



BOSCH

Invented for life

Clean, pure, reliable
Hot Water

**Indirect Fired Domestic
Hot Water Tanks**



Thermoglaze Single and Dual Coil Tanks
Stainless Steel Single-Coil Tanks



The Bosch /Buderus Hot Water Advantage

In North America the average household spends around 30% of their energy costs on domestic hot water. 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 while saving money.

Our 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.



Thermoglaze Tank Features and Benefits

Buderus' patented Thermoglaze® ceramic material is thermally bonded to the internal components of the tank, providing a protective coating against the corrosive effects of minerals naturally existing in water.



Simple Maintenance and Reliable Operation

Buderus domestic hot water tanks offer features that provide for ease of installation, simple maintenance and reliable operation. All Thermoglaze models are equipped with a magnesium anode rod for protection against corrosion, a drain for easy maintenance, and have adjustable screw-on feet for leveling. An easy-access cover aids in cleaning and maintaining the coil and tank interior.



S and SU Series – Thermoglaze Single-Coil Tanks

Buderus' four single coil indirect DHW storage tank models S32, SU54, SU80 and SU100 offer easy installation and simple maintenance to provide excellent value at a competitive price.

- ▶ All tanks feature an aesthetic white cover design, patented Thermoglaze® enamel interior and magnesium anode rod for optimal service life
- ▶ Models SU80 and SU100 have a large front clean out port for easy maintenance and a second magnesium anode rod for extended tank life*
- ▶ Screw-on feet enable easy leveling of the tank
- ▶ Available capacities 30, 51, 77 and 98 gallons

*Consult Installation and Service Instructions for recommended maintenance



SM Series – Thermoglaze Dual-Coil Tanks

Buderus’ dual coil indirect DHW storage tanks, SM80 and SM100, are designed for solar and high performance applications.

- ▶ Two internal coils for connection to two heat sources; such as one solar thermal system and one boiler
- ▶ Features patented Thermoglaze® enamel interior
- ▶ Two magnesium anode rods for extended tank life
- ▶ Large front clean out port for easy service*
- ▶ Screw-on feet enable easy leveling of the tank
- ▶ Available capacities 75 and 97 gallons



LT Series – Thermoglaze Horizontal Single-Coil Tanks

Short on space? The LT horizontal tanks are designed to fit under Buderus boilers resulting in a smaller footprint.

- ▶ Horizontal design for small footprint
- ▶ Features patented Thermoglaze® enamel interior
- ▶ Quick recovery times
- ▶ Available capacities in 42, 52 and 76 gallons

All Thermoglaze tanks are equipped with the following additional features:

- ▶ Corrosion Protection – the Buderus Thermoglaze® process and standard magnesium anode rod(s) protect tank interior from corrosion caused by most types of water
- ▶ Economical – high density insulation for better temperature maintenance of stored hot water
- ▶ Heat exchanger has large surface area for excellent hot water recovery rates.



SST Series – Stainless Steel Single-Coil Tanks

The SST stainless steel indirect hot water tank has a welded and passivated 316L stainless steel interior and a 316L stainless steel single coil heat exchanger. This provides durability and resistance to the corrosive tendencies of domestic water.

- ▶ Stainless steel heating coil efficiently transfers high volumes of BTU’s
- ▶ Two inches of high density CFC/HCFC-free polyurethane foam with a tested R Value of 13.4 provide economical standby losses
- ▶ Available capacities 40, 67, 82 and 113 gallons

Indirect Fired Domestic Hot Water Tanks

Configuration		Vertical Single Coil Models				Vertical Dual Coil Models								Horizontal Single Coil Models		
Model	Unit of Measure	S32	SU54	SU80	SU100	SM80				SM100				LT160	LT200	LT300
Physical Data																
Tank Capacity	gal	30.0	51.3	77.4	98.4	75.4				96.9				42.6	52.5	76.0
Diameter	in	21 ³ / ₄	21 ³ / ₄	26 ³ / ₈	26 ³ / ₈	26 ³ / ₈				26 ³ / ₈				25 ³ / ₄	25 ³ / ₄	25 ³ / ₄
Height	in	38 ⁵ / ₈	60 ¹ / ₄	58 ⁷ / ₈	72 ¹ / ₄	58 ⁷ / ₈				72 ¹ / ₄				25 ³ / ₄	25 ³ / ₄	25 ³ / ₄
Length	in	-	-	-	-	-				-				36 ³ / ₄	42 ¹ / ₄	57 ³ / ₄
Connection Heat Exchanger Coil	in	³ / ₄	1	1	1	1				1				1	1	1
Connection DHW outlet	in	³ / ₄	1	1	1	1				1				1	1	1
Connection Cold Water Inlet	in	³ / ₄	1	1	1	1				1				1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄
Connection Recirculation	in	³ / ₄	³ / ₄	³ / ₄	³ / ₄	³ / ₄				³ / ₄				³ / ₄	³ / ₄	³ / ₄
Approx. Dry Weight	lbs	160	170	231.5	282	260				298				220	247	364
Max. DHW Temperature	°F	203	203	203	203	203				203				203	203	203
Max. DHW Operating Pressure	psi	150	150	150	150	150				150				150	150	150
Standby Heat Loss	°F/h*	1.0	0.4	0.5	0.4	0.6				0.5				0.6	0.6	0.4
Max. Heat Exchanger Coil Water Temperature	°F	230	230	230	230	230				230				212	212	212
Max. Heat Exchanger Coil Pressure	psi	232	232	232	232	232				232				232	232	232
Performance Data*						Lower Coil	Upper Coil	Dual Coil	Dual Coil, Parallel	Lower Coil	Upper Coil	Dual Coil	Dual Coil, Parallel			
Heat Input to Tank	MBH	88.0	84.9	119.2	143.9	112.4	78.2	178.8	156.7	169.1	87.9	235.4	202.9	76.1	83.0	126.3
Continuous Rating	gph	137	130	189	218	185	135	298	278	265	153	376	344	122	128	208
First Hour Rating	gph	165	180	264	312	257	135	363	345	356	153	462	434	163	176	276
Boiler Water Flow Rate	gpm	8.0	11.4	11.4	14.0	11.4	11.4	11.4	11.4	14.0	14.0	14.0	14.0	14.0	14.0	14.0
Coil Pressure Drop	ft of Head	1.9	2.4	2.7	3.8	2.5	1.8	3.2	1.4	5.8	3.5	10.2	2.1	2.4	2.8	3.3

Configuration		Stainless Steel Models			
Model	Unit of Measure	SST150-40	SST250-65	SST300-80	SST450-119
Physical Data					
Tank Capacity	gal	40	67	81.5	113.4
Diameter	in	20	24	24	28
Height	in	56	60	70	69
Length	in	-	-	-	-
Connection Heat Exchanger Coil	in	1	1	1	1
Connection DHW outlet	in	1	1.5	1.5	1.5
Connection Cold Water Inlet	in	1	1.5	1.5	1.5
Approx. Dry Weight (5% higher including packaging)	lbs	105	147	177	213
Max. DHW Temperature	°F	194			
Max. DHW Operating Pressure	psi	150			
Standby Heat Loss	°F/h*	0.9	0.7	0.6	0.5
Performance Data*					
Heat Input to Tank	MBH	115	154	171	216
Continuous Rating	gph	181	263	285	349
First Hour Rating	gph	208	327	358	459
Boiler Water Flow Rate	gpm	14	14	14	14
Coil Pressure Drop	ft of Head	4.5	5.7	6.1	6.5

* Performance data tested at 180°F (82.2°C) Boiler Supply Temperature, 58°F (14.4°C) Cold Water Inlet Temperature, 135°F (57.2°C) DHW Outlet Temp

NOTES:

1. All AHRI Certified Ratings are in BLUE Boldface Type
2. SM80 & SM100 are UPC, USEC and Low-Lead Certified by IAPMO R & T
3. S32, SU54, SU80, SU100, LT160, LT200, LT300 have UPC and Low-Lead Certification by IAPMO Research & Testing
4. Ratings in BLACK are outside the scope of AHRI-IWH Certification Program



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 75H995349 | 06/17