BUFFER TANK STORAGE TANK HYDRAULIC SEPARATOR

buffn



OPTIMIZE ANY TYPE OF HYDRONIC SYSTEM

The BuffMax from Thermo 2000 is a 3-in-1 solution that acts as a buffer tank, storage tank and hydraulic separator. It is recommended to optimize the performance of several different types of heating systems: low-mass boilers, biomass systems, geothermal and heat pump applications, multi-zone systems, and solar energy systems





BY REDUCING ON/OFF CYCLING, IT IMPROVES AND MAXIMIZES THE HEATING SYSTEM'S EFFICIENCY— ALL WHILE REDUCING MAINTENANCE AND REPAIR COSTS.

Standard equiments

- 2" HFC-free polyurethane insulation
- 150 psi maximum operating pressure (125 psi for ASME units)
- 4 openings for hydraulic separation
- Immersion well with multiple positions
- Tanks available in 8 sizes
- ASME models available
- Adjustable legs
- 10-year warranty for HT application and 5-year for CW application



Optional equipment

- Extra tappings
- Custom tapping diameters
- Flange connections
- Aquastat control
- Insulation for chilled water

1- Automatic air vent

- 2- Boiler water connection
- 3- Temperature and pressure indicator
- 4- 3/4" NPT drain valve
- 5- Immersion well
- 6- ¾"drain





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The tank that makes all the difference

BUFFER TANK

The **BuffMax**[®] optimizes runtimes and limits on/off cycling of the energy source. When the minimum system load is lower than the energy source's minimum capacity, the system will generate short cycles. This causes premature wear of the equipment and substantially decreases the system's energy efficiency.

STORAGE TANK

Any hydronic heating system with the **BuffMax**[®] stores energy like a battery. When a demand is made for limited heating (for example, when there is little difference between indoor and outdoor temperatures) or when it is used with a low-capacity energy source, the energy required will first come from the tank's thermal storage.

HYDRAULIC SEPARATOR

Adding a **BuffMax**[®] tank to a hydronic heating system helps to evacuate air, eliminate impurities and ensure the optimal functioning of the pumps—not only for the energy source but also for the distribution system.

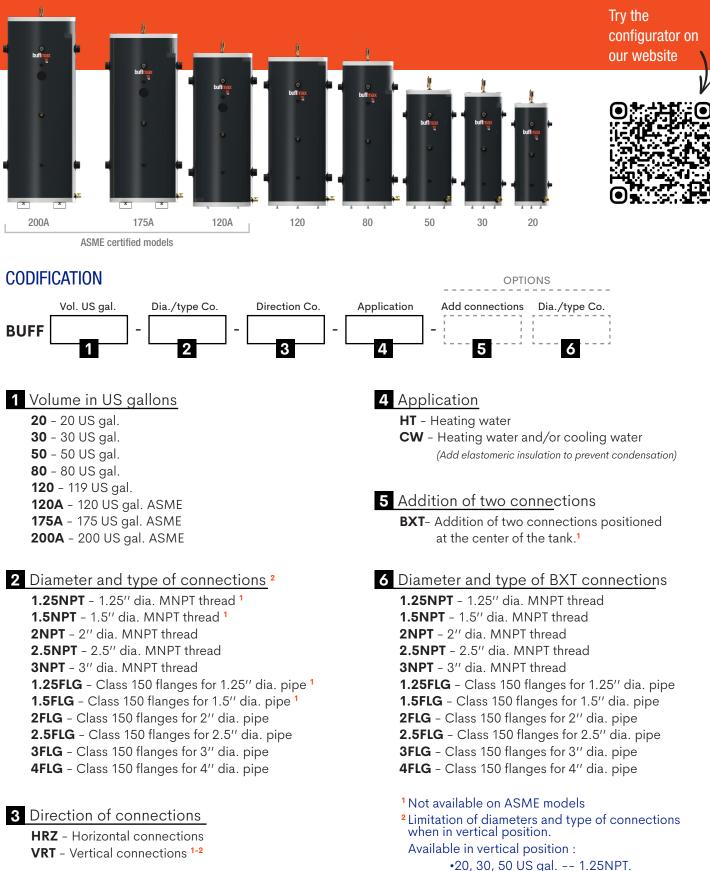
The **BuffMax®** tank is recommended to optimize the performance of several different types of heating systems :

- Low-mass boilers
- Biomass systems

- Multi-zone systems
- Solar energy systems
- Geothermal and heat pump applications



Build your Buffmax



•80, 120 US gal. -- 1.5NPT ou 2NPT

For fast and cost-effective delivery. STANDARD MODEL CODES

BuffMax 20 STD BUFF20 - 1.25NPT - HRZ - HT

BuffMax 30 STD BUFF30 - 1.5NPT - HRZ - HT

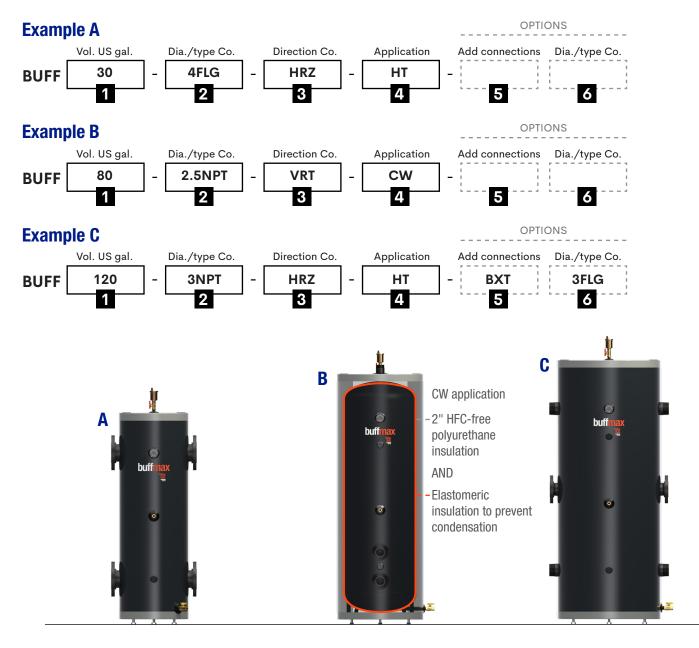
BuffMax 50 STD BUFF50 - 2NPT - HRZ - HT BuffMax 80 STD BUFF80 - 2.5NPT - HRZ - HT

BuffMax 120 STD BUFF120 - 3NPT - HRZ - HT

BuffMax 120A STD BUFF120A - 3NPT - HRZ - HT BuffMax 175A STD BUFF175A - 3NPT - HRZ - HT

BuffMax 200A STD BUFF200A - 3NPT - HRZ - HT

BuffMax Configuration Examples MODELS BUILT TO MEET YOUR NEEDS, YOUR PROJECT.



SELECTING THE RIGHT SIZE

The buffer tank size is selected to ensure a minimum runtime for the boiler. Use the following equation to determine the right size for the application:



- Desired runtime: the minimum runtime of the boiler (in minutes), typically between 5 and 10 minutes
- Minimum output: the boiler's minimum capacity (BTU/h)
- Minimum system load: the building's smallest heat demand (BTU/h)
- System Delta T: the temperature differential in degrees Fahrenheit between the tank's inlet and outlet, typically between 10°F and 20°F.



MODELS AND SPECS

MODEL	CODE	VOLUME US GAL	А	В	С	D	Е	STANDARD CONNECTIONS	WEIGHT LB
BUFFMAX 20	BUFF20 - 1.25NPT - HRZ - HT	20	49 1/2"	16"	19 5/16"	39 11/16"	11 3/16"	1 1/4" NPT	100
BUFFMAX 30	BUFF30 - 1.5NPT - HRZ - HT	30	54 1/2"	18"	21 5/16"	44 3/16"	11 11/16"	1 1/2" NPT	125
BUFFMAX 50	BUFF50 - 2NPT - HRZ - HT	50	55 5/8"	22"	25 5/16"	44"	13"	2" NPT	160
BUFFMAX 80	BUFF80 - 2.5NPT - HRZ - HT	80	69 3/16"	24"	28 1/4"	57 1/16"	13 9/16"	2 1/2" NPT	245
BUFFMAX 120	BUFF120 - 3NPT - HRZ - HT	119	71 1/8"	28"	32 1/4"	58 1/16"	14 9/16"	3" NPT	330
BUFFMAX 120A	BUFF120A - 3NPT - HRZ - HT	120	72 15/16"	28"	32 1/4"	60"	17"	3" NPT	335
BUFFMAX 175A	BUFF175A - 3NPT - HRZ - HT	175	82 1/16"	32"	36 1/4"	67 1/8"	20 1/2"	3" NPT	595
BUFFMAX 200A	BUFF200A - 3NPT - HRZ - HT	200	89 15/16"	32"	36 3/16"	74 15/16"	20 7/16"	3" NPT	650

10-YEAR WARRANTY FOR HT APPLICATION 5-YEAR WARRANTY FOR CW APPLICATION ON THE TANK

2-YEAR WARRANTY ON MECHANICAL PARTS





THERMO 2000 Inc. 500 9° Avenue Richmond, (Qc) JOB 2H0 CANADA

1 888 854-1111 Toll-free 819 826-5613 Telephone

thermo2000.com