Field Engineered... Process Proven

ZERO MAINTENANCE

ENHANCED SAFETY

WATER CONSERVATION

PERFORMANCE AND DURABILITY GUARANTEE
ZERO MAINTENANCE OR SERVICE PARTS

Every unit installed since 2008 has operated with ZER0 maintenance or service parts while operating in difficult slurry applications.
- No motors, shafts, seals, bearings, gearboxes or other rotating, sliding or close fitting wear parts.

WATER CONSERVATION

- Transport any flowable or semi-flowable material with little or no water addition. In applications where water may be required to assist with product movement, water usage is reduced.
- Automatic internal cleaning only when required.
- Automatic slurry thinning only when required.
- Discharge line purge function using air and/or water.

ENVIRONMENTALLY FRIENDLY

- No lubricants of any kind (oil or grease) required.
- Use water only when needed.

TRANSPORT PIPELINE-SIZE SOLIDS

Up to 6” (150 mm) diameter for standard units. Larger sizes are available.

“PLUG-N-RUN” READY OUT OF THE BOX

Factory supplied controls and instrumentation included. No assembly required.

HISTORY

The VUMP was conceived as a replacement for high maintenance progressive cavity pumps in difficult sludge, slurry and solids laden fluid applications.

The VUMP was in development for nine years, with five of those years operating prototypes on the floor of an international potato processor. In real working applications. Using the field installation experience and the feedback of operations and maintenance personnel, the VUMP was improved, the design validated and application potential expanded.

The VUMP is patent pending in over 140 countries and is available globally.

VUMP...what is it ?

The VUMP is an integrated electro-pneumatic Vacuum assisted pump, instrumentation and control system designed to transport sludge, slurry and solids laden fluids in a totally contained environment.

The VUMP has proven it can replace progressive cavity and other positive displacement pumps, screw augers, conveyors and manual waste removal systems while providing a safe, totally enclosed transport system that has zero maintenance and the ability to significantly reduce water used for waste transport.

The VUMP is available in industrial and sanitary configurations.

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# VUMP Model Numbering Convention


<table>
<thead>
<tr>
<th>VARIABLE</th>
<th>DESCRIPTION</th>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>X1</td>
<td>Model</td>
<td>I: VUMP Industrial</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S: VUMP Sanitary</td>
</tr>
<tr>
<td>X2</td>
<td>Inlet Size</td>
<td>3: 3”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4: 4”</td>
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<tr>
<td></td>
<td></td>
<td>6: 6”</td>
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<tr>
<td></td>
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<td>8: 8”</td>
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<tr>
<td>X3</td>
<td>Body Size</td>
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<tr>
<td></td>
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<td>6: 6”</td>
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<tr>
<td></td>
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<td>10: 10”</td>
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<td></td>
<td></td>
<td>18: 18”</td>
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<tr>
<td>X4</td>
<td>Outlet Size</td>
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<td>6: 6”</td>
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<tr>
<td></td>
<td></td>
<td>8: 8”</td>
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<tr>
<td>X5</td>
<td>Material of Construction: Body and &quot;T&quot; Section</td>
<td>ST: Steel SS: 316 Stainless Steel</td>
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<td></td>
<td></td>
<td>Stainless Steel SS4: 304</td>
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<tr>
<td>X6</td>
<td>Material of Construction: Check Valves</td>
<td>ST: Steel SS: 316 Stainless Steel</td>
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<td></td>
<td></td>
<td>SS4: 304 Stainless Steel</td>
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<tr>
<td></td>
<td></td>
<td>BZ: Bronze</td>
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<tr>
<td>X7</td>
<td>Gasket Material</td>
<td>E: EPDM</td>
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<tr>
<td></td>
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<td>V: Viton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B: Buna</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T: PTFE (Teflon)</td>
</tr>
<tr>
<td>X8</td>
<td>Check Style</td>
<td>C: Cutter Flap</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S: Standard Flap</td>
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<tr>
<td></td>
<td></td>
<td>N: Non-repairable one piece</td>
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<tr>
<td>X9</td>
<td>Connections Available</td>
<td>A: 150 lb ANSI Flange</td>
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<td>TC: Sanitary triclamp</td>
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<tr>
<td>X10</td>
<td>Controls Level</td>
<td>L1: Level 1 control</td>
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<tr>
<td></td>
<td></td>
<td>L2: Level 2 control</td>
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<tr>
<td></td>
<td></td>
<td>L3: Level 3 control</td>
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<tr>
<td>X11</td>
<td>Control Box Enclosure</td>
<td>SS: Stainless Steel</td>
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<td></td>
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<td>PS: Painted Steel</td>
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<tr>
<td></td>
<td></td>
<td>SS4: 304 Stainless Steel</td>
</tr>
<tr>
<td>X12</td>
<td>Mounting Option</td>
<td>F: Floor Mounted VUMP with Wall Mounted valves and controls</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S: Stand with VUMP, valves and controls pre-wired</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C: Mobil cart with receiving hopper, VUMP, valves and controls mounted and pre-wired</td>
</tr>
<tr>
<td>X13</td>
<td>Additional Specifications</td>
<td>Optional requirement</td>
</tr>
</tbody>
</table>

## Contact

184 Halifax Street  
Moncton, NB  E1C 9S2  
1 506.860.7867  
www.thunderpg.com