2001355 | 2001355 | 2001355 |
| 24 | HEIGHT CONTROL SCREW | 1 | 2304928 | 2304928 | 2304928 |
| 25 | VALVE BRACKET | 1 | 2304624 | 2304924 | 2304624 |
| 25.1 | SCREW | 4 | 2001355 | 2001356 | 2001355 |
| 26 | VALVE | 1 | 5050474(K-890SL-A6(A)) | 5051036 (K-890D-A6 (B)) | 5050475 (K-890D-A6 (B)) |
| 27 | LEAD WIRE ASSY | 1 | 2201371 | 2201371 | 2201371 |
| 28 | SPARK MODULE | 1 | 2201391 | 2201391 | 2201391 |
| 29 | PCB ASSY | 1 | 2201369 | 2201369 | 2201369 |
| 29.1 | SCREW | 1 | 2001355 | 2001355 | 2001355 |
| 30 | CORD WRAP | 2 | 2101423 | 2101423 | 2101423 |
| 30.1 | SCREW | 4 | 2001081 | 2101423 | 2001081 |
| 32 | REGULATOR & HOSE ASSY | 1 | 5002758&5002721 (TYQ-6E1-LL38-00) | 5055539&5002721(TYQ-6E1-LL38-00) | 500275&5002721 (TYQ-6E1-LL38-00) |

PROPANE CONSTRUCTION HEATER ILLUSTRATED / PARTS BREAKDOWN

MODELS: GFA100A
GFA125A
GFA150A



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WARRANTY

LIMITED WARRANTY:

This limited warranty is extended to the original retail purchaser of this Duraheat 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. World Marketing of America, 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 World Marketing, 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.**

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 WORLD MARKETING OF AMERICA 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 Consumer Warranty 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 WORLD MARKETING OF AMERICA, 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.worldmktng.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 _____
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.

Part No. 09LPWTY

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.worldmkting.com. Complete the entire serial number. Retain this portion of the card for your records.

**World Marketing of America, Inc.
PO Box 192, 12256 William Penn Hwy.
Mill Creek PA 17060-0192
Tel) 1-800-776-9425
www.worldmkting.com**

SAVE THIS CARD!

Place
Postage
Stamp
Here

**World Marketing of America, Inc.
PO Box 192, 12256 William Penn Hwy.
Mill Creek PA 17060-0192**