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## GAS FURNACES KITS AND ACCESSORIES

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Libco U.S.A.

## HEAT EXCHANGER AND VENT PIPE TEST KIT

### INSTALLATION INSTRUCTIONS FOR HEAT EXCHANGER AND VENT PIPE TEST KIT (LB-91053 / 74K96) TO BE USED WITH G14/G21/GSR14/GSR21 SERIES UNITS

#### Shipping and Packing List

Package 1 of 1 contains:

- 2 - 1/2" test plugs (73K57)
- 1 - 3/4" test plug (12L83)\*
- 1 - 7/8" test plug (12L84)\*
- 1 - 1" test plug (12L85)\*
- 1 - 1-1/4" test plug (73K56)\*
- 1 - 1-3/8" test plug (73K55)
- 1 - 1-1/2" test plug (73K54)
- 1 - 2" test plug (73K53)
- 1 - Patch plate
- 2 - Self-tapping screws
- 1 - Grommet
- 1 - Pressure gauge (73K59)

\*Additional sets of these four test plugs may be ordered under Lennox part no. 16L50.

#### Application

Heat exchanger and vent pipe test kit (LB-91053/ 74K96) seals the heat exchanger and vent pipe assemblies on Pulse furnaces to allow pressurized leak testing of these systems.

#### General

This kit can be applied to furnaces installed in the upflow, downflow or horizontal configurations.

When the test kit is used with a 40, 60, or 80,000 btu upflow furnace with left-hand exhaust piping exit or a 100,000 btu upflow furnace with right-hand exhaust piping exit, it may be necessary to remove the condensate trap assembly to access the heat exchanger exhaust pipe. If the condensate trap assembly must be replaced, order the appropriate replacement from Lennox customer service.

#### Installation - Testing - Evaluation

The test plugs are rated at 170°F (Chemie plugs) or 225°F (Shaw plugs), so the furnace should be cool when the pressure test is conducted.

**NOTE** - False readings may be obtained if air is warmed by residual heat from the heat exchanger.

**WARNING** - Safety glasses should be worn during pressure testing.

**NOTE** - Before beginning the inspection, verify the integrity of all test equipment and test kit components. Visually check for cracks in hoses and check all other connectors that may leak.

Follow the steps below when testing the heat exchanger and/or the exhaust pipe for leakage. Test the isolated heat exchanger first and then the heat exchanger/exhaust pipe combination.

##### A. Pressure Test of the Isolated Heat Exchanger

- 1 - Cool the unit by running the indoor blower on high speed with the burner off.
- 2 - Turn off electrical power to the furnace.
- 3 - Remove the unit front access panel.
- 4 - Neatly and carefully cut a slot in cabinet side as shown in figure 1.
- 5 - Disconnect the exhaust pipe's PVC compression fitting at the heat exchanger. See figure 1. Slide the exhaust pipe through the previously created slot and move aside.
- 6 - Use a 1-1/4" or 1-3/8" plug to close the heat exchanger exhaust port.
- 7 - Remove the air intake box cover. Un-tighten, then remove the air diaphragm valve body from the heat exchanger air pipe, or alternatively, remove the air flapper from hub body.
- 8 - Use table 1 to select the appropriate test plug. Clean any rust or other residue from the inside of the air pipe. Insert the test plug into the air pipe and hand-tighten the plug until it makes a good seal.
- 9 - Undo the gas union connection below the expansion tank. Remove elbow, nipple and gas diaphragm assembly from the heat exchanger gas intake pipe. Install test gauge assembly into gas intake pipe and tighten until O-ring seats. See detail in figure 3.
- 10 - Connect a hand-operated air pump at the tee to pressurize the heat exchanger to a maximum of 4 psig. Remove hand-pump from 1/4" inflation fitting and replace the plastic cap over the fitting. Carefully check for air leakage at any of the fittings or test plugs.

**WARNING** - Test plugs are only rated for 5 psig.

- 11 - Even when there are no detectable leaks, test plugs will leak slightly (especially after continued usage). Assuming no detectable leakage of the test plugs, pressurize the unit to 4 psig and observe the rate of pressure loss. ANSI standard Z21.47-1993 allows all

# Lennox Gsr21 Installation Manual

**TD Snyder**



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