PORTABLE FORCED AIR HEATERS
OWNER’S MANUAL

RM115 - 115,000 Btu/Hr
and RM155 - 155,000 Btu/Hr
H.S.I. Series

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.
SAFETY INFORMATION

⚠️ WARNINGS

**IMPORTANT:** Read this Owner’s Manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

**DANGER:** Carbon monoxide poisoning may lead to death!

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, and/or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once!** Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, persons with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Make certain you read and understand all Warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

- 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.

- 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 in well-ventilated 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.
  - When used with 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.

**Warning to New York City Residents For Use Only At Construction Sites** in accordance with applicable NYC codes under NYCFD certificate of approval #4803, #4899, #4908, #4909, or #4934.

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.
ASSEMBLY

These models are furnished with wheels and a front handle. Some models are furnished with a rear handle also. Wheels, handle(s), 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 1).

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 front handle (and rear handle if provided) on top of fuel tank flange. Insert screws through handle(s), 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.

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**Figure 1 - Wheel and Handle Assembly**
## 115,000 and 155,000 Btu/Hr H.S.I. Series PORTABLE FORCED AIR HEATERS

### PRODUCT IDENTIFICATION

- **Fuel Tank**
- **Fuel Cap**
- **Fuel Filter**
- **Air Line**
- **Air For Fuel System**
- **Air Intake Filter**
- **Ignition Control Assembly**
- **Combustion Chamber**
- **Ignitor**
- **Motor**
- **Fan**
- **Air Pump**
- **Air Output Filter**
- **Air For Combustion And Heating**
- **Air For Fuel System**
- **Lower Shell**
- **Upper Shell**
- **Power Cord**
- **Ignition Control Assembly (assembly on inside of side cover)**
- **Figure 2**

### THEORY OF OPERATION

**The Fuel System:** The air pump forces air through the air line. The air is then pushed through the 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 ignition control assembly provides power to the ignitor. This ignites the fuel/air mixture in the combustion chamber.

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

### 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 a clogged fuel filter and/or nozzle.

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

### VENTILATION

**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 155,000 Btu/Hr heater requires one of the following:
- a two-car garage door (16 feet wide opening) raised 4 inches
- a single-car garage door (9 feet wide opening) raised 7 inches
- two 30 inch wide windows raised 12 inches

### Figure 3 - Cross Section Operational View
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.

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

5. Plug extension cord into standard 120 volt/60 hertz, three-hole, grounded outlet. Note: Ignitor will preheat for five seconds then heater will start.

TO STOP HEATER
Unplug extension cord from outlet.

TO RESET HEATER
1. Unplug extension cord from outlet and wait 10 seconds (two minutes if heater has been running).
2. Plug extension cord into standard 120 volt/60 hertz, three-hole, grounded outlet. Note: Ignitor will preheat for five seconds then heater will start.

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

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

<table>
<thead>
<tr>
<th>Item</th>
<th>How Often</th>
<th>How To</th>
</tr>
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<tbody>
<tr>
<td>Fuel tank</td>
<td>Flush every 150–200 hours of operation or as needed</td>
<td>See Storing, Transporting, or Shipping, above</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 7</td>
</tr>
<tr>
<td>Air intake filter</td>
<td>Wash and dry with soap an water every 500 hours of operation or replace as needed</td>
<td>See Air Output, Air Intake, and Lint Filters, page 7</td>
</tr>
<tr>
<td>Fuel filter</td>
<td>Clean twice a heating season or replace as needed</td>
<td>See Fuel Filter, page 8</td>
</tr>
<tr>
<td>Ignitor</td>
<td>No maintenance required</td>
<td></td>
</tr>
<tr>
<td>Fan blades</td>
<td>Clean each season or as needed</td>
<td>See Fan, page 7</td>
</tr>
<tr>
<td>Motor</td>
<td>Not required/permanently lubricate</td>
<td></td>
</tr>
</tbody>
</table>
# PORTABLE FORCED AIR HEATERS

## TROUBLESHOOTING

### 115,000 and 155,000 Btu/Hr H.S.I. Series

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

*Note: For additional help, visit DESA International’s Technical Service web site at www.desatech.com.*

<table>
<thead>
<tr>
<th>FAULT CONDITION</th>
<th>POSSIBLE CAUSE</th>
<th>REMEDY</th>
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</thead>
<tbody>
<tr>
<td>Motor does not start five seconds after heater is plugged in</td>
<td>1. No power to heater</td>
<td>1. Check circuit breaker in electrical panel</td>
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<tr>
<td></td>
<td>2. Bad electrical connection between motor and ignition control assembly or ignition control assembly and power cord</td>
<td>2. Check all electrical connections. See Wiring Diagram, page 11</td>
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<tr>
<td></td>
<td>4. Binding pump rotor</td>
<td>4. If fan does not turn freely, see Pump Rotor, page 10</td>
</tr>
<tr>
<td></td>
<td>5. Defective ignition control assembly</td>
<td>5. Replace ignition control assembly</td>
</tr>
<tr>
<td></td>
<td>6. Defective motor</td>
<td>6. Replace motor</td>
</tr>
<tr>
<td>Motor starts and runs but heater does not ignite</td>
<td>1. No fuel in tank</td>
<td>1. Fill tank with kerosene</td>
</tr>
<tr>
<td></td>
<td>2. Pump pressure incorrect</td>
<td>2. See Pump Pressure Adjustment, page 7</td>
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<tr>
<td></td>
<td>4. Obstruction in nozzle assembly</td>
<td>4. See Nozzle Assembly, page 9</td>
</tr>
<tr>
<td></td>
<td>5. Water in fuel tank</td>
<td>5. Drain and flush fuel tank with clean kerosene. See Storing, Transporting, or Shipping, page 5</td>
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<tr>
<td>Heater ignites but ignition control assembly shuts heater off after a short period of time</td>
<td>1. Pump pressure incorrect</td>
<td>1. See Pump Pressure Adjustment, page 7</td>
</tr>
<tr>
<td></td>
<td>2. Dirty air intake, air output, and/or lint filter</td>
<td>2. See Air Output, Air Intake, and Lint Filters, page 7</td>
</tr>
<tr>
<td></td>
<td>4. Obstruction in nozzle assembly</td>
<td>4. See Nozzle Assembly, page 9</td>
</tr>
<tr>
<td></td>
<td>5. Photocell assembly not properly installed (not seeing the flame)</td>
<td>5. Make sure photocell boot is properly seated in bracket</td>
</tr>
<tr>
<td></td>
<td>6. Dirty photocell lens</td>
<td>6. Clean photocell lens</td>
</tr>
<tr>
<td></td>
<td>7. Bad electrical connection between photocell and ignition control assembly</td>
<td>7. Check electrical connections. See Wiring Diagram, page 11</td>
</tr>
<tr>
<td></td>
<td>8. Defective photocell</td>
<td>8. Replace photocell</td>
</tr>
<tr>
<td></td>
<td>9. Defective ignition control assembly</td>
<td>9. Replace ignition control assembly</td>
</tr>
</tbody>
</table>

### WARNING: High voltage!

**www.desatech.com**
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 above).
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 5).
7. Place setscrew on flat of shaft. Tighten setscrew firmly (40-50 inch-pounds).
8. Replace fan guard and upper shell.

PUMP PRESSURE ADJUSTMENT
1. Remove pressure gauge plug from filter end cover (see Figure 7).
2. Install accessory pressure gauge (part number HA1180).
4. Using a flat blade screwdriver, adjust pressure. Turn relief valve to right to increase the pressure. Turn relief valve to left to decrease the pressure. Set pump pressure at 5.3 PSI for 115,000 Btu models and 5.4 PSI for 155,000 Btu models.
5. Stop heater (see Operation, page 5).
6. Remove pressure gauge. Replace pressure gauge plug in filter end cover.

AIR OUTPUT, AIR INTAKE, AND LINT FILTERS
1. Remove upper shell (see Upper Shell Removal).
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 5).
6. Replace filter end cover.
7. Replace fan guard and upper shell. IMPORTANT: Do not oil filters.

Figure 4 - Upper Shell Removal

Figure 5 - Fan Cross Section

Figure 7 - Pressure Gauge Plug Removal

Figure 6 - Air Output, Air Intake, and Lint Filters

Figure 8 - Adjusting Pump Pressure
115,000 and 155,000 Btu/Hr H.S.I. Series PORTABLE FORCED AIR HEATERS

SERVICE PROCEDURES Continued

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

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

**IGNITOR**
1. Remove upper shell and fan guard (see page 7).
2. Remove fan (see page 7).
3. Remove 4 side cover screws with a 5/16” nut driver. Remove side cover (see Figure 9).
4. Disconnect ignitor wires (yellow) from ignition control assembly (see Figure 10). Pull the ignitor wires up through the hole in the lower shell.
5. Disconnect fuel line hose and air line hose. Remove photocell from photocell bracket (see Figure 10).
6. Remove combustion chamber. Stand combustion chamber on end with nozzle adapter bracket on top (see Figure 11).
7. Remove ignitor screw with a 1/4” nut driver. Carefully remove ignitor from nozzle adapter bracket.

**CAUTION**: Do not bend or strike ignitor element. Handle with care.

8. Carefully remove replacement ignitor from styrofoam packing.
9. Carefully guide ignitor into opening in nozzle adapter bracket. Do not strike ignitor element. Attach ignitor to nozzle adapter bracket with screw using a 1/4” nut driver (see Figure 10). Torque 8 to 15 in. lbs. Do not over torque.
10. Replace combustion chamber.
11. Route the ignitor wires back down through the hole in the lower shell. Connect wires to the ignition control assembly.
12. Replace side cover (see Figure 9).
14. Replace photocell in photocell bracket.
15. Replace fan (see page 7).
16. Replace fan guard and upper shell (see page 7).

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Figure 9 - Fuel Filter Removal

Figure 10 - Disconnecting Ignitor Wires from Ignition Control Assembly

Figure 11 - Ignitor Replacement
SERVICE PROCEDURES

Continued

NOZZLE ASSEMBLY

1. Remove upper shell (see page 7).
2. Remove fan (see page 7).
3. Remove fuel and air line hoses from nozzle assembly (see Figure 12 or 13).
4. Turn nozzle assembly 1/4 turn to left and pull toward motor to remove (see Figure 14).
5. Place plastic hex-body into vise and lightly tighten.
6. Carefully remove nozzle from the nozzle adapter using 5/8" socket wrench (see Figure 15).
7. Blow compressed air through face of nozzle. This will free any dirt in nozzle area.
8. Inspect nozzle seal for damage.
9. Replace nozzle into nozzle adapter until nozzle seats. Tighten 1/3 turn more using 5/8" socket wrench (40-45 inch-pounds). See Figure 15.
10. Attach nozzle assembly to burner strap.
12. Replace fan (see page 7).
13. Replace fan guard and upper shell (see page 7).

FUEL AND AIR LINE REPLACEMENT AND PROPER ROUTING

1. Remove upper shell (see page 7).
2. Remove side cover screws using 5/16" nut driver.
3. Remove side cover.
4. Inspect fuel and air line hoses for cracks and/or holes. If fuel line hose is damaged, disconnect from nozzle adapter (see Figure 12 or 13) and from fuel filter (see page 8). If air line hose is damaged, disconnect from nozzle adapter (see Figure 12 or 13) and from barb fitting on pump end cover (see Figure 16).
5. Install new air and/or fuel line. Attach one end of air line hose to barb fitting on pump end cover (see Figure 16) and the other end to nozzle adapter (see Figure 12 or 13). Attach one end of fuel line hose to fuel filter (see page 8) and the other end to nozzle adapter (see Figure 12 or 13).

For 115,000 Btu heater, route air and fuel line approximately as shown in Figure 12.

Note: Hoses are not to be touching photocell bracket.

For 155,000 Btu heater, route air and fuel line approximately as shown in Figure 13.

Note: Hoses are not to be touching photocell bracket.

6. Replace side cover.
7. Replace upper shell and fan guard (see page 7).
SERVICE PROCEDURES

Continued

PUMP ROTOR
(Procedure if Rotor is Binding)
1. Remove upper shell (see page 7).
2. Remove filter end cover screws using 5/16" nut-driver.
3. Remove filter end cover and air filters (see Figure 17).
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 insure 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 7).
   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.

IGNITION CONTROL ASSEMBLY
(Procedure for Replacing Fuse)

WARNING: High Voltage
1. Unplug heater
2. Remove side cover screws (4) using 5/16" nut-driver to expose ignition control assembly.
3. Remove fuse cover (see Figure 20).
4. Remove fuse from fuse clips.
5. Replace fuse with fuse of the same type and rating (GMA-10). Do not substitute a fuse with a higher current rating.
6. Replace fuse cover.
7. Replace side cover.
WIRING DIAGRAM

Figure 21 - Wiring Diagram

SPECIFICATIONS

Output Rating (Btu/Hr) 115,000 155,000
Fuel Use Only Kerosene or No. 1 Fuel Oil
Fuel Tank Capacity (U.S. Gal.) 9.0 13.5
Fuel Consumption (Gal. Per Hr.) .85 1.1
Electric Requirements 120 V/60 Hz
Amperage (Normal Run) 3.6 3.6
Hot Air Output (CFM) 490 500
Motor RPM 3440 3440
Motor HP 1/5 1/5
Shipping Weight (Approximate Pounds) 58 67
Heater Weight without Fuel (Approximate Pounds) 49 56
### PARTS LIST

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.

#### RM115

<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>098511-66</td>
<td>Upper Shell</td>
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<td>13</td>
<td>101695-01</td>
<td>Button Plug</td>
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<td>2</td>
<td>100647-01</td>
<td>Screw, #10-16 x 1/2&quot;</td>
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<td>14</td>
<td>104068-02</td>
<td>Ignition Control Assembly</td>
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<td>3</td>
<td>098512-54</td>
<td>Combustion Chamber (RM115)</td>
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<td>NTC-4C</td>
<td>Hex Lock Nut, 1/4-20</td>
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<td>098512-59</td>
<td>Combustion Chamber (RM155)</td>
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<td>M51114-01</td>
<td>Fan Guard</td>
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<td>Photocell Bracket (RM115)</td>
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<td>M27417</td>
<td>Drain Plug (Includes &quot;o&quot; Ring)</td>
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** See OPTIONAL ACCESSORIES

*** Not available as an assembly.

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** See OPTIONAL ACCESSORIES

*** Not available as an assembly.
## 115,000 and 155,000 Btu/Hr H.S.I. Series PORTABLE FORCED AIR HEATERS

### PARTS LIST

#### PARTS AVAILABLE - NOT SHOWN

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<th>DESCRIPTION</th>
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### WHEELS AND HANDLE PARTS LIST

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<td>2 (if equipped)</td>
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<td>HA2204</td>
<td>Handle (155 Btu)</td>
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**Diagram:**

1. Handle
2. Screw
3. Wheel Support Frame
4. Hex Nut
5. Wheel
6. Cap Nut
7. Axle
REPLACEMENT PARTS

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

PARTS UNDER WARRANTY

Contact authorized dealers of this product. If they can’t supply original replacement part(s), call DESA International’s Technical Service Dept. at 1-800-323-5190.

When calling DESA International, have ready:
- your name
- your address
- model and serial numbers 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 can’t supply original replacement part(s), call DESA International’s Parts Department at 1-800-972-7879 for referral information. Parts Centrals are listed in the Authorized Service Center booklet supplied with heater.

When calling DESA International, have ready:
- model number of your heater
- the replacement part number

TECHNICAL SERVICE

You may have further questions about operation or troubleshooting. If so, contact DESA International’s Technical Service Dept. at 1-800-323-5190.

You can also visit DESA International’s Technical Service web site at www.desatech.com.

ACCESSORIES

Purchase accessories and parts from your nearest dealer or service center. If they can not 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.

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

THERMOSTAT KIT - HA1210

Keeps your building at the temperature you select day and night. Helps economize on fuel.

AIR GAUGE KIT - HA1180

Special tool to check pump pressure.

IGNITION CONTROL ASSEMBLY/PHOTOCELL TESTER - HA1170

Special tool used to test the ignition control assembly and photocell.
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.

KEEP THIS WARRANTY

Model No. __________________________
Serial No. __________________________
Date of Purchase ____________________

(To be filled in by purchaser)

DESA INTERNATIONAL
Corporate Headquarters
2701 Industrial Drive
P.O. Box 90004
Bowling Green, KY 42102-9004
www.desatech.com

For information, write: DESA International, P.O. Box 90004
Bowling Green, Kentucky 42102-9004 ATTN: Customer Service Department
When writing, always include model number and serial number.