IMPORTANT: Read and understand this manual before assembling, starting, or servicing heater. Improper use of heater can cause serious injury. Keep this manual for future reference.
Use only kerosene or No. 1 fuel oil to avoid risk of fire or explosion. Never use gasoline, naphtha, paint thinners, alcohol, or other highly flammable fuels.

Fueling
a) Personnel involved with fueling shall be qualified and thoroughly familiar with the manufacturer's instructions and applicable federal, state, and local regulations regarding the safe fueling of heating units.

b) Only the type of fuel specified on the heater's data plate shall be used.

c) All flame, including the pilot light, if any, shall be extinguished and the heater allowed to cool, prior to fueling.

d) During fueling, all fuel lines and fuel-line connections shall be inspected for leaks. Any leaks shall be repaired prior to returning the heater to service.

e) At no time shall more than one day's supply of heater fuel be stored inside a building in the vicinity of the heater. Bulk fuel storage shall be outside the structure.

f) All fuel storage shall be located a minimum of 25 feet from heaters, torches, welding equipment, and similar sources of ignition (exception: the fuel reservoir integral with the heater unit).

g) Whenever possible, fuel storage shall be confined to areas where floor penetrations do not permit fuel to drip onto or be ignited by a fire at lower elevation.

h) Fuel storage shall be in accordance with the federal, state, or local authority having jurisdiction.

Never use heater where gasoline, paint thinner, or other highly flammable vapors are present.

Follow all local ordinances and codes when using heater.

Heaters used in the vicinity of tarpaulins, canvas, or similar enclosure materials shall be located a safe distance from such materials. The recommended minimum safe distance is 10 feet. It is further recommended that these enclosure materials be of a fire retardant nature. These enclosure materials shall be securely fastened to prevent them from igniting or from upsetting the heater due to wind action.

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. This heater produces carbon monoxide, which is listed by the State of California as a reproductive toxin under Proposition 65.

Use only in places free of flammable vapors or high dust content.

Use only the electrical voltage and frequency specified on model plate.

Use only a three-prong, grounded extension cord.

Minimum heater clearances from combustibles:
Outlet: 8 Ft.  Sides: 4 Ft.
Top: 4 Ft.  Rear: 4 Ft.

Locate heater on a stable and level surface if heater is hot or running or a fire may occur.

When moving or storing heater, keep heater in a level position or fuel spillage may occur.

Keep children and animals away from heater.

Unplug heater when not in use.

Heater is equipped with a thermostat. Heater may start anytime.

Never use heater in living or sleeping areas.

Never block air inlet (rear) or air outlet (front) of heater.

Never move, handle, refuel, or service a hot, operating, or plugged-in heater.

Never attach duct work to front or rear of heater.
OWNER’S MANUAL

PRODUCT IDENTIFICATION

UNPACKING

1. Remove all packing items applied to heater for shipment.
2. Remove all items from carton.
3. Check items for shipping damage. If heater is damaged, promptly inform dealer where you bought heater.

Figure 1 - 200,000 Btu/Hr Model
**ASSEMBLY**

This model is furnished with wheels and handles. Wheels, handles, and the mounting hardware are found in the shipping carton.

**Tools Needed**
- Medium Phillips Screwdriver
- 3/8" Open or Adjustable Wrench
- Hammer

1. Slide axle through wheel support frame. Install wheels on axle.
   
   **IMPORTANT:** When installing wheels, point extended hub of wheels toward wheel support frame (see Figure 2).

2. Place cap nuts on axle ends. Gently tap with hammer to secure.

3. Place heater on wheel support frame. Make sure air inlet end (rear) of heater is over wheels. Line up holes on fuel tank flange with holes on wheel support frame.

4. Place handles on top of fuel tank flange. Insert screws through handles, fuel tank flange, and wheel support frame. Attach nut finger tight after each screw is inserted.

5. After all screws are inserted, tighten nuts firmly.

**FUELS**

**WARNING:** Use only kerosene or No. 1 fuel oil to avoid risk of fire or explosion. Never use gasoline, naphtha, paint thinners, alcohol, or other highly flammable fuels.

Do not use heavy fuels such as No. 2 fuel oil or No. 2 Diesel. Using heavy fuels will result in:
- clogged fuel filter and nozzle
- carbon build up on spark plug
- the need of nontoxic anti-icer in fuel during very cold weather

**IMPORTANT:** Use a KEROSENE ONLY storage container. Be sure storage container is clean. Foreign matter such as rust, dirt, or water will cause the flame-out control to shut down heater. Foreign matter may also require you to clean fuel system often.

**VENTILATION**

**WARNING:** Follow the minimum fresh, outside air ventilation requirements. If proper fresh, outside air ventilation is not provided, carbon monoxide poisoning can occur. Provide proper fresh, outside air ventilation before running heater.

Provide at least a three-square-foot opening of fresh, outside air for each 100,000 Btu/Hr rating. Provide extra fresh air if more heaters are being used.

**Example:** A 200,000 Btu/Hr heater requires one of the following:
- a two-car garage door (16 feet wide opening) raised five inches
- a single-car garage door (9 feet wide opening) raised eight inches
- two windows (30 inches wide opening) raised fifteen inches

![Figure 2 - Wheel and Handle Assembly](image-url)
**THEORY OF OPERATION**

**The Fuel System:** The air pump forces air through the air line. The air is then pushed through the burner head nozzle. This air causes fuel to lift from the tank. A fine mist of fuel is sprayed into the combustion chamber.

**The Air System:** The motor turns the fan. The fan pushes air into and around the combustion chamber. This air is heated and provides a stream of clean, hot air.

**The Ignition System:** The electronic ignitor sends voltage to the spark plug. The spark plug ignites the fuel and air mixture.

**The Flame-out Control System:** This system causes the heater to shut down if the flame goes out.

---

**OPERATION**

⚠️ **WARNING:** Review and understand the warnings in the Safety Information section, page 2. They are needed to safely operate this heater. Follow all local codes when using this heater.

---

**To Start Heater**
1. Follow all ventilation and safety information.
2. Fill fuel tank with kerosene or No. 1 fuel oil.
3. Attach fuel cap.
4. Plug power cord of heater into three-prong, grounded extension cord. Extension cord must be at least six feet long.
5. Plug extension cord into standard 120 volt/60 hertz, three-hole, grounded outlet. Adjust thermostat to desired setting. If heater does not start, thermostat setting may be too low. Turn thermostat knob to higher position to start heater. If thermostat is in HIGH position and heater still will not start, push in flame-out control reset button (see Figure 4).

---

**Extension Cord Wire Size Requirements**

- 6 to 10 feet long, use 18 AWG rated cord
- 11 to 100 feet long, use 16 AWG rated cord
- 101 to 200 feet long, use 14 AWG rated cord

---

**To Stop Heater**
1. Unplug extension cord from outlet.

---

**To Restart Heater**
1. Wait two minutes after stopping heater.
2. Repeat steps under To Start Heater.

---

**Figure 3 - Cross Section Operational View**

---

**Figure 4 - Flame-out Control Reset Button**
## Portable Forced Air Heater

### STORING, TRANSPORTING, OR SHIPPING

**Note:** If shipping, transport companies require fuel tanks to be empty.

1. **Drain fuel tank.**
   - *Note:* This model has a drain plug on underside of fuel tank. Remove drain plug to drain all fuel. Be sure all fuel is removed.
2. **Replace drain plug.**
3. **If any debris is noted in old fuel, add 1 or 2 quarts of clean kerosene to tank, stir, and drain again. This will prevent excess debris from clogging filters during future use.**
4. **Replace fuel cap and drain plug. Properly dispose of old and dirty fuel. Check with local automotive service stations that recycle oil.**
5. **If storing, store heater in dry place. Make sure storage place is free of dust and corrosive fumes.**

**IMPORTANT:** Do not store kerosene over summer months for use during next heating season. Using old fuel could damage heater.

### PREVENTATIVE MAINTENANCE SCHEDULE

<table>
<thead>
<tr>
<th>Item</th>
<th>How Often</th>
<th>How To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank</td>
<td>Flush every 150-200 hours of operation or as needed</td>
<td>See Storing, Transporting, or Shipping</td>
</tr>
<tr>
<td>Air output and lint filters</td>
<td>Replace every 500 hours of operation or once a year</td>
<td>See Air Output, Air Intake, and Lint Filters, page 8</td>
</tr>
<tr>
<td>Air intake filter</td>
<td>Wash and dry with soap and water every 500 hours of operation or replace as needed</td>
<td>See Air Output, Air Intake, and Lint Filters, page 8</td>
</tr>
<tr>
<td>Fuel filter</td>
<td>Clean twice a heating season or replace as needed</td>
<td>See Fuel Filter, page 9</td>
</tr>
<tr>
<td>Spark plug</td>
<td>Clean and regap every 600 hours operation or replace as needed</td>
<td>See Spark Plug, page 10</td>
</tr>
<tr>
<td>Fan blades</td>
<td>Clean each season or as needed</td>
<td>See Fan, page 8</td>
</tr>
<tr>
<td>Motor</td>
<td>Not required/permanently lubricated</td>
<td></td>
</tr>
</tbody>
</table>

**WARNING:** Never service heater while it is plugged in, operating, or hot. Severe burns and electrical shock can occur.
### TROUBLESHOOTING

<table>
<thead>
<tr>
<th>OBSERVED FAULT</th>
<th>POSSIBLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
</table>
| Heater ignites, but flame-out control shuts off heater after a short period of time. | 1. Wrong pump pressure  
2. Dirty air output, air intake and lint filters  
3. Dirty fuel filter  
4. Dirt in nozzle  
5. Dirty photocell lens  
2. See Air Output, Air Intake and Lint Filters, page 8  
3. See Fuel Filter, page 9  
4. See Nozzle, page 10  
5. Clean photocell lens  
6. Replace flame-out control |

<table>
<thead>
<tr>
<th>OBSERVED FAULT</th>
<th>POSSIBLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
</table>
| Heater will not ignite, but motor runs for a short period of time.              | 1. Wrong pump pressure  
2. Carbon deposits on spark plug and/or improper gap  
3. Dirty fuel filter  
4. Dirt in nozzle  
5. Water in fuel tank  
2. See Spark Plug, page 10  
3. See Fuel Filter, page 9  
4. See Nozzle, page 10  
5. Drain and flush fuel tank with clean kerosene. See Storing, Transporting, or Shipping, page 6  
6. See Fuel Valve, page 9 |

<table>
<thead>
<tr>
<th>OBSERVED FAULT</th>
<th>POSSIBLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
</table>
| Motor does not start when heater is plugged in, fan rotates slowly or does not turn. | 1. Flame-out control not reset  
2. Solid state relay not allowed to reset  
3. Binding pump rotor | 1. Press flame-out control reset button  
2. Wait two minutes before trying to restart heater  
3. If fan is hard to turn, see Pump Rotor, page 11 |
PORTABLE FORCED AIR HEATER

SERVICE PROCEDURES

WARNING: Never service heater while it is plugged in, operating, or hot. Severe burns and electrical shock can occur.

UPPER SHELL REMOVAL
1. Remove screws along each side of heater using 5/16” nut-driver. These screws attach upper and lower shells together.
2. Lift upper shell off.
3. Remove fan guard.

FAN

IMPORTANT: Remove fan from motor shaft before removing motor from heater. The weight of the motor resting on the fan could damage the fan pitch.
1. Remove upper shell (see column 1).
2. Use 1/8” allen wrench to loosen setscrew which holds fan to motor shaft.
4. Clean fan using soft cloth moistened with kerosene or solvent.
5. Dry fan thoroughly.
6. Replace fan on motor shaft. Place fan hub flush with end of motor shaft (see Figure 6).
7. Place setscrew on flat of shaft. Tighten setscrew firmly (40-50 inch-pounds).
8. Replace fan guard and upper shell.

AIR OUTPUT, AIR INTAKE, AND LINT FILTERS
1. Remove upper shell (see column 1).
2. Remove filter end cover screws using 5/16” nut-driver.
3. Remove filter end cover.
4. Replace air output and lint filters.
5. Wash or replace air intake filter (see Preventative Maintenance Schedule, page 6).
6. Replace filter end cover.
7. Replace fan guard and upper shell.

IMPORTANT: Do not oil filters.

---

Figure 5 - Upper Shell Removal

Figure 6 - Fan Cross Section

Figure 7 - Air Output, Air Intake, and Lint Filters
SERVICE PROCEDURES  

Continued

PUMP PRESSURE ADJUSTMENT

1. Remove pressure gauge plug from filter end cover.
2. Install accessory pressure gauge (part number HA1180).
4. Adjust pressure to 6.0 PSI. Turn relief valve to right to increase pressure. Turn relief valve to left to decrease pressure.
5. Stop heater. Remove pressure gauge. Replace pressure gauge plug in filter end cover.

FUEL FILTER

1. Remove side cover screws using 5/16" nut-driver.
2. Remove side cover.
3. Pull lower fuel line off the fuel valve fitting.
4. Carefully pry bushing, lower fuel line, and fuel filter out of fuel tank.
5. Wash fuel filter with clean fuel and replace in tank.
6. Attach lower fuel line to fuel valve fitting.
7. Replace side cover.

WARNING: High Voltage

1. Disconnect 3 electrical wires from fuel valve. Note location of green ground wire (see Figure 11).
2. Using 1/4" nut driver remove 2 screws holding fuel valve and bracket to lower shell (see Figure 11). Save these screws.
3. Using 1/4" nut driver remove 2 screws holding fuel valve to bracket. Save these screws.
4. Attach new fuel valve to bracket with 2 existing screws.
5. Install new fuel valve and bracket on lower shell.
6. Connect wiring and upper and lower fuel lines to fuel valve. Make sure green ground wire is connected to correct terminal (see Figure 11).
7. Replace fan, fan guard, upper shell, and side cover.

FUEL VALVE

1. Remove side cover (see Figure 10), fan guard, and upper shell (see Figure 5, page 8) screws using 5/16" nut-driver.
2. Remove fan (see Fan, page 8).
3. Pull lower fuel line off the fuel valve fitting (see Figure 11).

Figure 8 - Pressure Gauge Plug Removal

Figure 9 - Adjusting Pump Pressure

Figure 10 - Fuel Filter Removal

Figure 11 - Fuel Valve Replacement
SERVICE PROCEDURES

Continued

SPARK PLUG
1. Remove upper shell (see page 8).
2. Remove fan (see page 8).
3. Remove spark plug wire from spark plug.
4. Remove spark plug and wave spring washer from burner head using 13/16" open-end wrench.
5. Clean and regap spark plug electrodes to .010 gap.
6. Install spark plug and wave spring washer in burner head. Torque 40 to 60 inch-pounds. Then adjust (if necessary) to bring side electrode into the acceptable range (see Figure 14).
7. Attach spark plug wire to spark plug.
8. Replace fan (see page 8).
9. Replace fan guard and upper shell.

NOZZLE
1. Remove upper shell (see page 8).
2. Remove fan (see page 8).
3. Remove fuel and air line hoses from burner head.
4. Remove spark plug wire from spark plug.
5. Remove spark plug from burner head using 13/16" open-end wrench.
6. Remove three screws using 5/16" nut-driver and remove burner head from combustion chamber.
7. Place burner head into vise and lightly tighten.
8. Carefully remove nozzle from burner head using 5/8" socket wrench (see Figure 16).
9. Blow compressed air through face of nozzle. This will free any dirt in nozzle area.
10. Inspect nozzle seal for damage.
11. Replace nozzle into burner head and tighten firmly (80-110 inch-pounds).
12. Attach burner head to combustion chamber.
13. Install spark plug in burner head.
14. Attach spark plug wire to spark plug.
15. Attach fuel and air line hoses to burner head.
16. Replace fan (see page 8).
17. Replace fan guard and upper shell.

Figure 12 - Spark Plug Removal

Figure 13 - Spark Plug Gap

Figure 14 - Acceptable Range For Side Electrode

Figure 15 - Removing Burner Head
SERVICE PROCEDURES
Continued

PUMP ROTOR
(Procedure if rotor is binding)
1. Remove upper shell (see page 8).
2. Remove filter end cover screws using 5/16” nut-driver.
3. Remove filter end cover and air filters.
4. Remove pump plate screws using 5/16” nut-driver.
5. Remove pump plate.
6. Remove rotor, insert, and blades.
7. Check for debris in pump. If debris is found, blow out with compressed air.
8. Install insert and rotor.
9. Check gap on rotor. Adjust to .003”/.004” if needed (see Figure 18).
   Note: Rotate rotor one full turn to ensure the gap is .003”/.004” at tightest position. Adjust if needed.
10. Install blades, pump plate, air filters, and filter end cover.
11. Replace fan guard and upper shell.
12. Adjust pump pressure (see page 9).
   Note: If rotor is still binding, proceed as follows.
13. Perform steps 1 through 6 above.
14. Place fine grade sandpaper (600 grit) on flat surface. Sand rotor lightly in “figure 8” motion four times (see Figure 19).
15. Reinstall insert and rotor.
16. Perform steps 10 through 12 above.
B200T 200,000 BTU/HR
PORTABLE FORCED AIR HEATER

ILLUSTRATED PARTS BREAKDOWN

B200T

Burner Head Assembly

Motor and Pump Assembly

Fuel Valve Assembly
This list contains replaceable parts used in your heater. When ordering parts, be sure to provide the correct model and serial numbers (from the model plate), then the part number and description of the desired part.

<table>
<thead>
<tr>
<th>KEY NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>KEY NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
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<td>098511-208</td>
<td>Upper Shell</td>
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<td>Rubber Bushing</td>
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<td>100647-01</td>
<td>Screw, #10-16 x 1/2&quot;</td>
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<td>M50814-03</td>
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<td>3</td>
<td>098512-48</td>
<td>Combustion Chamber</td>
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<td>Lower Shell</td>
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<td>099229-01</td>
<td>Photocell Bracket</td>
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<td>Clip Nut</td>
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<td>097702-01</td>
<td>Fuel Cap (Includes Gasket)</td>
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<td>M50924-08</td>
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<td>HA3012</td>
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<td>103409-01</td>
<td>Washer, Wave Spring</td>
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<td>102042-01</td>
<td>Fan</td>
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<td>099157-01</td>
<td>Rivet</td>
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<td>Motor and Pump Assembly</td>
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<td>Wire Assembly (Red, 18&quot;)</td>
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<td>102001-07</td>
<td>Motor</td>
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<td>M16841-57</td>
<td>Wire Assembly (Red, 6&quot;)</td>
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<td>079975-03</td>
<td>Pump Body</td>
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<td>M27417</td>
<td>Drain Plug (Includes “o” Ring)</td>
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<td>FHPF3-6C</td>
<td>Screw, #10-32 x 5/8&quot;</td>
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<td>Relief Spring</td>
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<td>Hex TPG Screw, 8-18 x 3/8&quot;</td>
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<td>10-13</td>
<td>M12461-31</td>
<td>Screw, #10-32 x 1&quot;</td>
<td>4</td>
<td>44-8</td>
<td>M16841-62</td>
<td>Fuel Valve Ground Wire</td>
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<td>10-14</td>
<td>M12244-1**</td>
<td>Output Filter</td>
<td>1</td>
<td>45</td>
<td>097785-04</td>
<td>Foam Gasket</td>
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<td>10-15</td>
<td>M1637**</td>
<td>Lint Filter</td>
<td>1</td>
<td>46</td>
<td>097657-03</td>
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<tr>
<td>10-16</td>
<td>M50820-02</td>
<td>Barb Fitting</td>
<td>1</td>
<td>47</td>
<td>104905-01</td>
<td>Knob</td>
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<td>10-17</td>
<td>M8643-2**</td>
<td>Blade</td>
<td>4</td>
<td>48</td>
<td>M10908-1</td>
<td>Screws, #6-32 x 1/4&quot;</td>
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<td>10-18</td>
<td>M12461-32</td>
<td>Screw, #10-32 x 1.12&quot;</td>
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<td>Screws, Special</td>
<td>2</td>
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<td>11</td>
<td>M50631</td>
<td>Rubber Bumper</td>
<td>2</td>
<td>50</td>
<td>M11084-27</td>
<td>Screws, #10-16 x 1/2&quot;</td>
<td>2</td>
</tr>
</tbody>
</table>

** See OPTIONAL ACCESSORIES

*** Not available as an assembly.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>HA1180</td>
<td>Air Gauge Kit</td>
</tr>
<tr>
<td>HA2210</td>
<td>Fuel Tank Filter Screen</td>
</tr>
<tr>
<td>HA3005</td>
<td>Rotor Kit (M22456-2, M2209, M8643-2)</td>
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<tr>
<td>HA3017</td>
<td>Filter Kit (M11637, M12179, M12244-1, M51150-01)</td>
</tr>
<tr>
<td>HA3020</td>
<td>Pump Kit (M27694, M10993-1, M22997, M8940)</td>
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104473

13
B200T 200,000 BTU/HR
PORTABLE FORCED AIR HEATER

PARTS LIST
Continued

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<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
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<tbody>
<tr>
<td>099650-01</td>
<td>Clip (Secures Thermostat and Power Cord Wires)</td>
<td>1</td>
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<tr>
<td>098224-48</td>
<td>General Information Decal</td>
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<tr>
<td>097644-07</td>
<td>Tradename Decal</td>
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<tr>
<td>M9900-192</td>
<td>Combustion Chamber Grounding Wire</td>
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<tr>
<td>100621-02</td>
<td>Thermostat Decal</td>
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WHEELS AND HANDLE PARTS LIST

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<th>PART DESCRIPTION</th>
<th>QTY.</th>
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<tbody>
<tr>
<td>1</td>
<td>HA2204</td>
<td>Handles</td>
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<td>2</td>
<td>M12345-33</td>
<td>Screw, #10-24 x 1 3/4&quot;</td>
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<td>3</td>
<td>M12831-3</td>
<td>Wheel Support Frame</td>
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<td>4</td>
<td>NTC-3C</td>
<td>Hex Nut, #10-24</td>
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<td>5</td>
<td>097896-04</td>
<td>Wheel</td>
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<tr>
<td>6</td>
<td>M28526</td>
<td>Cap Nut</td>
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<tr>
<td>7</td>
<td>M16801-2</td>
<td>Axle</td>
<td>1</td>
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PARTS AVAILABLE - NOT SHOWN

<table>
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<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>099650-01</td>
<td>Clip (Secures Thermostat and Power Cord Wires)</td>
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</tr>
<tr>
<td>100621-02</td>
<td>Thermostat Decal</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

- Output Rating (Btu/Hr.) 200,000
- Fuel Use Only Kerosene or No. 1 Fuel Oil
- Fuel Tank Capacity (U.S. Gal.) 13.5
- Fuel Consumption (Gal. Per Hr.) 1.4
- Pump Pressure (PSI) 6.0
- Electric Requirements 120 V/60 Hz
- Amperage (Normal Run) 4.5
- Hot Air Output (CFM) 600
- Motor RPM 3450
- Motor HP 1/4
- Shipping Weight (Approx. Lbs) 77
- Heater Weight without Fuel (Approx. Lbs) 66

MAINTENANCE KITS

<table>
<thead>
<tr>
<th>Btu/Hr</th>
<th>200,000</th>
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<tbody>
<tr>
<td>Flame-out Control Part No.</td>
<td>HA3003</td>
</tr>
<tr>
<td>Spark Plug Part No.</td>
<td>HA3012</td>
</tr>
<tr>
<td>Filter Kit Part No.</td>
<td>HA3017</td>
</tr>
<tr>
<td>Nozzle Part No.</td>
<td>100735-13</td>
</tr>
<tr>
<td>Rotor/Air Pump Kit Part No.</td>
<td>HA3005</td>
</tr>
<tr>
<td>Handle Part No.</td>
<td>HA2204</td>
</tr>
<tr>
<td>Photocell Part No.</td>
<td>HA3019</td>
</tr>
<tr>
<td>Pump Adjustment Part No.</td>
<td>HA3020</td>
</tr>
</tbody>
</table>

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting.

If so, contact DESA International’s Technical Service Department at 1-800-323-5190.
ACCESSORIES
Purchase accessories and parts from your nearest dealer or service center. If they cannot supply these accessories or parts, either contact your nearest Parts Central or DESA International for referral information. Parts Centrals are listed in the Authorized Service Center booklet supplied with heater.

DESA International
P.O. Box 90004
Bowling Green, KY
42102-9004
1-800-972-7879
Parts Department

FLAME-OUT CONTROL/PHOTOCELL TESTER - HA1170
Special tool used to test the flame-out control and photocell.

AIR GAUGE KIT - HA1180
Special tool to check pump pressure.

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

Parts Under Warranty
Contact authorized dealer from whom you purchased this product. If they cannot supply original replacement part(s), call DESA International’s Technical Service Department at 1-800-323-5190 for referral information.

When contacting your dealer or DESA International, have ready:

• your name
• your address
• model number of your heater
• how heater was malfunctioning
• purchase date

Usually, we will ask you to return the defective part to the factory.

Parts Not Under Warranty
Contact authorized dealers of this product. If they cannot supply original replacement part(s), call DESA International’s Parts Department at 1-800-972-7879 for referral information.

When calling DESA International, have ready:

• model number of your heater
• the replacement part number
WARRANTY AND REPAIR SERVICE

LIMITED WARRANTY

DESA International warrants this product and any parts thereof, to be free from defects in materials and workmanship for one (1) year from the date of first purchase when operated and maintained in accordance with instructions. This warranty is extended only to the original retail purchaser, when proof of purchase is provided.

This warranty covers only the cost of parts and labor required to restore the product to proper operating condition. Transportation and incidental costs associated with warranty repairs are not reimbursable under this warranty.

Warranty service is available only through authorized dealers and service centers.

This warranty does not cover defects resulting from misuse, abuse, negligence, accidents, lack of proper maintenance, normal wear, alteration, modification, tampering, contaminated fuels, repair using improper parts, or repair by anyone other than an authorized dealer or service center. Routine maintenance is the responsibility of the owner.

THIS EXPRESS WARRANTY IS GIVEN IN LIEU OF ANY OTHER WARRANTY EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

DESA International assumes no responsibility for indirect, incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations or exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WARRANTY SERVICE

Should your heater require service, return it to your nearest authorized service center. Proof of purchase must be presented with the heater. The heater will be inspected. A defect may be caused by faulty materials or workmanship. If so, DESA International will repair or replace the heater without charge.

REPAIR SERVICE

Return the heater to your nearest authorized service center. Repairs not covered by the warranty will be billed at standard prices.

Illustrated parts lists can be obtained free of charge. Send a self addressed stamped envelope to the address listed below. List the heater model number and the date located in the lower right corner of this page. A service manual may be purchased from the address listed below. Send a check for $5.00 payable to DESA International.

When writing for information regarding your heater, be sure to include the model number and serial number as shown on the model plate.

Each Service Center is independently owned and operated.

We reserve the right to amend these specifications at any time without notice.