OPTIMIZE ANY TYPE OF HYDRONIC SYSTEM

TEMPERATURE AND PRESSURE INDICATOR

AUTOMATIC AIR VENT

LARGE-DIAMETER CONNECTIONS

AVAILABLE FROM 30 - 200 US GALLONS

ASME CERTIFICATION*

10-YEAR WARRANTY
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, eliminates impurities, and ensures the optimal functioning of the pumps—not only for the energy source but also for the distribution system.

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**STANDARD EQUIPMENT**

- 2" insulation
- 150 psi maximum operating pressure (125 psi for ASME units)
- 4 openings for hydraulic separation
- Immersion well with multiple positions
- Tanks available in 7 sizes
- ASME models available*
- Adjustable legs
- 10-year warranty

**OPTIONAL EQUIPMENT**

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

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*ASME models available for high temperature applications.
### MODELS AND SPECS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLUME (US GAL.)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>STANDARD CONNECTIONS</th>
<th>WEIGHT (LB)</th>
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<tbody>
<tr>
<td>BUFFMAX 30</td>
<td>20</td>
<td>56.25”</td>
<td>18”</td>
<td>21.5”</td>
<td>46.25”</td>
<td>13.25”</td>
<td>1 1/2” NPT</td>
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<td>57.25”</td>
<td>22”</td>
<td>25.5”</td>
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<td>13.75”</td>
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<td>80</td>
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<td>61”</td>
<td>14”</td>
<td>2 1/2” NPT</td>
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<td>BUFFMAX 200A*</td>
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<td>19.75”</td>
<td>3” NPT</td>
<td>540</td>
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</table>

### 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:

\[
\text{Tank capacity (US gallon)} = \frac{\text{Desired run time \times (Minimum output – Minimum system load)}}{\text{(System Delta T \times 500)}}
\]

- Desired runtime: The minimum runtime of the boiler in minutes, 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

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Thermo 2000 manufactures peak-performance heating systems for domestic hot water and hydronic heating systems. Since 1978, the company’s innovations have provided sustainable solutions for residential, commercial and institutional applications.