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# Buderus

Domestic Hot Water Tanks  
Indirect Fired



## Clean, Pure, Reliable Hot Water

Efficient and Economical

Excellent Recovery Rates

Thermoglaze® or  
Stainless Steel Tanks

Superior Insulation

Easy Access Cover  
for Cleaning

Four Styles with Capacities  
of 32 to 113 Gallons

Comfortable. Efficient. Intelligent Heating.

# Buderus

# Indirect Fired Domestic Hot Water Tanks

## Thermoglaze® Series



### The Buderus Hot Water Advantage

In North America the average household spends around 30% of energy costs on their domestic hot water. With this in mind Buderus designs its hot water tanks to work more economically and efficiently. Buderus pioneered new methods of producing and storing domestic hot water, so you are assured of greater operating efficiencies, lower fuel consumption and consistent hot water, all while saving money.

Buderus' patented Thermoglaze® is a ceramic material which is thermally bonded to the internal components of the tank to provide a glass-like coating. This unique coating protects against the corrosive affects of minerals that naturally appear in water, maximizing the life of the tank, while minimizing the number of service calls. Constructed of the highest quality materials, including the Thermoglaze® coating on all the interior surfaces, Buderus tanks are well insulated resulting in less than a 1/4°F loss of heat per hour. The larger surface area of the heat exchanger in a Buderus tank delivers excellent recovery rates.

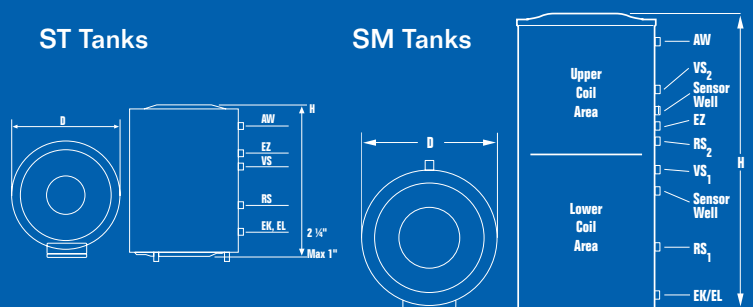


Buderus Thermoglaze® is a permanent protective coating bonding to the interior of the tank, including the coil.

Vertical Models		S120	ST150	ST200	SM300			SM400		
					Lower Coil <sup>1</sup>	Upper Coil	Dual Coils <sup>2</sup>	Lower Coil <sup>1</sup>	Upper Coil	Dual Coil
<b>Performance Data</b>										
Minimum Heat Source Output	MBTU/Hr. <sup>5</sup>	84	93	134	126	102	187	138	102	187
Continuous Rating (2nd Hr.) Inlet temp 50F outlet temp 140F	Gal./Hr. (GPM)	112 (1.9)	124 (2.1)	177 (2.9)	169 (2.8)	135 (2.2)	248 (4.1)	183 (3.0)	135 (2.2)	248 (4.1)
Boiler Water Temp. °F		180	180	180	180			180		
Boiler Water Flow Rate (GPM)		8.8	15.4	17.6	14.5	5.3	22.0	14.5	5.3	22.0
Coil Pressure Drop (Feet of Head)		1.2	3.0	4.3	2.5	1.7	15.5	2.3	1.7	15.5
<b>Physical Dimensions</b>										
Contents (Gallons)		32	40	53	77			103		
Width		20"	27 1/4"	27 1/4"	27"			34"		
Height <sup>3,6</sup>		37"	34 5/8"	42 2/3"	59"			62"		
Dry Weight (Approx. lbs.) <sup>4</sup>		158	245	286	342			445		
<b>Operating Data</b>					All Models					
Max Pressure (psi)		145*								
Max Temperature (°F)		203								

- 1 Lower coil continuous rating is based on connection to a boiler not applicable to connection to a solar panel.
  - 2 Dual coil ratings are calculated based on the heating surface of the coils tied in series when being used with a boiler only.
  - 3 Excluding screw-on feet.
  - 4 All weights are 5% higher with packing material.
  - 5 Required boiler output to achieve stated continuous ratings. Size the pump in order to get rated tank outputs.
  - 6 Allow 15" above tank for anode rod removal.
- \* 100PSI in Massachusetts

Models		S-120	ST-150	ST-200	SM-300	SM-400
<b>Dimensions</b>						
AW	DHW Outlet	3/4"	1"	1"	1"	1 1/4"
EZ	P&T/Recirculation Return	3/4"	3/4"	3/4"	1"	1"
VS	Boiler Water Supply	3/4"	1"	1"	1"	1"
RS	Boiler Water Return	3/4"	1"	1"	1"	1"
EK/EL	Cold Water Feed/DHW Drain	3/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"



Buderus domestic hot water tanks offer features that provide for ease of installation, simple maintenance and reliable operation. All models are equipped with a magnesium anode rod for protection against corrosion, a P&T valve and drain for quick installation, and use adjustable screw-on feet for leveling<sup>4</sup>. An easy-access cover aids in cleaning and maintaining the coil and tank interior. Standard on the S120, a Honeywell aquastat can be ordered separately for the other tanks.

Buderus domestic hot water tanks are designed with features that allow them to fit all needs. Short on space? The LT horizontal tanks are designed to fit under a Buderus boiler resulting in a smaller footprint. For domestic hot water priority add a Buderus Logamatic control. With this option, even on cold mornings when the boiler is working hard, you will always have plenty of hot water for showers. Equipped with a recirculation option Buderus tanks work more efficiently so that hot water is not wasted.

Buderus water tanks are a reliable and clean way to store hot water. From small residences to large commercial operations, there is a Buderus domestic hot water tank that is just right for your application.



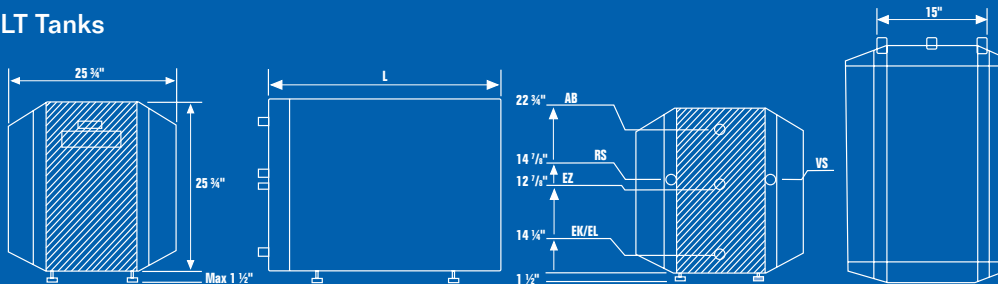
Horizontal Models		LT160	LT200	LT300
<b>Performance Data</b>				
Minimum Heat Source Output	BTU/Hr. <sup>3</sup>	79,000	93,000	137,000
Continuous Rating (2nd Hr.) Inlet Temp 50F Outlet Temp 140F	Gal./Hr. (GPM)	105 (1.7)	124 (2.1)	183 (3.0)
Boiler Water Temp. °F		180	180	180
Boiler Water Flow Rate (GPM)		15.4	17.6	21.2
Coil Pressure Drop (Feet of Head)		3.1	4.4	8.0
<b>Physical Dimensions</b>				
Contents (Gallons)		42	53	79
Dimension (Width) W		25 3/4"	25 3/4"	25 3/4"
Dimension (Height) H <sup>1</sup>		25 3/4"	25 3/4"	25 3/4"
Dimension (Length) L		36 1/4"	42 7/16"	57 3/4"
Dry Weight (Approx. lbs.) <sup>2</sup>		220	247	364
<b>Operating Data</b>				
			All Models	
Max Pressure (psi)		145		
Max Temperature (°F)		203		
<b>Stackable Options</b>				
	LT160	LT200	LT300	
G124X	All Models	All Models	All Models	
G115WS	Models 3, 4	All Models	All Models	
G125BE	Models 21, 28	All Models	All Models	
GB125BE	Models 22, 30	All Models	All Models	
G215	Model 3	Models 3, 4, 5	All Models	

- 1 Excluding screw-on feet.
- 2 All weights are 5% higher with packing material.
- 3 Required boiler output to achieve stated continuous ratings. Size the pump in order to get rated tank outputs.
- 4 Screw on feet are not included with the LT tanks. Please use the ones supplied with the boiler.

### Thermoglaze Tank Features and Benefits

- Economical – better insulation. High density fluoro-carbon free bonded-foam insulation for better maintenance of stored hot water temperature.
- Large surface area heat exchanger for excellent recovery rates.
- Corrosion Protection – the Buderus Thermoglaze® process protects the interior of the tank from corrosion caused by most types of water.
- Easy access cover for cleaning of coil and tank interior.
- Horizontal tanks for small footprint, vertical tanks for improved recovery rates.
- Standard magnesium anode rod for active corrosion protection.

### LT Tanks



Models		All LT
<b>Dimensions</b>		
AB	DHW Outlet	1"
EZ	P&T/Recirculation Return	3/4"
VS	Boiler Water Supply	1"
RS	Boiler Water Return	1"
EK/EL	Cold Water Feed/DHW Drain	1 1/4"

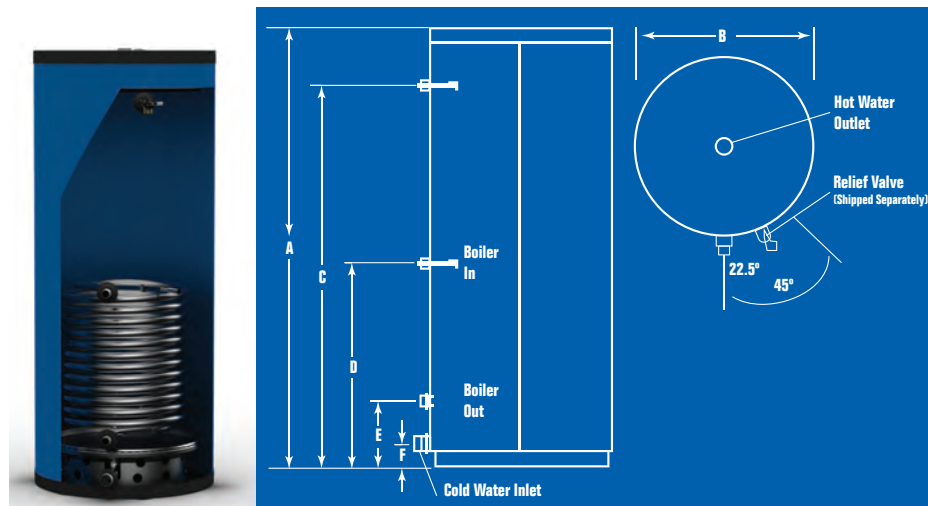
# Stainless Steel DHW Indirect Tanks

## SST Series

The SST stainless steel indirect hot water heater has a welded and passivated stainless steel tank and heat exchanger. The interior is constructed with 316L Stainless Steel to provide superior durability, long life, and with its rust prohibitive it is extremely resistance the corrosive tendencies of domestic water. The Stainless Steel heating coil efficiently transfers high volumes of BTU's from the heat source to the domestic water stored in the tank. The two inches of High Density CFC/HCFC Free Polyurethane Foam with a tested R Value of 13.4 provide the lowest standby losses in the industry.

### Stainless Steel Indirect Hot Water Tanks

Stainless Steel Models	SST150	SST250	SST300	SST450
Storage Capacity (Gallons)	40	67	82	113
<b>Performance Data</b>				
Minimum Heat Source Output	115,000	154,000	171,000	216,000
Continuous Rating (2nd Hr.) GPH (GPM) Inlet Temperature 50F Outlet Temperature 140F	181 (3.3)	263 (4.4)	285 (4.8)	349 (5.8)
Boiler Water Temperatre (F)	180	180	180	180
Coil Pressure Drop (Feet of Head)	4.5	5.7	6.1	6.5
<b>Physical Dimensions</b>				
Height (A)	56"	60"	70"	69"
Width (B)	20"	24"	24"	28"
Relief Valve: 3/4" NPT (C)	48 1/2"	52 1/4"	61 3/4"	60 1/4"
Boiler Water Supply	48 1/2"	52 1/4"	61 3/4"	60 1/4"
Boiler Water Return	25 1/4"	28"	28"	31 3/4"
Cold Water Inlet (F)	8 1/4"	9 1/4"	9 1/4"	9 1/4"
Shipping Weight (lbs.)	105	147	177	213
<b>Operating Data</b>				
	All Models			
Max Pressure (psi)	150			
Max Temperature (°F)	194			



### A Tradition of Excellence

The World's leader in heating technologies since 1825, Buderus produced the world's first low-temperature hydronic heating systems. Today, Buderus products are acknowledged as the world standard in high-efficiency, low emissions hydronic heating. All Buderus products are designed to meet strict safety and environmental regulations.

Buderus boilers are quick and easy to install and will outlast and outperform virtually any other hot water heating system. They are designed for easy access and service. With appropriate maintenance, Buderus boilers deliver the highest possible efficiencies throughout the lifespan of operation.

In 2008 Buderus became a member of the Bosch Group, representing the Bosch, Buderus and FHP brands with products that are designed to improve efficiency, reliability and are environmentally friendly. Bosch Thermotechnology offers floor-standing and wall hung boilers, water heaters, solar systems, heat pumps, control systems and tankless water heaters.

### Approvals and Certifications



Approval Numbers  
MAP # P1-1010-109