

Commercial Single-Wall Indirect Water Heater



Photo is of
NSW-80C-5

ULTONIUM®
+
MICROBAN®

The Single-Wall Indirect Models feature:

- **Heat Exchanger**—Single-Wall 1½" O.D. glass coated (Ultonium® glass lining with Microban®) carbon steel coil. The coil has a heat transfer area of 27.2 sq. ft. (2.5m²) and a stored water volume of 5.0 Gal. (19L). Maximum supply temperature from the boiler must not exceed 240°F (116°C).
- **Factory Installed Sparge Tube System**—Sediment reducing device that also increases first hour delivery of hot water while minimizing temperature build-up in tank.
- **Ultonium® Glass Lining with Microban®**—An exclusively engineered enamel formula that is applied to the interior surface of the steel for superior protection against corrosion. Microban® antimicrobial technology helps prevent the growth of bacteria, mold and mildew on the surface of the tank lining.
- **Immersed Adjustable Aquastat**—Fast acting immersion aquastat for automatic temperature control.
- **Supply and Return Connections**—1" (25mm) NPT female connections are located on the front for both the boiler collector supply and return.
- **Insulation System**—2" (51mm) Non-CFC foam insulation covers the sides and top of the tank, reducing heat loss. This results in less energy consumption, improved efficiencies, and jacket rigidity.
- **Potable Water Connections**—1" (25mm) NPT factory installed true dielectric fittings extend water heater life and eases installation.
- **Three Protective Anode Rods**—Provide added protection against corrosion for long trouble-free service.
- **T&P Relief Valve**—Installed.
- **Low Restriction Brass Drain Valve**—Tamper proof design.
- **AHRI Certified**—These water heaters are rated by the Air-Conditioning, Heating, and Refrigeration Institute to provide accurate performance data within the standards of the certification. This certification provides a recognized standard for proper comparison of hydronic appliances.



5-Year Limited Tank Warranties / 1-Year Limited Warranty on Component Parts.

For more information on warranty, please visit www.bradfordwhite.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.

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.

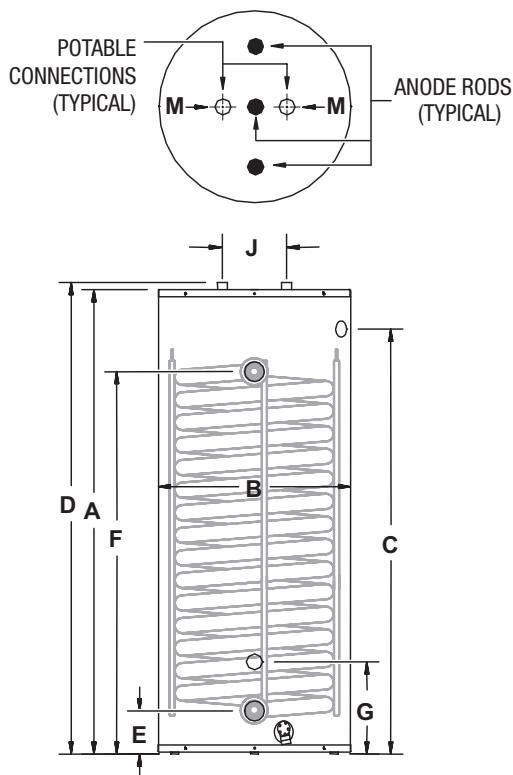
Commercial Indirect Water Heater

Single Wall Models

Meet or exceed ASHRAE 90.1 (latest edition)

Model Number	Nominal Gal. Capacity		A Floor to Top of Heater	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 Aquastat	J C/L of Water Conn.	M Water Conn. NPT	Approx. Shipping Weight
	U.S. Gal.	Imp. Gal.	in.	in.	in.	in.	in.	in.	in.	in.	in.	lbs.
NSW-65C-5	54	45	59 ¹ / ₄	22	53 ¹ / ₈	60	5 ³ / ₈	47 ³ / ₄	11 ¹ / ₂	8	1	273
NSW-80C-5	67	56	59	24	52 ⁷ / ₈	59 ³ / ₄	5 ³ / ₈	47 ³ / ₄	11 ¹ / ₂	8	1	300
NSW-120C-5	107	89	62 ¹ / ₂	28 ¹ / ₄	55 ³ / ₄	63 ¹ / ₄	6 ³ / ₈	48 ³ / ₄	11 ¹ / ₂	8	1	422

Model Number	Nominal Liter Capacity	A Floor to Top of Heater	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 Aquastat	J C/L of Water Conn.	M Water Conn. NPT	Approx. Shipping Weight
		mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	kg.
NSW-65C-5	204	1505	559	1349	1524	137	1213	292	203	25	124
NSW-80C-5	254	1499	610	1343	1518	137	1213	292	203	25	136
NSW-120C-5	405	1588	718	1416	1607	162	1238	292	203	25	191



AHRI Certified 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-65C-5	370	335	0.7	225,000	14.0
NSW-80C-5	380	335	0.6	225,000	14.0
NSW-120C-5	400	325	0.4	220,000	14.0

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 Number	Maximum First Hour Rating (Gal.) @		Continuous Draw Rating (Gal./Min.) @		Approximate Boiler Output Needed for Rating (BTU/Hr.)
	140°F	115°F	140°F	115°F	
NSW-65C-5	396	582	5.7	8.8	300,000
NSW-80C-5	408	594	5.7	8.8	300,000
NSW-120C-5	445	631	5.7	8.8	300,000

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

Heat Exchanger Head Loss

GPM	5	8	10	12	14
Ft. of Hd. Loss	0.60	1.60	2.60	3.70	5.00

General

All units are certified at 300 PSI (2068 kPa) test pressure and 150 PSI (1034 kPa) working pressure. All potable water connections are 1" NPT (25mm) 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.

Niles Steel Tank ■ 1701 Terminal Road ■ PO Box 728 ■ Niles, MI 49120
Phone: 269-683-1910 ■ FAX: 269-683-1953 ■ www.nilesst.com