# ECR97 REPLACEMENT BURNER KIT INSTRUCTIONS ECR97 - 075 Kit #550002188 ECR97 - 100 Kit #550002189

# **WARNING**

Kit shall be installed by qualified service agency in accordance with manufacturer's instructions and all applicable codes and requirements of authority having jurisdiction. If information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. Qualified service agency is responsible for proper installation of this kit. Installation is not proper and complete until operation of appliance is checked as specified in manufacturer's instructions supplied with the kit.

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Shut "OFF" gas supply prior to disconnecting electrical power, before proceeding.

### Removal of existing burner:

- **1.** Tools required:
  - (2) Crescent wrenches
  - Regular screwdriver
  - T25 Torx driver
  - 1/4" drive ratchet
  - 7/16" socket
  - 5/32" Allen wrench or socket
- 2. Follow instructions To Turn Off Gas to Appliance found on Operating Instructions label inside jacket or in Installation, Operation & Maintenance Manual. Verify all electrical power to boiler is turned off.
- **3.** Turn OFF manual main gas shutoff valve external to boiler.
- Remove jacket from boiler. Grasp front cover at lip behind plastic smoke-colored control cover. Pull forward to release snap action latches. Lift jacket up and off bottom support rest.
- **5.** Visually inspect through sight glass to verify no flame is present.
- 6. Disconnect flexible gas line from gas shutoff valve.

# NOTICE

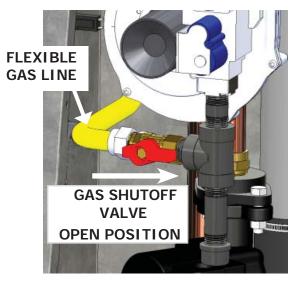
Use two (2) wrenches when loosening and tightening flexible gas line. Boiler's gas valve can be damaged if subjected to excessive torque.

- 7. Disconnect 2 wire harnesses from blower motor.
- **8.** Remove retaining screw and disconnect gas valve wire harness from gas valve.
- **9.** Remove pressure switch hose from air inlet barb fitting, if present.

### PARTS LIST

ECR97 075 Replacement Burner Kit #550002188		
DESCRIPTION	PART #	QTY
1/4-20 Nut	-	4
Burner Sleeve, Refractory 75/100 ECR97	-	1
Burner 75K BTU	-	1
Gasket, Air/Fuel Inlet	-	1
Instructions	240008590	1
ECR97 100 Replacement Burner Kit #550002189		
1/4-20 Nut	-	4
Burner Sleeve, Refractory 75/100 ECR97	-	1
Burner 100K BTU	-	1
Gasket, Air/Fuel Inlet	-	1
Instructions	240008590	1

# Figure 1 - Gas Shutoff Valve



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- **10.** Disconnect high voltage lead from igniter.
- **11.** Remove 2 orange wires from pressure switch (if present), set aside.
- Support gas valve/blower motor/air inlet assembly while removing. Use 1/4" drive ratchet with 7/16" socket, remove (4) nuts holding air inlet to heat exchanger. Lift gas valve/blower motor/air inlet off studs. See Figure 2.
- **13.** Model ECR97 100 only. Unfasten (2) heat exchanger buckle-straps. Lean heat exchanger forward to allow burner to clear lip of chassis. See Figure 2.
- **14.** Grasp burner tube and remove from heat exchange. See Figure 2.
- **15.** Remove round gasket from heat exchanger, and if refractory did not come out with burner, remove now. See Figure 3.

#### **Burner Replacement Instructions:**

- 1. Slide new refractory onto NEW burner. See Figure 3.
- 2. All models: Burner is keyed to heat exchanger. Align "U" shaped notch on burner flange with boss on heat exchanger.
- **3.** Model ECR97 75 only slide new burner/refactory into heat exchanger.

**Model ECR97 - 100 only.** Lean heat exchanger forward with one hand, slide new burner/refactory into heat exchanger.

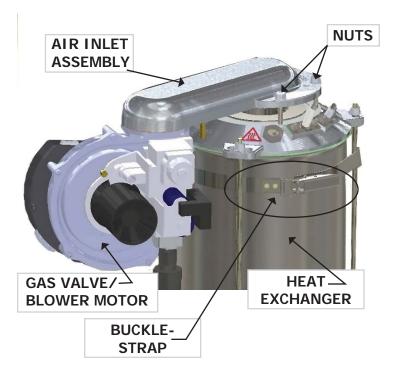
- **4.** Model ECR97 100 only. Refasten (2) buckle-straps on heat exchanger.
- **5.** Install new round air/fuel inlet gasket. Press gasket in groove on heat exchanger, make sure it is fully seated.
- **6.** Attach gas valve/blower/air inlet assembly onto heat exchanger studs, fasten with (4) nuts. Make sure round air inlet gasket does not shift. See Figure 3.
- 7. Attach Igniter cable, air pressure switch hose (if present), gas valve harness, (2) wire harnesses on blower motor, and flexible gas line.

# NOTICE

Flexible gas line is flare connection, no pipe sealant necessary.

- 8. Reattach 2 orange wires to pressure switch, if present.
- **9.** Follow "Start Up Procedure" in Installation, Operation and Maintenance Manual to restore and verify operation.
- 10. Install jacket.

#### Figure 2 - Blower Motor with Air Inlet Assembly



### Figure 3 - Burner with Refractory

