Laars® Combi Heat™ PV Residential Energy Saver Power Vent Gas Water Heater System

The Laars® Combi Heat™ PV Flammable Vapor Ignition Resistant Models Feature (50 gallon model, only):

■ Advanced Flame Arrestor Design—Flame arrestor is designed to prevent ignition of flammable vapor outside of the water heater.

■ Flammable Vapor Sensor—Electronic sensor prevents burner operation if flammable vapors are detected. The sensor will also prevent operation if there is ongoing flammable vapor burn inside the combustion chamber.

■ Maintenance Free—Regular cleaning of air inlet openings or flame arrestor is not required under normal conditions.

■ Sight Window—Offers a view of the pilot and burner operation.

All Laars® Combi Heat™ PV Models Feature:

■ Internal Double Wall Heat Exchanger—1½" O.D. glass coated steel coil ensures separation of potable water and heating fluid.
  -- 3/4" NPT Solar Collector Supply and Return Connections.

■ Low Heat Exchanger Head Loss—Up to 8 GPM flow, with less than 6 ft. of head loss. Greatly reduces the required pump size for heat exchange.

■ Honeywell Self Diagnostic Electronic Gas Control—Intelligent gas control with spark to pilot ignition system that eliminates the constant burning pilot. This results in savings of pilot gas during stand-by periods (120 V.A.C.).
  -- Enhanced Performance—Proprietary algorithms provide enhanced First Hour Delivery ratings and tighter temperature differentials.
  -- Advanced Temperature Control System—Microprocessor constantly monitors and controls burner operation to maintain accurate water temperature levels.
  -- Intelligent Diagnostics—An exclusive green LED light prompts the installer during start-up and provides ten different diagnostic codes to assist in troubleshooting.

■ Factory Installed Sediment Reduction System—Cold water inlet sediment reducing device helps prevent sediment build up in tank. Increases first hour delivery and minimizing temperature build up in tank.

■ Glass Lined Tank—LAARS® Heating Systems tanks are lined with an exclusively engineered enamel formula that provides superior tank protection from the highly corrosive effects of hot water. This formula (Vitraglas®) is fused to the steel surface by firing at a temperature of over 1600°F (871°C).

■ Horizontal and Vertical Venting—With 3" or 4" PVC, ABS OR CPVC (Maximum equivalent vent lengths on reverse side).

■ 2" Non-CFC Foam Insulation—Covers the sides and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.

■ Pedestal Base.

■ Water Connections—3/4" NPT factory installed true dielectric fittings.

■ Two Protective Anode Rods.

■ T&P Relief Valve—Installed.

■ Thermocouple—Installed.

■ Internal Diagnostics—An exclusive green LED light provides diagnostic codes to assist in troubleshooting.

10-Year Limited Tank and Heat Exchanger Warranties / 6-Year Limited Warranty on Component Parts.

For products installed in USA, Canada and Puerto Rico. Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.
Laars® Combi Heat™ PV Through-The-Wall Gas Water Heater

Deluxe Energy Saver Models

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Propane models feature a Titanium Stainless Steel propane burner.

*Based on manufacturers rated recovery efficiency.

110 V.A.C Required for Power Venting / 110 V.A.C., 60HZ, 3.1 Amperes.

CAE% is .66 (TW50) and .64 (TW75)

CAAFUE% is 82.0

Meet or exceed ASHRAE 90.1b (current standard) C.E.C. Listed

80% Recovery Efficiency

Meets NAECA Requirements

General

All gas water heaters are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All potable water and heat exchanger connections are 3/4" NPT (19mm) on 11" (203mm) centers. All gas connections 1/2" (13mm).

All models design certified by CSA International (formerly AGA/CGA), ANSI Z-21.10.1 and or 10.3 and peak performance rated.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.

Suitable for Water (Potable) Heating and Space Heating.

Toxic chemicals, such as those used for boiler treatment, shall NEVER be introduced into the potable water side. The potable side of this unit may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance. The heat exchanger side of the unit may be used in space heating applications.

Meets NAECA Requirements

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Customer Service and Product Support: 800.900.9276 • Fax 800.559.1583

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