PORTABLE FORCED AIR HEATER
OWNER’S MANUAL

Heater Sizes:
35,000, 50,000, and 55,000 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.
PORTABLE FORCED AIR HEATERS

SAFETY INFORMATION

WARNINGS

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.
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.

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.
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.

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 two-square-foot opening of fresh, outside air for each 55,000 Btu/Hr rating. Provide extra fresh air if more heaters are being used.

Example: A 55,000 Btu/Hr heater requires one of the following:
- a two-car garage door (16-feet-wide opening) raised 1 1/2 inches
- a single-car garage door (9-feet-wide opening) raised 2 1/2 inches
- two windows (30-inches-wide opening) raised 4 1/2 inches
PORTABLE FORCED AIR HEATERS

35,000, 50,000, and 55,000 Btu/hr H.S.I. Series

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.

TO STOP HEATER
Unplug extension cord from outlet.

TO RESTART 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.

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.

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, 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 6.</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 6.</td>
</tr>
<tr>
<td>Fuel filter</td>
<td>Clean twice a heating season or replace as needed.</td>
<td>See Fuel Filter, page 7.</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 6.</td>
</tr>
<tr>
<td>Motor</td>
<td>Not required/permanently lubricated.</td>
<td></td>
</tr>
</tbody>
</table>

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.

STORING, TRANSPORTING, OR SHIPPING

Note: If shipping, transport companies require fuel tanks to be empty.
1. Drain fuel tank. Drain fuel through fuel cap opening. Be sure all fuel is removed.
2. 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.
3. Replace fuel cap. Properly dispose of old and dirty fuel. Check with local automotive service stations that recycle oil.
4. 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.
## OWNER’S MANUAL

### TROUBLESHOOTING

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

<table>
<thead>
<tr>
<th>FAULT CONDITION</th>
<th>POSSIBLE CAUSE</th>
<th>REMEDY</th>
</tr>
</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>
</tr>
<tr>
<td></td>
<td>2. Bad electrical connection between motor and ignition control assembly or ignition assembly and power cord</td>
<td>2. Check all electrical connections. See <em>Wiring Diagrams</em>, page 10.</td>
</tr>
<tr>
<td></td>
<td>3. Binding pump rotor</td>
<td>3. If fan does not turn freely, see <em>Pump Rotor</em>, page 8.</td>
</tr>
</tbody>
</table>

| Motor starts and runs but heater does not ignite. | 1. No fuel in tank | 1. Fill tank with kerosene. |

**WARNING:** High voltage!

| | 7. Defective ignitor | 7. Replace ignitor, see page 7. |

| | 2. Dirty air intake, air output, and/or lint filter | 2. See *Air Output, Air Intake, and Lint Filters*, page 6. |
| | 5. Photocell assembly not properly installed (not seeing the flame) | 5. Make sure photocell boot is properly seated in bracket. |

**WARNING:** High voltage!

PORTABLE FORCED AIR HEATERS

35,000, 50,000, And 55,000 Btu/Hr H.S.I. Series

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 4).
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 **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 4).
6. Replace filter end cover.
7. Replace fan guard and upper shell.

**IMPORTANT:** Do not oil filters.

**PUMP PRESSURE ADJUSTMENT**

1. Remove pressure gauge plug from filter end cover.
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 as follows:
   - 35 Model: 3.0 psi
   - 50 Model: 3.6 psi
   - 55 Model: 3.6 psi
5. Remove pressure gauge. Replace pressure gauge plug in filter end cover.

**IMPORTANT:** Do not oil filters.
OWNER’S MANUAL

SERVICE PROCEDURES
Continued

FUEL FILTER
1. Remove 4 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 and fuel filter 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 6).
2. Remove fan (see page 6).
3. Remove 4 side cover screws with a 5/16” nut driver. Remove side cover (see Figure 8).
4. Disconnect ignitor wires (gray) from ignition control assembly (see Figure 9). 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 9).
6. Remove combustion chamber. Stand combustion chamber on end with nozzle adapter bracket on top (see Figure 10).
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 10 to 20 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. See Wiring Diagrams, page 10, for correct terminal locations.
12. Replace side cover (see Figure 8).
13. Connect and route fuel line hose and air line hose to nozzle adapter (see Figure 9).
14. Replace photocell in photocell bracket. Route wires as shown in Figure 11, page 8.
15. Replace fan (see page 6).
16. Replace fan guard and upper shell (see page 6).
PORTABLE FORCED AIR HEATERS

SERVICE PROCEDURES

Continued

NOZZLE

1. Remove upper shell (see page 6).
2. Remove fan (see page 6).
3. Remove fuel and air line hoses from nozzle assembly (see Figure 11).
4. Turn nozzle adapter 1/4 turn to left and pull toward motor to remove (see Figure 13).
5. Place nozzle adapter into vise and lightly tighten.
6. Carefully unscrew nozzle from the nozzle adapter using 5/8" socket wrench (see Figure 14).
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 inches pounds).
10. Attach nozzle assembly to burner strap.
11. Attach and route fuel and airline hoses to nozzle assembly as shown (see Figure 11). Route photocell wires as shown in Figure 11.
12. Replace fan (see page 6).
13. Replace fan guard and upper shell (see page 6).

PUMP ROTOR (Procedure if Rotor is Binding)

1. Remove upper shell (see page 6).
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 15).

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 Pump Pressure Adjustment, page 6).

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 16).
15. Reinstall insert and rotor.
16. Perform steps 10 through 12 above.
SPECIFICATIONS

Output Rating (Btu/Hr) 35,000 50,000 55,000
Fuel Use Only Kerosene or No. 1 Fuel Oil
Fuel Tank Capacity (U.S. Gal.) 3.0 4.0 5.0
Fuel Consumption (Gal. Per Hr.) .26 .40 .40
Electric Requirements 120 V/60 Hz (All Models)
Amperage (Normal Run) 2.0 2.0 2.0
Motor Speed (RPM) 1725 1725 1725
Motor Horsepower (hp) 1/15 1/15 1/15
Hot Air Output (CFM) 165 175 175
Pump Pressure (psi) 3.0 3.6 3.6
Shipping Weight (Approximate Pounds) 32 33 33
Heater Weight without Fuel (Approximate Pounds) 28 29 29

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.

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 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 can’t supply original replacement part(s), call DESA International’s Parts Dept. at 1-800-972-7879 for referral information.

When calling DESA International, have ready
- model number of your heater
- the replacement part number
PORTABLE FORCED AIR HEATERS

WIRING DIAGRAMS

Figure 17 - Wiring Diagram For Heaters Using 102350-01 Ignition Control Assembly

Figure 18 - Wiring Diagram For Heaters Using 104040-02 Ignition Control Assembly
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

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

THERMOSTAT KIT - HA1210
Keeps your building at the temperature you select day and night. Helps economize on fuel.

HEAVY DUTY WHEELS AND HANDLE KIT - HA1202
For heavy duty applications. Makes your heater even more portable and convenient.

IGNITION CONTROL ASSEMBLY/PHOTOCCELL TESTER - HA1170
Special tool used to test the ignition control assembly and photocell.

STANDARD WHEELS AND HANDLE KIT - HA1206
Makes heater even more portable and convenient. Easy to assemble.
PORTABLE FORCED AIR HEATERS

35,000, 50,000, And 55,000 Btu/Hr H.S.I. Series

ILLUSTRATED PARTS BREAKDOWN
REM35B
R35D
B50H
REM50C
R55A
REM55A

Motor and Pump Assembly
## 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.

**REM35B, R35D, B50H, REM50C, R55A, REM55A**

<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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<tr>
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<td>M51104-01</td>
<td>Handle</td>
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<td>097461-03AA</td>
<td>Side Cover</td>
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<td>101205-01</td>
<td>Motor Bracket</td>
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<td>098511-67</td>
<td>Upper Shell (black)</td>
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<td>M30865-02</td>
<td>Bushing</td>
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<td>3</td>
<td>M11084-29</td>
<td>Screw, #10-16 x 3/4&quot;</td>
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<td>M11271-8</td>
<td>Clip Nut</td>
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<td>100647-01</td>
<td>Screw, #10-16 x 1/2&quot;</td>
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<td>M50104-02</td>
<td>Bushing</td>
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<td>5</td>
<td>098512-47</td>
<td>Combustion Chamber (35 model)</td>
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<td>24</td>
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<td>Screw, #10-16 x 3/8&quot;</td>
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<td>Screw, #6-32 x 3/8&quot;</td>
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<td>103154-03</td>
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<td>M29652-04</td>
<td>Rubber Airline</td>
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<td>M16656-23</td>
<td>Combustion Chamber (50/55 models)</td>
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<td>Fuel Line (35 model)</td>
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<td>9</td>
<td>HA3006</td>
<td>Nozzle (35 model)</td>
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<td>28</td>
<td>M29652-05</td>
<td>Fuel Line (50/55 models)</td>
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<td>100735-17</td>
<td>Nozzle (50/55 models)</td>
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<td>29</td>
<td>M29652-05</td>
<td>Fuel Filter (35 model)</td>
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<td>9-2</td>
<td>102548-01</td>
<td>Ignitor Kit</td>
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<td>M29652-05</td>
<td>Fuel Filter (50 model)</td>
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<td>079980-01</td>
<td>Nozzle Adapter</td>
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<td>31</td>
<td>M29652-05</td>
<td>Fuel Filter (55 model)</td>
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<td>102336-01</td>
<td>Nozzle Adapter Bracket</td>
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<td>Button Plug</td>
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<td>104023-01</td>
<td>Screw, #6-32 x 3/4&quot;</td>
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<td>M29652-05</td>
<td>Ignition Control Assembly</td>
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<td>10</td>
<td>M11084-26</td>
<td>Screw, #10-16 x 7/8&quot;</td>
<td>2</td>
<td>34</td>
<td>M29652-05</td>
<td>Fuel Cap (Includes Gasket)</td>
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<td>M30864</td>
<td>Fan</td>
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<td>M29652-05</td>
<td>Fuel Tank (35 model)</td>
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<td>M51108-01</td>
<td>Shell Heat-Shield</td>
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<td>102001-01</td>
<td>Motor</td>
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<td>12-2</td>
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<td>M22009**</td>
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<td>M22456-1**</td>
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<td>M29609</td>
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<td>12-9</td>
<td>M12461-31</td>
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<td>M27694**</td>
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<td>12-11</td>
<td>M10993-1**</td>
<td>Pressure Relief Spring</td>
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<td>12-12</td>
<td>M22997**</td>
<td>Plug</td>
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<td>12-13</td>
<td>M8940**</td>
<td>Steel Ball, 1/4&quot; Diameter</td>
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<td>12-14</td>
<td>M29612-01**</td>
<td>Output Filter</td>
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<td>12-15</td>
<td>M12461-31</td>
<td>Screw, #10-32 x 1&quot;</td>
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<td>12-16</td>
<td>M50016</td>
<td>Elbow, 90°</td>
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<td>12-17</td>
<td>M8643**</td>
<td>Blade (35 model)</td>
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<td>M8643-2**</td>
<td>Blade (50/55 models)</td>
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<td>12-18</td>
<td>FHPF3-5C</td>
<td>Screw, #10-32 x 5/8&quot; (35 model)</td>
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<td>FHPF3-6C</td>
<td>Screw, #10-32 x 3/4&quot; (50/55 models)</td>
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<td>13</td>
<td>M51105-01</td>
<td>Fan Guard</td>
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<td>14</td>
<td>098219-31</td>
<td>Power Cord</td>
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<td>M11143-1</td>
<td>Strain Relief Bushing</td>
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<td>NTC-4C</td>
<td>Hex Lock Nut, 1/4-20</td>
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<td>17</td>
<td>M11084-26</td>
<td>Screw, #10-16 x 3/8&quot;</td>
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** See OPTIONAL ACCESSORIES

### OPTIONAL ACCESSORIES

- **HA1210**: Hang-up Thermostat
- **HA1202**: Heavy Duty Wheels and Handle Kit
- **HA1206**: Standard Wheels and Handle Kit
- **HA1180**: Air Gauge Kit
- **HA2210**: Fuel Tank Filter Screen
- **HA3004**: Rotor Kit (M22456-1, M22009, M8643) 35 model
- **HA3005**: Rotor Kit (M22456-2, M22009, M8643-2) 50/55 models
- **HA3014**: Filter Kit (M29632, M29633, M29612-01)
- **HA3020**: Pump Kit (M27694, M10993-1, M22997, M8940)

** Part available - Not shown**

- **097204-01**: Tradename Decal (R35D) 2
- **097204-08**: Tradename Decal (R55A) 2
- **097764-01**: Tradename Decal (REM35B) 2
- **097764-02**: Tradename Decal (REM50C) 2
- **097764-05**: Tradename Decal (REM55A) 2
- **097646-01**: Tradename Decal (B50H) 2
- **098493-01**: General Information Decal 1
- **103814-01**: Wire Tie 1

** See OPTIONAL ACCESSORIES

*** Not available as an assembly.**
WARRANTY AND REPAIR SERVICE

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. Each Service Center is independently owned and operated. Repairs not covered by the warranty will be billed at standard prices. We reserve the right to amend these specifications at any time without notice.

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.

For information about this warranty write:

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

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.

Model No. ____________________________
Serial No. ____________________________
Date of Purchase ______________________

(To be filled in by purchaser)