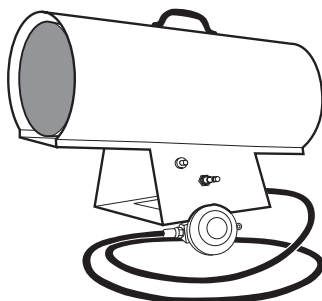


# DESA™

## HEATING PRODUCTS

### PROPANE CONSTRUCTION FORCED AIR HEATER OWNER'S MANUAL



#### 30/35/40,000 BTU/HR HEATER

**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.

#### **⚠ GENERAL HAZARD WARNING:**

Failure to comply with the precautions and instructions provided with this heater, can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, carbon monoxide poisoning and/or electrical shock.

Only persons who can understand and follow the instructions should use or service this heater.


If you need assistance or heater information such as an instructions manual, labels, etc. contact the manufacturer.


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**Save this manual for future reference.**

## SAFETY

 **WARNING:** This product contains and/or generates chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

 **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 thinner, dust particles or unknown chemicals.

 **WARNING:** Not for home or recreational vehicle use.

The heater is designed for use as a construction heater in accordance with ANSI Z83.7-CGA2.14-2000. Other standards govern the use of fuel gases and heating products for specific uses. Your local authority can advise you about these. The primary purpose of construction heaters is to provide temporary heating of buildings under construction, alteration or repair. Properly used, the heater provides safe economical heating. Products of combustion are vented into the area being heated.

We cannot foresee every use which may be made of our heaters. **Check with your local fire safety authority if you have questions about heater use.**

Other standards govern the use of fuel gases and heat producing products for specific uses. Your local authorities can advise you about these.

**Carbon Monoxide Poisoning:** Some people are more affected by carbon monoxide than others. 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!** Check for proper ventilation and have heater serviced.

**Propane Gas:** Propane gas is odorless. An odor-making agent is added to propane gas. The odor helps you detect a propane gas leak. However, the odor added to propane gas can fade. Propane gas may be present even though no odor exists.

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.

1. Install and use heater with care. Follow all local ordinances and codes. In the absence of local ordinances and codes, refer to the *Standard for Storage and Handling of Liquefied Petroleum Gas, ANSI/NFPA 58* and the *Propane Gas Installation Code, CAN/CGA B149.2*. This instructs on the safe storage and handling of propane gases.
2. Use only the electrical voltage and frequency specified on model plate. The electrical connections and grounding of the heater shall follow the *National Electric Code, ANSI/NFPA 70* or the *Canadian Electrical Code, Part 1*.
3. Electrical grounding instructions - This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle or extension cord.
4. This product has been approved for use in the Commonwealth of Massachusetts.
5. Use only a three-prong, grounded extension cord.
6. Use only the hose and factory preset regulator provided with the heater.
7. Use only propane gas set up for vapor withdrawal.
8. Provide adequate ventilation. Before using heater, provide at least a 1.5 ft<sup>2</sup> (1400 cm<sup>2</sup>) opening of fresh, outside air.
9. For indoor use only. Do not use heater outdoors.
10. Do not use heater in occupied dwellings or in living or sleeping quarters.

## SAFETY

### Continued

11. Do not use heater in basement or below ground level. Propane gas is heavier than air. If a leak occurs, propane gas will sink to the lowest possible level.
12. Keep appliance area clear and free from combustible materials, gasoline, paint thinner and other flammable vapors and liquids.
13. Do not use heater in areas with high dust content. Dust is combustible.
14. Minimum heater clearances from combustibles: Outlet: 6 Ft. (1.83 m), Sides: 2 Ft. (0.61 m), Top: 6 Ft. (1.83 m), Rear: 2 Ft. (0.61 m)
15. Keep heater at least six feet from propane tank(s). Do not point heater at propane tank(s) within 20 feet.
16. Keep propane tank(s) below 100° F (37.8° C).
17. Check heater for damage before each use. Do not use a damaged heater.
18. Check hose before each use of heater. If highly worn or cut, replace with hose specified by manufacturer before using heater.
19. Locate heater on stable and level surface if heater is hot or operating.
20. Not intended for use on finished floors.
21. Never block air inlet (rear) or air outlet (front) of heater.
22. Keep heater away from strong drafts, water spray, rain or dripping water.
23. Do not leave heater unattended.
24. Keep children and animals away from heater.
25. Never move, handle or service a hot, operating or plugged-in heater. Severe burns may result. You must wait 15 minutes after turning heater off.
26. To prevent injury, wear gloves when handling heater.
27. Never attach duct work to front or rear of heater.
28. Do not alter heater. Keep heater in its original state.
29. Do not use heater if altered.
30. Turn off propane supply and unplug heater when not in use.
31. Use only original replacement parts. This heater must use design-specific parts. Do not substitute or use generic parts. Improper replacement parts could cause serious or fatal injuries.

## UNPACKING

1. Remove all packing items applied to heater for shipment. Keep plastic cover caps (attached to inlet connector and hose/regulator assembly) for storage.
2. Remove all items from carton.
3. Check all items for shipping damage. If heater is damaged, promptly inform dealer where you bought heater.

## PRODUCT IDENTIFICATION

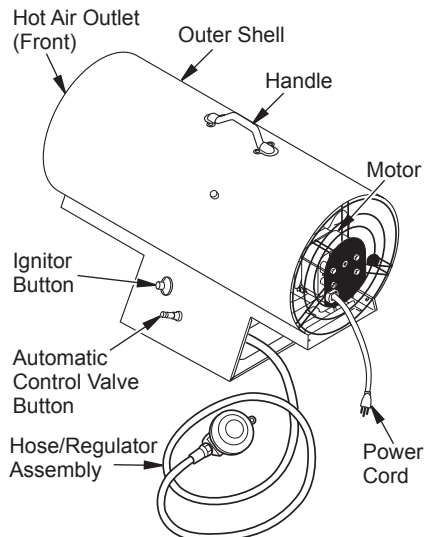


Figure 1 - 35,000 Btu/Hr Model Shown

## THEORY OF OPERATION

**The Fuel System:** The hose/regulator assembly attaches to the propane gas supply. This provides fuel to the heater.

**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 piezo ignitor lights the burner.

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

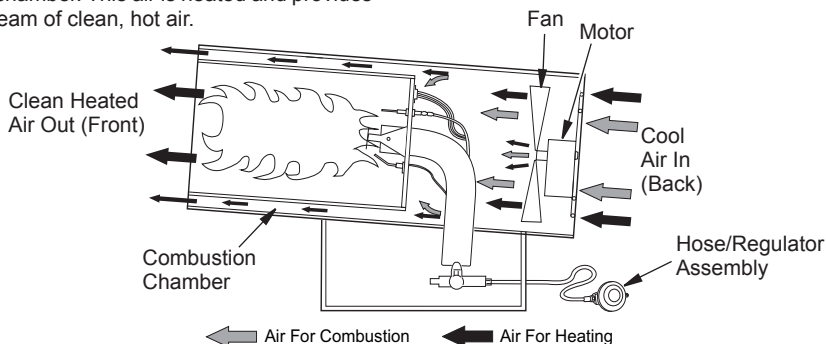


Figure 2 - Cross Section Operational View

## PROPANE SUPPLY

Propane gas and propane tank(s) are to be furnished by the user.

Use this heater only with a propane vapor withdrawal supply system. See Chapter 5 of the *Standard for Storage and Handling of Liquefied Petroleum Gas, ANSI/NFPA 58* and/or *CAN/CGA B149.2*. Your local library or fire department will have this booklet.

The amount of propane gas ready for use from propane tanks varies. Two factors decide this amount:

1. The amount of propane gas in tank(s)
2. The temperature of tank(s)

This heater is designed to operate with a minimum 20 lb (9 kg) propane tank. You may need two or more tanks or one larger tank in colder weather. It is recommended you use a 100 lb (45 kg) tank for longer operation. See chart below. Less gas is vaporized at lower temperatures. Your local propane gas dealer will help you select the proper supply system. The minimum surrounding air temperature rating for each heater is 0° F (-18° C).

Average Temp At Tank Location	No. Of Tanks 100 lb (45 kg)
Above 0° F (-18° C)	1
Below 0° F (-18° C)	2

## INSTALLATION

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

**⚠ WARNING:** Test all gas piping and connections for leaks after installation or servicing. Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

1. Provide propane supply system (see Propane Supply).

# INSTALLATION

## Continued

2. Connect POL fitting on hose/regulator assembly to propane tank(s). Turn POL fitting counterclockwise into threads on tank. Tighten firmly using wrench. **IMPORTANT:** Position regulator so that hose leaving the regulator is in a horizontal position (see Figure 3, page 5). This places the regulator vent in the proper position to protect it from the weather.
3. Connect hose to valve inlet (see Figure 4). Tighten firmly using a wrench. **IMPORTANT:** Use extra hose or piping if needed. Install extra hose or piping between hose/regulator assembly and propane tank. You must use the regulator supplied with heater.
4. Open propane supply valve on propane tank(s) slowly. *Note: If not opened slowly, excess-flow check valve on propane tank will stop gas flow. You may hear a click from the excess-flow check valve closing. If this happens, reset the excess-flow check valve by closing propane supply valve and open again slowly.*
5. Check all connections for leaks. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak that must be corrected.
6. Close propane supply valve.

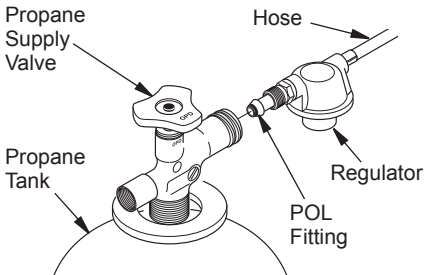


Figure 3 - Regulator Position

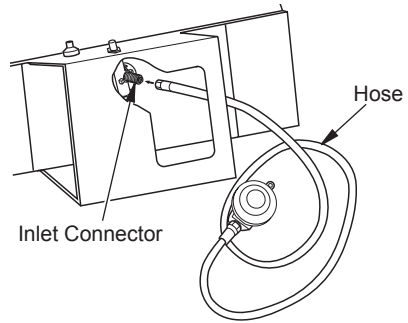


Figure 4 - Hose and Inlet Connector

# VENTILATION

**WARNING:** Provide at least a 1.5 ft<sup>2</sup> (1400 cm<sup>2</sup>) opening of fresh, outside air while running heater. If proper fresh, outside air ventilation is not provided, carbon monoxide poisoning can occur. Provide proper fresh, outside air ventilation before running heater.

# OPERATION

**WARNING:** Review and understand the warnings in the Safety 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 installation, ventilation and safety information.
2. Locate heater on stable and level surface. Make sure strong drafts do not blow into front or rear of heater.
3. Plug power cord of heater into a three-prong, grounded extension cord. Extension cord must be at least six feet long. Extension cord must be UL listed.  
**Extension Cord Wire Size Requirements**  
Up to 50 ft (15.24 m) long, use 18 AWG rated cord.  
51 to 100 ft (15.54 to 30.48 m) long, use 16 AWG rated cord.  
101 to 200 ft (30.78 to 60.96 m) long, use 14 AWG rated cord.
4. Plug extension cord into a 120 volt/60 hertz, 3-hole, grounded outlet. Motor will start. Fan will turn, forcing air out front of heater.

## OPERATION

### Continued

5. Open propane supply valve on propane tank(s) slowly. *Note: If not opened slowly, excess-flow check valve on propane tank will stop gas flow. You may hear a click from the excess-flow check valve closing. If this happens, reset the excess-flow check valve by closing propane supply valve and open again slowly.*

**⚠ WARNING:** Be sure motor and fan are running before pushing in automatic control valve button. Flames could flash outside heater if motor and fan are not running.

6. Push in and hold automatic control valve button (see Figure 5). Push piezo ignitor button (see Figure 5). Keep pushing ignitor button until the burner lights. When burner lights, keep automatic control valve button pushed in. Release button after 30 seconds. This activates the automatic control system.

*Note: If heater fails to ignite, hose may have air in it. If so, keep automatic control valve button pressed and wait 20 seconds. Release automatic control valve button and wait 20 seconds for unburned fuel to exit heater. Repeat this step.*

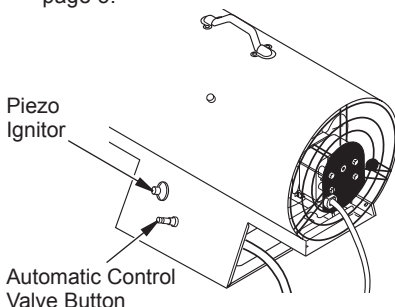
**NOTICE:** If heater is unplugged or power outage occurs while heater is running, the thermal limit device will stop fuel flow. A few seconds occur before the thermal limit device activates. During this short time, flames may appear outside the heater. This is normal. The flames will go out when thermal limit device activates.

### TO STOP HEATER

1. Tightly close propane supply valve on propane tank(s).
2. Wait a few seconds. Heater will burn gas left in supply hose.
3. Unplug heater.

### TO RESTART HEATER

1. Wait five minutes after stopping heater.
2. Repeat steps under To Start Heater, page 5.



**Figure 5 - Automatic Control Valve Button and Piezo Ignitor**

## STORAGE

**⚠ CAUTION:** Disconnect heater from propane supply tank(s).

1. Store propane tank(s) in safe manner. See Chapter 5 of *Standard for Storage and Handling of Liquefied Petroleum Gases, ANSI/NFPA 58*. Follow all local codes. Always store propane tanks outdoors.
2. Place plastic cover caps over brass fittings on inlet connector and hose/regulator assembly.

3. Store in dry, clean and safe place. Do not store hose/regulator assembly inside heater combustion chamber.
4. When taking heater out of storage, always check inside of heater. Insects and small animals may place foreign objects in heater. Remove motor and other internal parts if needed to remove foreign objects (see Service Procedures, page 7).

## MAINTENANCE



### WARNINGS

- **Never service heater while it is plugged in, connected to propane supply, operating or hot. Severe burns and electrical shock can occur.**
  - **Keep heater clear and free from combustible materials, gasoline and other flammable vapors and liquids.**
  - **Do not block the flow of combustion or ventilation air.**
1. Keep heater clean. Clean heater annually or as needed to remove dust and debris. If heater is dirty or dusty, clean heater with a damp cloth. Use household cleaners on difficult spots.
  2. Inspect heater before each use. Check connections for leaks. Apply mixture of liquid soap and water to connections. Bubbles forming show a leak. Correct all leaks at once.
  3. Inspect hose/regulator assembly before each use. If hose is highly worn or cut, replace with hose specified by manufacturer.
  4. Have heater inspected yearly by a qualified service agency.
  5. Keep inside of heater free from combustible and foreign objects. Remove motor and other internal parts if needed to clean inside of heater (see *Service Procedures*).
  6. Clean fan blades each season or as needed (see *Fan*, page 8).

## SERVICE PROCEDURES



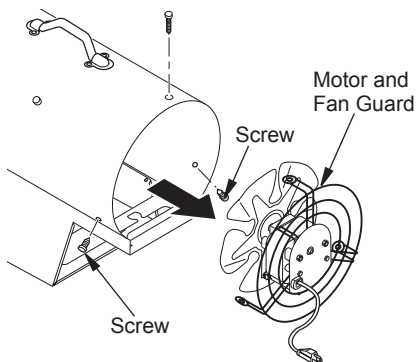
**WARNING: Never service heater while it is plugged in, connected to propane supply, operating or hot. Severe burns and electrical shock can occur.**

### ELECTRICAL SYSTEM

The entire electrical system for this heater is contained within the motor. If any part of the electrical system is damaged, you must replace motor.

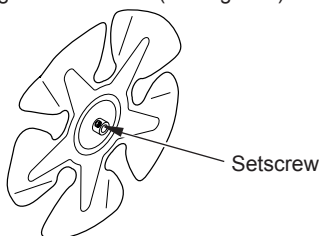
### MOTOR

1. Remove three screws that attach fan guard to heater shell.

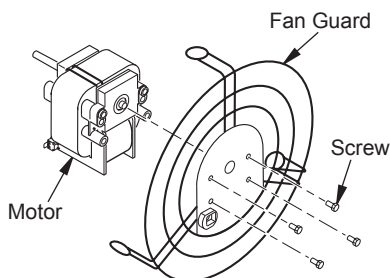


**Figure 6 - Removing Motor and Fan Guard from Heater**

2. Remove motor and fan guard from heater shell (see Figure 6).
3. Use hex wrench to loosen set screw which holds fan to motor shaft (see Figure 7). Remove fan. Be careful not to damage the fan blade pitch.
4. Remove two nuts and two screws that attach fan guard to motor using nut-driver. Remove fan guard from motor (see Figure 8).



**Figure 7 - Setscrew Location**



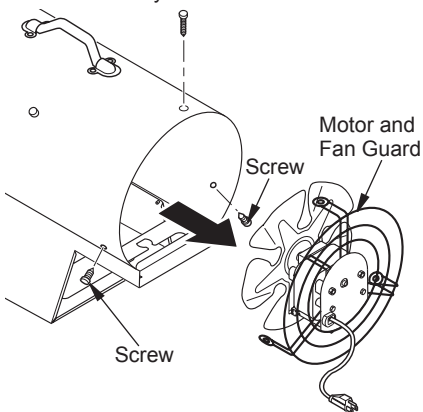
**Figure 8 - Removing or Attaching Fan Guard from Motor**



## SERVICE PROCEDURES

### Continued

5. Disconnect the green power cord wire from motor and remove black and white wire terminals.
6. Discard old motor.
7. Attach green power cord wire to motor.
8. Attach fan guard to new motor with two nuts and two screws.
9. Replace black and white terminals.
10. Place fan onto motor shaft of new motor. Make sure set screw contacts flat surface on motor shaft. Tighten set screw firmly (40-50 inch-pounds [46.08-57.60 kilogram-centimeters]).
11. Place motor and fan guard into rear of heater shell. Make sure power cord is properly located (see Figure 9).
12. Insert three screws through heater shell and into fan guard (see Figure 9). Tighten screws firmly.



**Figure 9 - Replacing Motor and Fan Guard Into Heater**

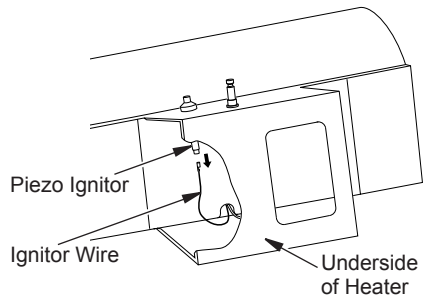
### FAN

1. Remove three screws that attach fan guard to heater shell.
2. Remove motor and fan guard from heater shell (see Figure 6, page 7).
3. Use hex wrench to loosen set screw that holds fan to motor shaft (see Figure 7, page 7).
4. Remove fan. Be careful not to damage the fan blade pitch.
- 5a. If replacing fan, remove old fan and discard. Go to step 7, column 2.
- 5b. If cleaning fan, use soft cloth moistened with kerosene or solvent.

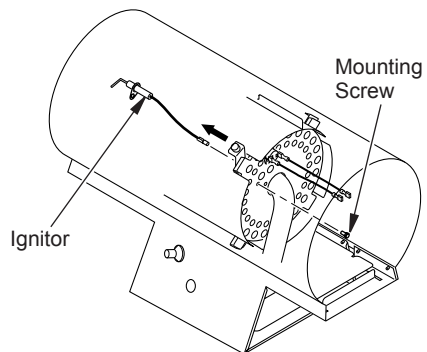
6. Dry fan thoroughly.
7. Place fan onto motor shaft. Make sure set screw contacts flat surface on motor shaft. Tighten set screw firmly (40-50 inch-pounds [46.08-57.60 kilogram-centimeters]).
8. Place motor and fan guard into rear of heater shell. Make sure power cord is properly located (see Figure 9).
9. Insert three screws through heater shell and into fan guard. Tighten screws firmly.

### IGNITOR

1. Remove motor and fan guard from heater (see *Motor*, page 7, steps 1 and 2).
2. Remove black ignitor wire from piezo ignitor. Access ignitor wire through underside of heater base (see Figure 10). Push wire up through notch in filler panel.
3. Remove ignitor mounting screw from rear head using nut-driver or standard screwdriver (see Figure 11).
4. Remove ignitor from rear head.



**Figure 10 - Removing Ignitor Wire from Piezo Ignitor**



**Figure 11 - Removing Ignitor Mounting Screw and Ignitor**



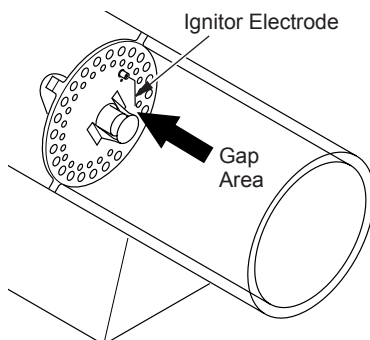
## SERVICE PROCEDURES

### Continued

5. Install new ignitor. Attach ignitor to rear head with ignitor mounting screw.
6. Run ignitor wire from new ignitor through notch in filler panel. Attach ignitor wire to piezo ignitor.
7. Set gap between ignitor electrode and target plate to 0.17" (43.18 cm) (see Figure 12).
9. Place motor and fan guard into rear of heater shell (see Motor, page 8, steps 9 and 10).

**⚠ WARNING: Make sure heater is disconnected from propane supply. Heater could ignite causing severe burns.**

8. Test for spark. Push piezo ignitor button and watch for spark between ignitor electrode and target plate.



**Figure 12 - Clearance Between Ignitor Electrode and Target Plate**

## SPECIFICATIONS

### 30,000 BTU MODELS

- 30,000 BTU/Hr Output Rating
- Fuel: Propane Vapor
- Fuel Consumption/Hour: 0.33 gal (1.25 liter), 1.4 lb (0.63 kg)
- Supply Pressure To Regulator: Minimum\* 20 psi, Maximum Tank Pressure or 200 psi
- Regulator Outlet Pressure: 10 PSI
- Manifold Pressure: 10.1 PSI
- Hot Air Output (CFM Approx): 100
- Motor: 3045 RPM, 1/40 HP
- Electric Input: 120 volt/60 hertz
- Amperage: 0.6
- Ignition: Manual, Piezo
- Temperature Range for Heater Operation: 0° F to 85° F\*\* (-17° C to 29.4° C\*\*)

### 35,000 BTU MODELS

- 35,000 BTU/Hr Output Rating
- Fuel: Propane Vapor
- Fuel Consumption/Hour: 0.38 gal (1.44 liter), 1.62 lb (0.74 kg)
- Supply Pressure To Regulator: Minimum\* 20 psi, Maximum Tank Pressure or 200 psi
- Regulator Outlet Pressure: 10 PSI
- Manifold Pressure: 10 PSI
- Hot Air Output (CFM Approx): 100

### 35,000 BTU MODELS (Cont.)

- Motor: 3045 RPM, 1/40 HP
- Electric Input: 120 volt/60 hertz
- Amperage: 0.6
- Ignition: Manual, Piezo
- Temperature Range for Heater Operation: 0° F to 85° F\*\* (-17° C to 29.4° C\*\*)

### 40,000 BTU MODELS

- 40,000 BTU/Hr Output Rating
- Fuel: Propane Vapor
- Fuel Consumption/Hour: 0.44 gal (1.65 liter), 1.86 lb (0.84 kg)
- Supply Pressure To Regulator: Minimum\* 20 psi, Maximum Tank Pressure or 200 psi
- Regulator Outlet Pressure: 10 PSI
- Manifold Pressure: 10 PSI
- Hot Air Output (CFM Approx): 100
- Motor: 3045 RPM, 1/40 HP
- Electric Input: 120 volt/60 hertz
- Amperage: 0.6
- Ignition: Manual, Piezo
- Temperature Range for Heater Operation: 0° F to 85° F\*\* (-17° C to 29.4° C)\*\*

\* For purposes of input adjustment

\*\* When running heater in temperatures above 85° F (29.44° C), high internal temperatures may cause thermal limit device to shut down heater.

## TROUBLESHOOTING

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

OBSERVED FAULT	POSSIBLE CAUSE	REMEDY
Fan does not turn when heater is plugged in	<ol style="list-style-type: none"> <li>1. No electrical power to heater</li> <li>2. Fan hitting inside of heater shell</li> <li>3. Fan blades bent</li> <li>4. Defective motor</li> </ol>	<ol style="list-style-type: none"> <li>1. Check voltage to electrical outlet. If voltage is good, check heater power cord for breaks</li> <li>2. Adjust motor/fan guard to keep fan from hitting inside of heater shell. Bend fan guard if necessary</li> <li>3. Replace fan. See <i>Fan</i>, page 8</li> <li>4. Replace motor. See <i>Motor</i>, page 7</li> </ol>
Heater will not ignite	<ol style="list-style-type: none"> <li>1. User did not follow installation or operation instructions properly</li> <li>2. No spark at ignitor. To test for spark, follow step 8 under <i>Ignitor</i>, page 9. If you see spark at ignitor, have heater serviced by qualified service person. If no spark seen:                         <ol style="list-style-type: none"> <li>A) Loose or disconnected ignitor wire</li> <li>B) Wrong spark gap</li> <li>C) Piezo ignitor loose</li> <li>D) Bad ignitor electrode</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Repeat installation and operation instructions. See <i>Installation</i> and <i>Operation</i>, page 5</li> <li>2. A) Check ignitor wire. Tighten or reattach loose ignitor wire. See Figure 11, page 8 for ignitor wire location                          B) Set gap between ignitor electrode and target plate to 0.17" (0.43 cm)                          C) Tighten nut holding piezo ignitor to base of heater                          D) Replace ignitor electrode. See <i>Ignitor</i>, page 8</li> </ol>
Heater shuts down while running	<ol style="list-style-type: none"> <li>1. High surrounding air temperature causing thermal limit device to shut down heater</li> <li>2. Restricted air flow</li> <li>3. Damaged fan</li> <li>4. Excessive dust or debris in surrounding area</li> </ol>	<ol style="list-style-type: none"> <li>1. This can happen when running heater in temperatures above 85° F (29.44° C). Run heater in cooler temperatures</li> <li>2. Check heater inlet and outlet. Remove any obstructions</li> <li>3. Replace fan. See <i>Fan</i>, page 8</li> <li>4. Clean heater. See <i>Maintenance</i>, page 7</li> </ol>

**⚠ WARNING: Use only in areas free of high dust content.**

## ACCESSORIES

Purchase these accessories from your local dealer. If they can not supply these accessories call DESA Heating, LLC at 1-866-672-6040 for information. You can also write to the address listed on the back page of this manual.

## TECHNICAL SERVICES

You may have further questions about installation, operation, or troubleshooting. If so, contact DESA Heating, LLC at 1-866-672-6040. When calling please have your model and serial numbers of your heater ready.

You can also visit DESA Heating, LLC's web site at [www.desatech.com](http://www.desatech.com).

## 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 Heating, LLC at 1-866-672-6040. When calling DESA Heating, LLC, 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 part to the factory.

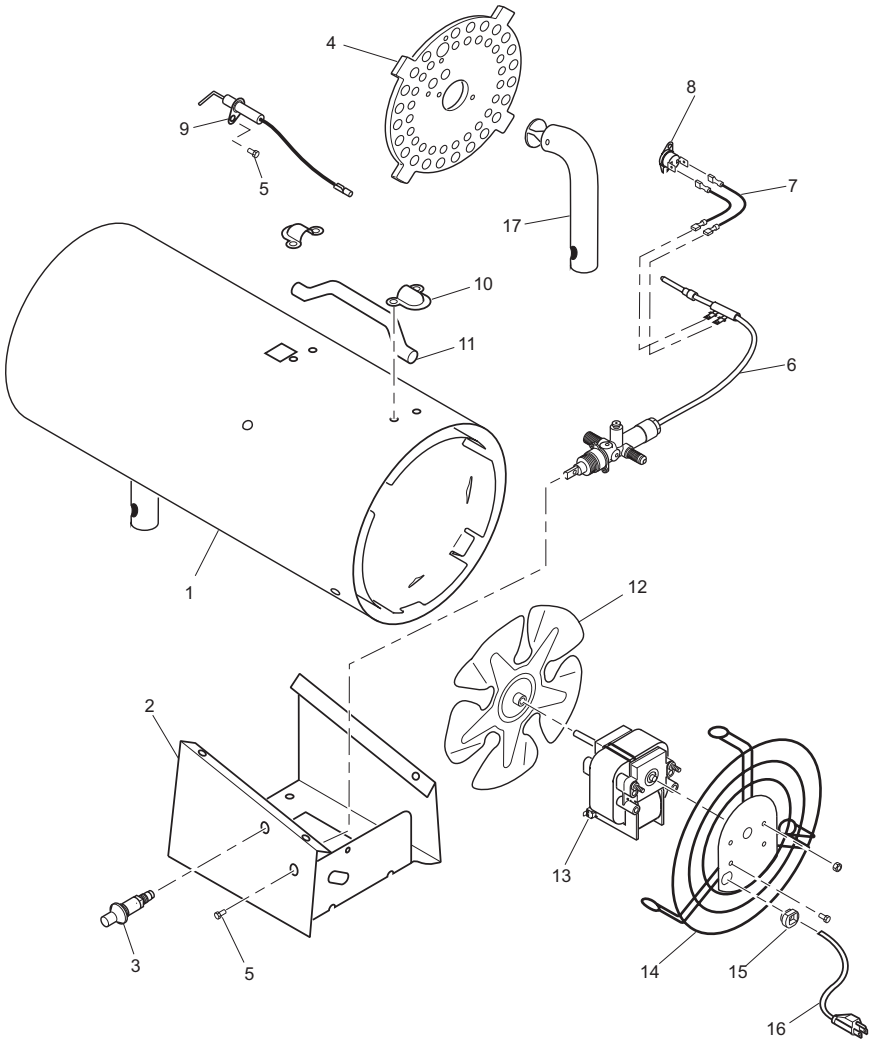
### PARTS NOT UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s), call DESA Heating, LLC at 1-866-672-6040 for referral information. A list of authorized dealers can be found by visiting [www.desatech.com](http://www.desatech.com). When calling DESA Heating, LLC, have ready:

- model and serial numbers of your heater
- the replacement part number

## PARTS

MODELS RLP30A, REM30LPA, 35-FAC, RLLP35A, SPC-35, RLP40, SPC-40A  
AND BLP42A



## PARTS

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under Replacement Parts on page 11 of this manual.

KEY NO.	PART NO.	DESCRIPTION	RLP30A	REM30L/PA	35-FAC	SPC-35	RLLP35A	SPC-40A	BLP42A	RLP40	QTY.
1	**	Heater Body	•	•	•	•	•	•	•	•	1
2	113833-01	Control Box Assembly (Black)	•	•	•	•	•	•	•	•	1
3	102445-01	Piezo Ignitor	•	•	•	•	•	•	•	•	1
4	104155-01	Read Head	•	•	•	•	•	•	•	•	1
5	113852-01	Screw, #6 x 3/8	•	•	•	•	•	•	•	•	1
6	113834-01	Valve with Thermocouple Assembly			•	•	•				1
	113834-02	Valve with Thermocouple Assembly						•	•	•	1
	113834-03	Valve with Thermocouple Assembly	•	•							1
	115264-01	Thermocouple	•	•	•	•	•	•	•	•	1
7	113846-01	Wire Assembly	•	•	•	•	•	•	•	•	2
8	113848-01	Thermal Switch	•	•	•	•	•	•	•	•	1
9	113847-01	Electrode Ignitor	•	•	•	•	•	•	•	•	1
10	121217-01	Handle Clip	•	•	•	•	•	•	•	•	2
11	121216-01	Handle	•	•	•	•	•	•	•	•	1
12	113851-01	Fan	•	•	•	•	•	•	•	•	1
13	113849-01	Motor Assembly	•	•	•	•	•	•	•	•	1
14	113850-01	Fan Guard	•	•	•	•	•	•	•	•	1
15	113865-01	Bushing, Strain Relief	•	•	•	•	•	•	•	•	1
16	098219-25	Cord, Power Supply	•	•	•	•	•	•	•	•	1
17	114168-01	Burner Assembly Tube	•	•	•	•	•	•	•	•	1
<b>PARTS AVAILABLE - NOT SHOWN</b>											
	113835-01	Hose/Regulator Assembly	•	•	•	•	•	•	•	•	1
	113858-01	Tradename Decal			•		•				1
	113858-02	Tradename Decal			•						1
	109111-02	Tradename Decal	•				•			•	1
	097650-01	Tradename Decal						•			1
	110789-01	Tradename Decal		•							1
	113853-01	Warning Decal	•	•	•	•	•	•	•	•	1
	113854-01	Operation Decal	•	•	•	•	•	•	•	•	1
	113802-03	Model Data Decal (US/Can)			•	•					1
	113802-04	Model Data Decal (US/Can)						•	•	•	1
	113802-08	Model Data Decal (US)					•				1
	113802-23	Model Data Decal (US/Can)	•	•							1

\*\* Not a field replaceable part.

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# WARRANTY

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## KEEP THIS WARRANTY

Model (located on product or identification tag) \_\_\_\_\_

Serial No. (located on product or identification tag) \_\_\_\_\_

Date Purchased \_\_\_\_\_

Keep receipt for warranty verification.

## DESA HEATING, LLC LIMITED WARRANTIES

### New Products

**Standard Warranty:** DESA Heating, LLC warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of one (1) year from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with DESA Heating, LLC's warnings and instructions.

For products purchased for commercial, industrial or rental usage, this warranty is limited to 90 days from the date of first purchase.

### Factory Reconditioned Products

**Limited Warranty:** DESA Heating, LLC warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for 30 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with DESA Heating, LLC's warnings and instructions.

### Terms Common to All Warranties

The following terms apply to all of the above warranties:

Always specify model number and serial number when contacting the manufacturer. To make a claim under this warranty the bill of sale or other proof of purchase must be presented.

This warranty is extended only to the original retail purchaser when purchased from an authorized dealer, and only when installed by a qualified installer in accordance with all local codes and instructions furnished with this product.

This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a DESA Heating, LLC Authorized Service Center or a provider approved by DESA Heating, LLC. Warranty parts must be obtained through authorized dealers of this product and/or DESA Heating, LLC who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.

Travel, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.

Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, improper installation, lack of proper maintenance, tampering, or alteration(s).

This is DESA Heating, LLC's exclusive warranty, and to the full extent allowed by law; this express warranty excludes any and all other warranties, express or implied, written or verbal and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to one (1) year on new products and 30 days on factory reconditioned products from the date of first purchase. DESA Heating, LLC makes no other warranties regarding this product.

DESA Heating, LLC's liability is limited to the purchase price of the product, and DESA Heating, LLC shall not be liable for any other damages whatsoever under any circumstances including indirect, incidental, or consequential damages.

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

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For information about this warranty contact: