



NST

NILES
STEEL
TANK™

SINCE 1898



**Peacock Sales
Company, Inc.**

770-451-7905

www.peacocksalesco.com



STORAGE TANKS • HOT WATER GENERATORS • BUFFER TANKS

VERTICAL ROUND ELECTRIC POWER WATER HEATERS

BLADDER TANKS • POWERED ANODE SYSTEM • QUICK SHIP PROGRAM

Hot Water Storage Tanks

Niles Steel Tank™ large volume hot water storage tanks are built to the highest standards in the industry and come with a 5 year limited warranty. We offer bare, jacketed and insulated and our spray-on R-16 topcoat, which is suitable for outdoor applications. Configurations include both vertical and horizontal orientations. When choosing which tank is correct for your project, pay close attention to actual or nominal gallons, many people do not understand this concept. The model numbers indicate the actual physical size of only the tank but we offer our gallons in both actual and nominal. We do this because there is some confusion when trying to compare other manufacturers sizes with ours. Below is a diagram which will better explain actual vs. nominal gallons.

Topcoated tank



Bare - up to 5,700 gallons

Jacketed and Insulated - up to 1,700 gallons

Top Coat Insulation - up to 5,700 gallons

Niles Diverter Tube

Standard Features

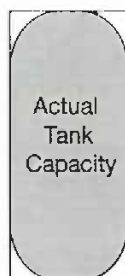
- ASME IV, Part HLW
- 125 PSI
- 3" NPT circulation fittings
- Ultonium™ Glass Lining
- Manways included on tanks over 36" dia.
- Magnesium Anodes
- 4" Skirt , 6" Skirt on 54" diameter and above
- Lift Lugs standard on bare tanks
- Red Oxide Primer
- 5-Year Limited Warranty

Optional Features

- Defender™ Epoxy Lining
- Double Glass Lined Tanks (10 year warranty)
- 150 ~ 160 PSI
- R-16 Topcoat insulation
- Power Anodes
- Jacketed and insulated
- 316L, 317, 2205, & 2507 Stainless steel
- Niles Diverter Tube



Designed for hot water storage of potable water up to 180 F degrees. Vertical or horizontal configurations.



Nominal capacity is listed for comparison purposes. Nominal gallon capacity includes an area outside of the actual tank and are not actual usable gallons.

Hot Water Generators



Niles Steel Tank™ Hot Water Generators are equipped with 2 or 4 pass, single or double wall construction, U-bend tube bundle heat exchangers. We supply both steam to water and water to water systems. The system is operated by passing steam or hot water through the coil to heat the tank contents. Large heating capacity in small spaces makes this heater particularly suitable for boiler rooms with low head room.

Proper sizing in tank and bundle is essential to achieve optimum performance. The first step in designing your system is to choose the tank. Niles Steel Tank™ offers many configurations of glass lined, epoxy lined and stainless steel constructed tanks.

Our selection of tanks come in both vertical and horizontal configurations, bare, topcoated or jacketed and insulated. Select from our standard designs or customize as needed. All tank fittings come standard as NPT but flanged or grooved ends are available. Ultonium™ Glass lining, Double Ultonium™ Glass Lining, Niles Defender Epoxy™ Lining, 316L, 317, 2205, and 2507 stainless steel are also available.

Control Packages

Water to water control package includes:

- Isolation valves
- Control valve (self operating or electric)
- Inlet wye strainer
- All piping
- Unions and connections

Steam to Water Control Package Includes:

- Isolation valves
- Temperature control valve
- Wye strainer
- Steam trap
- All piping
- Unions and connections

For proper tube bundle sizing, please provide the information below.

Heat Load - _____ Btu (Boiler output)

Tube Side:

Fluid – water/steam

Inlet temperature _____ °F

Outlet temperature _____ °F

Flow Rate _____ gpm

Tank Side:

Tank fluid – water/steam

Inlet temperature _____ °F

Outlet temperature _____ °F

Recovery Rate _____ gph

The hot water generator tank sizes are based from our standard hot water storage tanks. Please refer to www.nilesst.com for tank section.

Hot water generators follow the same list of standard equipment and optional features that our storage tanks provide.

Commercial Vertical Round Electric Power Water Heater



- 150 to 2500 Gallon Storage
- 12 to 396 kW
- Round Vertical Models
- Outstanding Safety Features

* Separate mounting.

3 Year Limited Tank Warranty

Some states do not allow limitations on warranties. See complete copy of the warranty included with the heater.

For more information, please visit www.nilesst.com

The Electric Power Water Heater Models Features

- 150 psi ASME Code Glass-Lined Tank
- ASME Temperature and Pressure Relief Valve
- Internal Fusing (above 120 amps)
- Incoloy Heating Elements
- Painted Steel Jacket
- Magnesium Anode Rods
- Immersion Thermostats
- Magnetic Contactors
- Manual Reset High Limit
- Hinged Door with Keyed Lock
- Channel Iron Skid Base
- Approved for 180°F Operation
- Lifting Lug access

Optional Features

- BMS Contacts
- Low Water Cut-off
- Pilot Lights and Manual Limiting Switches
- Electric Step Controller (36kW & higher)
- Alarm Bell
- Shunt Trip Disconnect*
- Low Pressure Switch
- High Pressure Switch
- Time Clock (7 Day)
- Time Clock (24 Hour)
- Safety door interlock
- T&P gauge
- 12" x 16" Manhole (250 Gallons and Larger)



Power Plate Water Heating System

The Niles Power Plate water heating system is a performance driven water heating package that comes with your choice of water storage tanks up to 2,500 gallons. The unique Power Plate heat exchanger design provides high rates of heat transfer requiring less surface area than conventional shell and tube heat exchangers. Couple that performance with our Ultonium lined or stainless steel alloy storage tanks for the ultimate heating domestic water delivery package.

- **Brazed Plate Heat Exchanger – 316L Stainless Steel Construction**
- **Compact High Efficiency Design**
- **Recovery Rates from 300 to 4,200 GPH**
- **Up to 300 GPM**
- **Factory Tested Prior to Shipping**
- **Honeywell Controls**
- **Standard Design Pressure 435 psig @max temp of 450 F**
- **Insulated Cover & Piping**
- **ASME, UL, CRN**
- **Compatible With Any Size Storage Tank**



Buffer Tanks Series

Niles Steel Tank™ Buffer Tanks are designed for use with commercial chiller water systems and hydronic heating systems which may have insufficient water volume to maintain optimum operating temperature control. Niles offers gallon capacities in 130 gal, 210 gal, 300 gal, 400 gal, 528 gal, and 1040 gal. Buffer



Custom sizes are available

tanks are constructed under the A.S.M.E., Section VIII., Division I code as such are not required to be equipped with a manway but are available as an option, if desired. Vertical tank designs are available with a center baffle plate with inlet and outlet on upper shell. The top of the tank has an NPT port for the air vent; the bottom of the tank has an FNPT drain port. Standard product design offering as well as custom configurations with alternate system connections are available.

Available connections are Female National Pipe Threads, ANSI Flanges, and Grooved Pipe End connections. R-16 closed cell spray foam insulation is also available. Linings include, Ultonium™ or Niles Defender Epoxy™, if needed. Ultonium™ lined tanks do not have internal baffles.

Standard Features

- All tanks are constructed and certified in accordance with the ASME section VIII, Div. I code
- Carbon steel construction
- Internal baffle on vertical tanks
- Red oxide shop primer on bare tanks
- Upper inlet and outlet
- Lift lugs
- 4" high skirt w/ base clips

Optional Features

- Horizontal configuration with saddles supports
- Topcoat spray foam insulation is available, R-16 value
- Grooved, flanged and NPT connections available
- 304 and 316L stainless steel is available
- Manways / Hand hole
- Inlets and outlets can be re-positioned in the shell of the tank if required
- Custom inlet & outlet flange sizes
- Interior linings are available

Niles Steel Tank Buffer Tanks Series

Model Number	Gallon Cap.*	Fitting Size	Drain	Vent	Height	Width	Bottom Clearance	Approx. Shipping Weight lbs.
*CBT-24-072	130	2" NPT	1"	1"	76"	24"	4"	375
*CBT-30-075	210	3" Flg	1"	1"	79"	30"	4"	425
*CBT-36-072	300	4" Flg	1"	1"	76"	36"	4"	633
*CBT-36-094	400	4" Flg	1"	1"	98"	36"	4"	715
CBT-42-084	460	4" Flg	1"	1"	88"	42"	4"	1250
*CBT-48-077	528	6" Flg	1"	1"	81"	48"	4"	1150
CBT-48-090	600	6" Flg	1"	1"	94"	48"	4"	1765
CBT-48-099	700	6" Flg	1"	1"	103"	48"	4"	1885
CBT-48-141	1000	6" Flg	1"	1"	145"	48"	4"	1957
CBT-54-096	850	6" Flg	1"	1"	102"	54"	6"	1630
CBT-60-096	1040	3" Flg	1"	1"	102"	60"	6"	2280

*Available from our Quick Ship Inventory.

Expansion Bladder Tanks



Sizes range from 175 gallon
to 1000 gallon
Larger sizes upon request

- Bladder tank are factory charged to 12 psi
- 125 psi standard (150, 175, 200 & 300 psi optional)
- Dried to -50 dew point
- For use with non-potable water
- Heavy duty replaceable bladder
- Max temperature 240°F
- Special interior & exterior coatings available
- Red oxide primer paint
- Large flanged opening for easy bag replacement
- Carbon steel construction
- Can be used with glycol systems
- ASME code Sec VIII, Div 1
- 1 Year warranty

Powered Anode System



Protect your tank investment with the new powered anode system for large volume tanks. As a building owner or service maintenance provider, the last thing you need is to replace your large volume storage tank because the consumable anodes were not routinely inspected and replaced.

Our maintenance procedures are clear, inspect and replace the consumable anodes every 6 months. Failure to perform the inspection can jeopardize the warranty but more importantly greatly reduce the life expectancy on the tank.

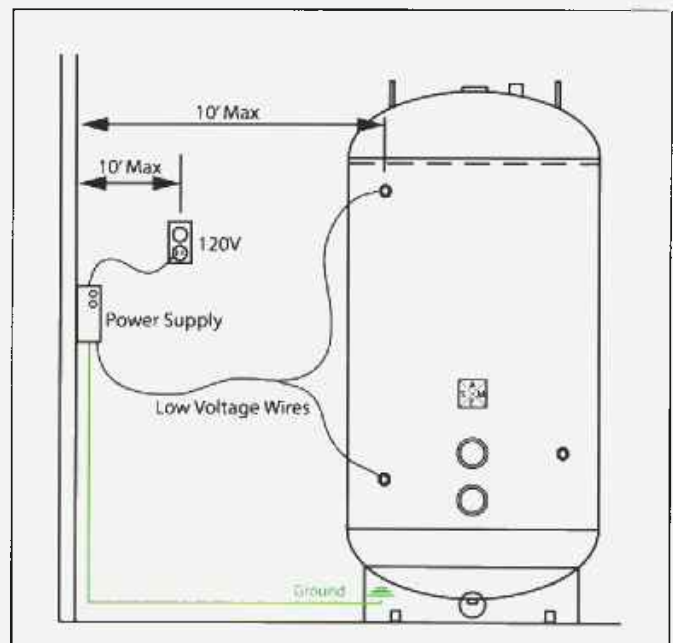
For Large Volume Glass Lined Storage Tanks



Scheduled maintenance of the tanks anode rods can be a costly process. Not only is there the expense of pulling your system off line, there is considerable down time and disruption of service to the building. All of this can be eliminated by installing the powered anode system by Niles Steel Tank™. Save time, money and know that your tank investment is protected.

The titanium powered anode and controlled power supply will replace conventional magnesium or aluminum anode rods. The powered anode system monitors the electrical potential of the tank surfaces and supplies identical electrical potential to the anode rod(s). Because there is no difference in electrical potential, corrosion of the tank is prevented. The system uses low voltage, low current electricity to create electrical potentials inside the tank that prevents corrosion. The titanium anode is non-consumable so it does not need to be replaced and there is no "rotten egg" smell.

- **Titanium powered anodes are designed for maintenance free operation.**
- **Easy hook-up, plug-n-play. The unit is powered by 120V from a standard wall outlet. The anodes have 1) low voltage wire and a ground wire, which is attached to the tank.**
- **The power source is a small 6 ½" x 3 ½" x 2 ½" box that can mount to a wall near the tank. (Within 10' from the anodes)**
- **Visual Alert - If the system detects a fault in the wiring, the power source will flash with a green and red LED**
- **Re-fit existing tanks with electric anodes**
- **Available for tanks up to 850 gallons**
- **For larger tank sizes contact factory**



Contact your Niles Steel Tank™ representative for pricing and sizing.

Powered Anode System will handle 1, 2, or 3 titanium anodes.
This example shows a 2 anode system.

Niles Quick Ship Program

Niles understands that having product ready to ship is essential in today's markets. We hold one of the largest inventories of Ultonium™ glass lined hot water storage tanks, buffer tanks, hydraulic separators and bladder tanks in the mid-west in sizes ranging up to 1000 gallons. Most can be shipped within a day or 2 of order placement. All tanks are held in stock as bare tanks. Adding a jacket or topcoat insulation is just a matter of a few days.

Please check with your local representative on any quick ship stock for details on availability.

80, 120 &
200 Gallon



Hot Water Storage Tanks & Buffer Tanks



Hydraulic Separators



Hot Water Storage Tanks



Buffer Tanks



Bladder Tanks



A subsidiary of **BRADFORD WHITE** Corporation