

Laars-Stor[®]2 Residential Energy Saver Double-Wall Indirect Water Heater





Limited Lifetime 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.

Microban[®] antimicrobial product protection helps prevent the growth of bacteria, mold and mildew that may affect the product. The built-in antimicrobial properties do not protect users or others from disease-causing organisms. Microban[®] is a registered trademark of Microban Products Company.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,682,666; 7,634,976; 5,660,165; 5,954,492; 6,056,542; 6,935,280; 5,372,185; 5,485,879; 5,574,822; 7,971,560; 7,992,526; 6,684,821; 6,442,178; 7,304,419; 7,866,168; 7,270,087; 7,007,748; 5,596,952; 6,142,216; 7,699,026; 5,341,770; 7,765,211; 7,665,211; 7,665,210; 7,003,132; 7,509,293; 7,900,589; 5,943,984; 8,082,888; 5,988,117; 7,621,238; 7,650,859; 5,761,379; 7,409,925; 5,277,117; 8,146,772; 7,458,341; 2,262,174. OTHER U.S. AND FOREIGN PATENT APPLICATIONS PENDING. CURRENT CANADIAN PATENTS: 2,314,845; 2,504,824; 2,108,186; 2,143,031; 2,409,271; 2,548,958; 2,112,515; 2,476,685; 2,239,007; 2,092,105; 2,107,1012. Microban® is a registered trademark of Microban Products Company.

Laars-Stor®2 Residential Double Wall Indirect Water Heater

Double Wall Indirect Models

Meet or exceed ASHRAE 90.1 (latest edition)

Model Number	Capacity U.S. Imp.		A Floor to Heater Top	B Jacket Dia.	C Floor to T&P Conn.	D Floor to Water Conn.	E Floor to Exchanger Outlet	F Floor to Exchanger Inlet	G Floor to Thermostat	Approx. Shipping Weight
	Gal.	Gal.	in.	in.	in.	in.	in.	in.	in.	lbs.
LS-DW-2-40-L	37	31	41	22	343/8	417/8	5 ³ /8	271/2	111/2	195
LS-DW-2-50-L	43	36	461/4	22	401/8	47 ¹ / ₄	5 ³ /8	27 ¹ / ₂	11 ¹ /2	205
LS-DW-2-80-L	71	59	59	24	527/8	593/4	5 ³ /8	271/2	111/2	255
Model Number	Capa	icity	A Floor to Heater Top	B Jacket Dia.	C Floor to T&P Conn.	D Floor to Water Conn.	E Floor to Exchanger Outlet	F Floor to Exchanger Inlet	G Floor to Thermostat	Approx. Shipping Weight
	Lite	ers	mm.	mm.	mm.	mm.	mm.	mm.	mm.	kg.
LS-DW-2-40-L	14	0	1045	559	873	1083	137	669	292	89
LS-DW-2-40-L										
LS-DW-2-40-L LS-DW-2-50-L	16	3	1175	559	1019	1200	137	669	292	93



AHRI Certified Water Heater Ratings

Model	First Hour Rating @ 135°F (Gal.)	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Minimum Heat Req. Rate (BTU/Hr.)	Minimum Heat Source Flow Rate (Gal./Min.)			
LS-DW-2-40-L	110 85		1.1	58,000	8.0			
LS-DW-2-50-L 120		85	0.9	58,000	8.0			
LS-DW-2-80-L	145	85	0.6	58,000	8.0			
Model	First Hour Rating @ 57°C (Liters)	Continuous Draw Rating @ 57°C (Liters/Hr.)	Standby Heat Loss Rating (°C/Hr.)	Minimum Heat Req. Rate (kW/Hr.)	Minimum Heat Source Flow Rate (Liters/Min.)			
LS-DW-2-40-L	416	322	0.61	17.0	30.3			
LS-DW-2-50-L	454	322	0.50	17.0	30.3			
LS-DW-2-80-L	549	322	0.33	17.0	30.3			

NOTES: These certified ratings were obtained with a heat source output rate and flow rate as specified and a 180°F (82°C) boiler water supply temperature. Other results will be obtained under different conditions.

DOE Water Heater Performance

Model	Maximum First Hour Rating (Gal.) @ 140°F 115°F		Continuous Draw Rating (Gal./Min.) @ 140°F 115°F		Approximate Boiler Output Needed For Ratings (BTU/Hr.)	
LS-DW-2-40-L	116	164	1.5	2.3	80,000	
LS-DW-2-50-L	123	171	1.5	2.3	80,000	
LS-DW-2-80-L	142	190	1.5	2.3	80,000	

NOTES: Based on 200°F (93°C) boiler water temperature and 50°F (10°C) potable water inlet temperature.

Heat Exchanger Head Loss								
GPM	2	5	8	10	12			
Ft. of Hd. Loss	0.20	0.90	2.40	3.80	5.40			

Meets NAECA Requirements

General

All units are certified at 300 PSI test pressure (2068 kPa) and 150 PSI working pressure (1034 kPa). All potable water connections are 3/4" NPT (19mm) on 8" (203mm) centers.

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.



Customer Service and Product Support: 800.900.9276 • Fax 800.559.1583 Headquarters: 20 Industrial Way, Rochester, NH, USA 03867 • 603.335.6300 • Fax 603.335.3355 9 Brigden Gate, Halton Hills, Ontario, Canada L7G 0A3 (905) 203-0600 Fax: (905) 636-0666