



Heating Systems Company
A subsidiary of BRADFORD WHITE Corporation

LAARS-STOR™ SS Stainless Steel Single-Wall Indirect Water Heater



LS-RTV-75D-L

LS-RTV-40-L

The LAARS-STOR™ SS Models feature:

- **Stainless Steel Heat Exchanger**—Single-wall 1" O.D. stainless steel coil. Maximum supply temperature from the boiler must not exceed 250°F.
- **Stainless Steel Tank and Heat Exchanger**—Made from chromium molybdenum - titanium ferritic 444 stainless steel alloy. Dual stainless steel heat exchanger is utilized on LS-RTV-75D-L model.
- **Immersed Adjustable Honeywell Aquastat**—Fast acting immersion aquastat for automatic temperature control (adjustable from 80°F to 160°F).
- **Supply and Return Connections**—3/4" NPT female connections are located on the front for both the boiler supply and boiler return (1" NPT on LS-RTV-119).
- **2" Non-CFC Foam Insulation**—Covers the side and top of tank, reducing the amount of heat loss. This results in less energy consumption, improved operation efficiencies and jacket rigidity.
- **Potable Water Connections**—3/4" NPT factory installed dielectric fittings extend water heater life and eases installation (1 1/4" NPT on LS-RTV-119).

- **T&P Relief Valve**—Included.
- **Steel Jacket.**
- **Brass Drain/Return Valve.**
- **I=B=R Certified**—These water heaters are rated by the Institute of Boiler and Radiation Manufacturers (I=B=R) to provide accurate performance data within the standards of the certification. The I=B=R rating is issued by the Hydronics Institute Division of GAMA and provide a recognized standard for proper comparison of hydronic appliances.

Limited Lifetime Tank and Heat Exchanger Warranties / 6-Year Limited Warranty on Component Parts. 5-Year Limited Tank Warranties on Commercial Models/1-Year Limited Warranty of 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.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165; 5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983; 4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968; 4,672,919; Re. 34,534; 7,270,087 B2. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 1,272,914; 1,280,043; 1,289,832; 2,045,862; 2,112,515; 2,108,186; 2,107,012; 2,092,105; 2,409,271.

LAARS-STOR™ SS Energy Saver Stainless Steel Indirect Water Heater

Model Specific Information

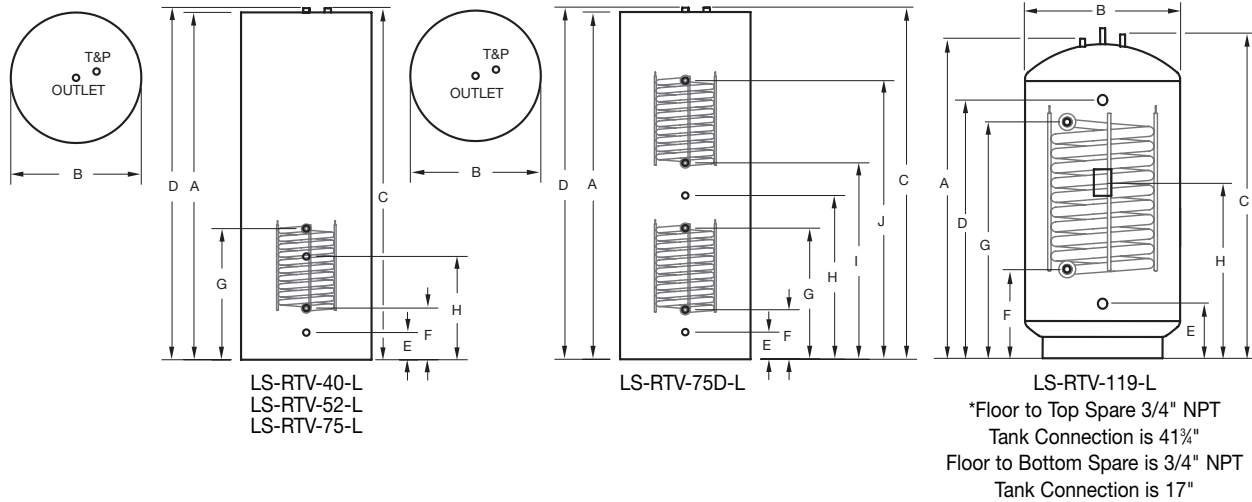
Model Number	Capacity		A	B	C	D	E	F	G	H	I	J	Approx. Shipping Weight
	U.S. Gal.	Imp. Gal.	Floor to Heater Top	Jacket Dia.	Floor to T&P Conn.	Floor to Hot Water Conn.	Floor to Cold Water Conn.	Floor to Exchanger Outlet	Floor to Exchanger Inlet	Floor to Aquastat	Floor to Upper Exchanger Outlet in.	Floor to Upper Exchanger Inlet in.	
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	lbs.
LS-RTV-40-L	40	33	35 ¹ / ₄	24	35 ¹ / ₂	35 ¹ / ₂	5	9 ¹ / ₂	24 ⁵ / ₈	19	—	—	83
LS-RTV-52-L	52	43	45 ⁵ / ₈	24	45 ⁷ / ₈	45 ⁷ / ₈	5	9 ¹ / ₂	28 ³ / ₈	19	—	—	93
LS-RTV-75-L	75	63	63 ⁷ / ₈	24	64 ¹ / ₈	64 ¹ / ₈	5	9 ¹ / ₂	28 ¹ / ₄	19	—	—	117
LS-RTV-75D-L	75	63	63 ⁷ / ₈	24	64 ¹ / ₈	64 ¹ / ₈	5	9 ¹ / ₈	24 ¹ / ₈	30 ¹ / ₈	36 ¹ / ₈	51 ¹ / ₄	130
LS-RTV-119-L	119	100	62	31	60	48 ¹ / ₂	10 ¹ / ₄	16 ¹ / ₄	44 ³ / ₈	36	—	—	315

Model Number	Capacity		A	B	C	D	E	F	G	H	I	J	Approx. Shipping Weight
	Liters		Floor to Heater Top	Jacket Dia.	Floor to T&P Conn.	Floor to Hot Water Conn.	Floor to Cold Water Conn.	Floor to Exchanger Outlet	Floor to Exchanger Inlet	Floor to Aquastat	Floor to Upper Exchanger Outlet cm.	Floor to Upper Exchanger Inlet cm.	
			cm.	cm.	cm.	cm.	cm.	cm.	cm.	cm.	cm.	cm.	kg.
LS-RTV-40-L	151		89	61	90	90	13	24	61	48	—	—	38
LS-RTV-52-L	197		115	61	116	116	13	24	72	48	—	—	42
LS-RTV-75-L	284		161	61	163	163	13	24	72	48	—	—	53
LS-RTV-75D-L	284		161	61	163	163	13	24	62	76	92	130	59
LS-RTV-119-L	450		157	79	152	123	28	41	113	91	—	—	142

I=B=R Water Heater Ratings

Model Number	First Hour Delivery Rating	Continuous Draw @135°F	Standby Heat Loss Rating	Minimum Heat Required Rate	Minimum Heat Source Flow Rate
	Gal./Hr.	Gal./Hr.	°F/Hr.	BTU/Hr.	Gal./Min.
LS-RTV-40-L	158	133	0.9	88,000	8.0
LS-RTV-52-L	200	165	0.7	113,000	8.0
LS-RTV-75-L	225	165	0.5	113,000	8.0
LS-RTV-75D-L	270	215	0.5	150,000	14.5
LS-RTV-119-L	360	280	0.6	195,000	11.0

NOTE: These certified ratings were obtained with a heat source output and flow rate as specified and a 180°F boiler water supply temperature. Other results will be obtained under different conditions.



General

All units are certified at 300 PSI (2068 kPa) test pressure and 150 PSI working pressure (1034 kPa).

All potable water connections are 3/4" (19mm) NPT (1¹/₄" (32mm) NPT on LS-RTV-119).

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