



## Residential Single-Wall Indirect Water Heater



Photo is of  
NSW-2-65-L

### The Single-Wall Models feature:

- **Heat Exchanger**—Single-Wall 1½" O.D. glass coated (Ultonium®) carbon steel coil. The coil has a heat transfer area of 14.2 sq. ft. and a stored water volume of 2.7 Gal. Maximum supply temperature from the boiler must not exceed 250° F.
- **Factory Installed Sparge Tube System**—Cold water inlet sediment reducing device helps prevent sediment build up in tank. Increases first hour delivery of hot water while minimizing temperature build up in tank.
- **Ultonium® Lining**—Niles Steel Tank water heater tanks are protected from the corrosive effects of hot water by an exclusive ceramic porcelain-like coating. The Niles Steel Tank high silica Ultonium® lining provides a tough interior surface for our hot water tanks.
- **Immersed Adjustable Honeywell Aquastat**—Fast acting immersion aquastat for automatic temperature control (adjustable from 80°F to 160°F).
- **Supply and Return Connections**—1" NPT female connections are located on the front for both the boiler collector supply and return.
- **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**—¾" NPT factory installed true dielectric fittings extend water heater life and eases installation.
- **Three Protective Aluminum Anode Rods**—Provide added protection against corrosion for long trouble-free service.
- **Steel Tank**—Heavy gauge steel automatically formed, rolled and welded to assure a continuous seam for glass lining.
- **T&P Relief Valve**—Included.
- **Brass Drain 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 / 5-Year Limited Warranty on Component Parts.

For more information on warranty, please visit [www.nilesst.com](http://www.nilesst.com)

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.

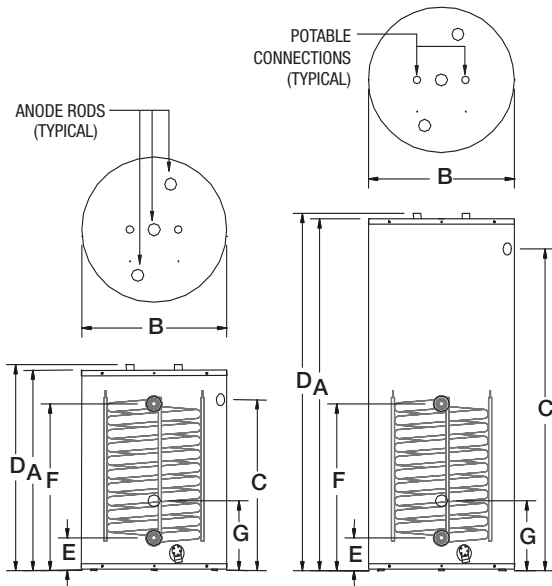
MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 7,063,133 B2; 5,954,492; 5,761,379; 5,943,984; 5,081,696; 5,988,117; 6,142,216; 5,199,385; 5,574,822; 5,372,185; 5,485,879; 5,277,171; (B1)5,341,770; 5,660,165; 5,596,952; 5,682,666; 4,904,428; 5,023,031; 5,000,893; 4,669,448; 4,829,983; 4,808,356; 5,115,767; 5,092,519; 5,052,346; 4,416,222; 4,628,184; 4,861,968; 4,672,919; Re. 34,534. 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.

# Residential PowerStor Indirect Water Heater

## Single Wall Models

Meet or exceed ASHRAE 90.1b (current standard)

Model Number	Capacity U.S. Gal.	A Floor to Heater Top in.	B Jacket Dia. in.	C Floor to T&P Conn. in.	D Floor to Water Conn. in.	E Floor to Exchanger Outlet in.	F Floor to Exchanger Inlet in.	G Floor to Aquatstat in.	Approx. Shipping Weight lbs.
NSW-2-30-L	30	33 <sup>5</sup> / <sub>8</sub>	22	28 <sup>1</sup> / <sub>4</sub>	34 <sup>3</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	140
NSW-2-40R-L	38	41 <sup>1</sup> / <sub>8</sub>	22	34 <sup>3</sup> / <sub>8</sub>	41 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	172
NSW-2-50R-L	48	46 <sup>1</sup> / <sub>4</sub>	22	40 <sup>1</sup> / <sub>8</sub>	47	5 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	180
NSW-2-65-L	60	59 <sup>1</sup> / <sub>4</sub>	22	53 <sup>1</sup> / <sub>8</sub>	60	5 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	196
NSW-2-80-L	75	59	24	52 <sup>7</sup> / <sub>8</sub>	59 <sup>3</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	224
NSW-2-120-L	116	62 <sup>1</sup> / <sub>2</sub>	28 <sup>1</sup> / <sub>4</sub>	55 <sup>3</sup> / <sub>4</sub>	63 <sup>1</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>2</sub>	355



### DOE Water Heater Performance

Model Number	Maximum First Hour Rating (Gal.) @		Continuous Draw Rating (Gal./Min.) @		Approximate Boiler Output Needed for Ratings (BTU/Hr.)
	140°F	115°F	140°F	115°F	
NSW-2-30-L	279	429	4.2	6.7	220,000
NSW-2-40R-L	288	438	4.2	6.7	220,000
NSW-2-50R-L	297	447	4.2	6.7	220,000
NSW-2-65-L	306	456	4.2	6.7	220,000
NSW-2-80-L	321	470	4.2	6.7	220,000
NSW-2-120-L	357	507	4.2	6.7	220,000

### I=B=R Water Heater Ratings

Model Number	First Hour Delivery @ 135°F (Gal.)	Continuous Draw Rating @ 135°F (Gal./Hr.)	Standby Heat Loss Rating (°F/Hr.)	Minimum Output Rate of Heat Source (BTU/Hr.)	Minimum Heat Source Flow Rate (Gal./Min.)
NSW-2-30-L	255	235	1.2	157,000	13.7
NSW-2-40R-L	260	235	1.1	157,000	13.7
NSW-2-50R-L	265	235	0.9	157,000	13.7
NSW-2-65-L	275	235	0.8	157,000	13.7
NSW-2-80-L	295	235	0.6	157,000	13.7
NSW-2-120-L	325	235	0.4	157,000	13.7

Based on 200°F boiler water temperature and 50°F potable water inlet.

These certified ratings were obtained with a heat source output rate 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 (1034 kPa) working pressure. All potable water connections are 3/4" (19mm) NPT 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 side of this system. The potable side may NEVER be connected to any existing heating system or component(s) previously used with a non-potable water heating appliance.



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