## Product Index

<table>
<thead>
<tr>
<th>Item/Product</th>
<th>Page</th>
<th>Eff. Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Terms and Conditions</strong></td>
<td>v</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>Wessels Tanks at a Glance!</strong></td>
<td>vi</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>Air &amp; Dirt Elimination Equipment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Non-ASME</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPA – Tangential Air Separators (No Strainer)</td>
<td>1.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>SPA-S – Tangential Air Separators (W/ Strainer)</td>
<td>1.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>AP – In-Line Air Purgers</td>
<td>1.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WVN-N – Wess-Vent Air &amp; Dirt Sep. (Non-Removable)</td>
<td>1.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WVNA – Wess-Vent Air Eliminator</td>
<td>1.4</td>
<td>10/1/16</td>
</tr>
<tr>
<td>CFS – Centrifugal Solids Separator</td>
<td>1.7</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>ASME</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WVA – Wess-Vent Air &amp; Dirt Separators</td>
<td>1.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WVA Trim Package</td>
<td>1.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WVAN – Wess-Vent Air &amp; Dirt Sep. (Non-Removable)</td>
<td>1.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WVAA – Wess-Vent Air Eliminator</td>
<td>1.5</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WVAD – Wess-Vent Dirt Eliminator</td>
<td>1.6</td>
<td>10/1/16</td>
</tr>
<tr>
<td>CFA – Centrifugal Solids Separator</td>
<td>1.7</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>Buffer Tanks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Quick Sizing</strong> CBT Chilled Water Buffer Tanks</td>
<td>2.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>ASME</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CBT – Chilled Water Buffer Tanks</td>
<td>2.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>HBT – Hot Water Buffer Tanks</td>
<td>2.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>Filtration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Quick Sizing</strong> Filtration Vessels</td>
<td>3.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>Filters</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AB Series – Cartridge Filter</td>
<td>3.2-3.5</td>
<td>10/1/16</td>
</tr>
<tr>
<td>Platinum Series – Bag Filter</td>
<td>3.6</td>
<td>10/1/16</td>
</tr>
<tr>
<td>740 Platinum Series – Cartridge Filter</td>
<td>3.7</td>
<td>10/1/16</td>
</tr>
<tr>
<td>940 Platinum Series – Cartridge Filter</td>
<td>3.8</td>
<td>10/1/16</td>
</tr>
<tr>
<td>2040 Platinum Series – Cartridge Filter</td>
<td>3.9</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>Non-ASME</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TFS – Typhoon Filtration System (Filter Included)</td>
<td>3.10</td>
<td>10/1/16</td>
</tr>
<tr>
<td>4NCF – Stainless Cartridge Filter Vessels</td>
<td>3.12</td>
<td>10/1/16</td>
</tr>
<tr>
<td>4NBF – Bag Filter Vessels</td>
<td>3.14</td>
<td>10/1/16</td>
</tr>
</tbody>
</table>
FILTRATION (CONT’D)

ASME

TFA – TYPHOON FILTRATION SYSTEM (FILTER INCLUDED) 3.10 10/1/16
CF – CARTRIDGE VESSELS 3.11 10/1/16
BF – BAG VESSELS 3.14 10/1/16
HP – HIGH PRESSURE CARTRIDGE VESSELS 3.16 10/1/16
HFH – HORIZONTAL HIGH FLOW CARTRIDGE VESSELS 3.17 10/1/16
HFV – VERTICAL HIGH FLOW CARTRIDGE VESSELS 3.17 10/1/16

ASME STAINLESS STEEL

4/6CF – CARTRIDGE VESSELS 3.12-3.13 10/1/16
4/6BF – BAG VESSELS 3.15 10/1/16
6HP – HIGH PRES. CARTRIDGE VESSELS 3.16 10/1/16
4HFH – HORZ. HIGH FLOW CARTRIDGE VESSELS 3.18 10/1/16
4HFV – VERT. HIGH FLOW CARTRIDGE VESSELS 3.18 10/1/16
6HFH – HORZ. HIGH FLOW CARTRIDGE VESSELS 3.19 10/1/16
6HFV – VERT. HIGH FLOW CARTRIDGE VESSELS 3.19 10/1/16

FX – HYDRO-PNEUMATIC TANKS

QUICK SIZING HYDRO-PNEUMATIC TANKS 4.1 10/1/16

NON-ASME

FX-SERIES – REMOVABLE BLADDER TANKS 4.2 10/1/16

ASME

FXT-SERIES – FIXED DIAPHRAGM TANKS 4.3 10/1/16
FXA-WG – SMART TANK SERIES WITH WESSGUARD® 4.3 10/1/16
FXA 125 PSIG – REMOVABLE BLADDER TANKS 4.4 10/1/16
FXA-HP 200 PSIG – REMOVABLE BLADDER TANKS 4.5 10/1/16
FXA-HP 250 PSIG – REMOVABLE BLADDER TANKS 4.5 10/1/16

WESSGUARD® RETROFIT FOR FXA TANKS 4.6 10/1/16

REPLACEMENT BLADDERS FOR FX & FXA-SERIES TANKS 4.7 10/1/16

GLYCOL MAKE-UP PACKAGES

GLYMATIC – SINGLE SYSTEM PACKAGE 5.1 10/1/16
GMP – SINGLE SYSTEM PACKAGE 5.1 10/1/16
GMPD – DUAL SYTEM/SINGLE PACKAGE 5.1 10/1/16
GMPT – TWIN PUMP W/ALTERNATOR PACKAGE 5.1 10/1/16

HEAT EXCHANGERS

NON-ASME and ASME

WESPLATE® – PLATE AND FRAME "AHRI CERTIFIED" 6.1-6.2 10/1/16
WESPAC® – BRAZED PLATE 6.3 10/1/16
WESTUBE® – SHELL AND TUBE 6.4 10/1/16
# PRODUCT INDEX

<table>
<thead>
<tr>
<th>ITEM/PRODUCT</th>
<th>PAGE</th>
<th>EFF. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDRONIC ACCESSORIES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPFT – CHEMICAL POT FEEDER TANKS</td>
<td>7.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WCN – CONDENSATE NEUTRALIZER</td>
<td>7.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>N – HYDRONIC EXPANSION TANKS</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>QUICK SIZING EXPANSION TANKS</strong></td>
<td>8.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NON-ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-SERIES – FIXED DIAPHRAGM TANKS</td>
<td>8.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NL-SERIES – REMOVABLE BLADDER TANKS</td>
<td>8.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NA – PLAIN STEEL COMPRESSION TANKS</td>
<td>8.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NAG – GALVANIZED STEEL COMPRESSION TANKS</td>
<td>8.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NTA – FIXED DIAPHRAGM TANKS</td>
<td>8.4</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NLAP – TOP OUTLET REMOVABLE BLADDER TANKS</td>
<td>8.4</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NLA-WG – SMART TANK SERIES WITH WESSGUARD®</td>
<td>8.5</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NLA 125 PSIG – REMOVABLE BLADDER TANKS</td>
<td>8.6</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NLA-HP 200 PSIG – REMOVABLE BLADDER TANKS</td>
<td>8.7</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NLA-HP 250 PSIG – REMOVABLE BLADDER TANKS</td>
<td>8.7</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NVA 125 PSIG – REMOVABLE BLADDER TANKS</td>
<td>8.8</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WESSIONGUARD® RETROFIT FOR NLA TANKS</td>
<td>8.9</td>
<td>10/1/16</td>
</tr>
<tr>
<td>REPLACEMENT BLADDERS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NL &amp; NLA TANKS</td>
<td>8.10</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NLAP &amp; NVA TANKS</td>
<td>8.11</td>
<td>10/1/16</td>
</tr>
<tr>
<td>PRIMARY / SECONDARY HEADERS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSA – 150 PSIG WITH BAFFLES</td>
<td>9.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>PSAV – 150 PSIG WITH WESSIONGUARD® VENT MEDIA</td>
<td>9.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>PSAVR – 150 PSIG WITH REMOVABLE WESSIONGUARD® VENT MEDIA</td>
<td>9.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>SEVERE SERVICE PRODUCTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS-AP – STAINLESS IN-LINE AIR PURGERS</td>
<td>10.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>SS-SPA – STAINLESS AIR SEP. (NO STRAINER)</td>
<td>10.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>SS-SPA-S – STAINLESS AIR SEP. (W/STRAINER)</td>
<td>10.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>SSNA – STAINLESS COMPRESSION TANKS</td>
<td>10.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>SSCFS – STAINLESS CENTRIFUGAL SOLIDS SEP.</td>
<td>10.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td>SSFXA – STAINLESS REMOVABLE BLADDER TANKS</td>
<td>10.4</td>
<td>10/1/16</td>
</tr>
<tr>
<td>EPFXA – EPOXY-LINED REMOVABLE BLADDER TANKS</td>
<td>10.5</td>
<td>10/1/16</td>
</tr>
<tr>
<td>ITEM/PRODUCT</td>
<td>PAGE</td>
<td>EFF. DATE</td>
</tr>
<tr>
<td>--------------</td>
<td>------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>SHOCK &amp; SURGE TANKS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASME</td>
<td>11.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>SSA-SERIES – REMOVABLE BLADDER TANKS</td>
<td>11.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>STEAM ACCESSORIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QUICK SIZING FTA FLASH TANKS</td>
<td>12.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>ASME</td>
<td>12.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>FTA – STEAM CONDENSATE FLASH TANKS</td>
<td>12.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>BDT – STEAM BLOWDOWN TANKS</td>
<td>12.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>STORAGE TANKS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GA-SERIES – GLASS, JACKETED &amp; INSULATED TANKS</td>
<td>13.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>GA-SERIES – GLASS, NON-JACKETED TANKS</td>
<td>13.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>EPA-SERIES – EPOXY, NON-JACKETED</td>
<td>13.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>CUSTOM – STORAGE TANK W/ STANDARD FITTINGS</td>
<td>13.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td>CUSTOM – FITTINGS, OPENINGS &amp; BASE OPTIONS</td>
<td>13.4</td>
<td>10/1/16</td>
</tr>
<tr>
<td>CUSTOM – TUBE BUNDLE OPTION</td>
<td>13.5</td>
<td>10/1/16</td>
</tr>
<tr>
<td><strong>T – THERMAL EXPANSION TANKS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QUICK SIZING THERMAL EXPANSION TANKS</td>
<td>14.1</td>
<td>10/1/16</td>
</tr>
<tr>
<td>NON-ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T-SERIES – FIXED DIAPHRAGM TANKS</td>
<td>14.2</td>
<td>10/1/16</td>
</tr>
<tr>
<td>TX-SERIES – REMOVABLE BLADDER TANKS</td>
<td>14.4</td>
<td>10/1/16</td>
</tr>
<tr>
<td>ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TXA-WG – SMART TANK SERIES WITH WESSGUARD®</td>
<td>14.3</td>
<td>10/1/16</td>
</tr>
<tr>
<td>TTA-SERIES – FIXED DIAPHRAGM TANKS</td>
<td>14.4</td>
<td>10/1/16</td>
</tr>
<tr>
<td>TXA-SERIES – REMOVABLE BLADDER TANKS</td>
<td>14.5</td>
<td>10/1/16</td>
</tr>
<tr>
<td>TXA-FF – FULL FLOW (FLOW-THROUGH)</td>
<td>14.5</td>
<td>10/1/16</td>
</tr>
<tr>
<td>WESSGUARD® RETROFIT FOR TXA TANKS</td>
<td>14.6</td>
<td>10/1/16</td>
</tr>
<tr>
<td>REPLACEMENT BLADDERS FOR TX &amp; TXA-SERIES TANKS</td>
<td>14.7</td>
<td>10/1/16</td>
</tr>
</tbody>
</table>
MINIMUM ORDER: $50 net shipped to one location.

PRICES: Prices and terms are subject to change without notice. Expedite fees may be applicable – Consult factory

TAXES: Applicable taxes apply separately.

FREIGHT TERMS: All orders are F.O.B. Factory.

PAYMENT TERMS: Terms are Net 30 Days to pre-approved accounts. New accounts must be pre-paid or by credit card until credit is approved. Any accounts over 45 days past due will be placed on credit hold until account is current.

CREDIT APPROVAL: Purchases are subject to credit investigation and approval.

LIMITED WARRANTY: Wessels Co. warrants that its products are of the kind and quality quoted and warrants these products to be free of defective material and/or workmanship only. This warranty is not applicable to operational failures, gasket leaks or malfunctions caused by improper application, installation and/or maintenance. Warranty not applicable if electrolysis condition or abnormal water condition exists. Anode inspection of glass lined storage tanks is required every 6 months. Wessels Co. requires paid receipts to show maintenance of anodes on glass lined tank claims.

Any claim for adjustment under this Limited Warranty must be made within the Warranty period (see below). Wessels Co. shall replace or repair at its option, all parts which upon examination by Wessels Co. prove to be defective material and/or workmanship within the above Limited Warranty. If required by Wessels Co., parts that are claimed defective must be promptly delivered to the Wessels Co. manufacturing facility, transportation charges prepaid. Wessels Co. will not however, accept any claims for labor costs incurred by the user in removing or reinstalling a product and/or part thereof. This warranty does not apply if the defect is due to failure to use the product for its intended purpose, the result of an accident, abuse, misuse or unauthorized alteration, or because the product was not installed and maintained in accordance with standard plumbing practices. However, any and all costs required to ship, disassemble, remove, reassemble, reinstall a bladder and/or tank, shall not be borne by the Wessels Co. and IS NOT COVERED under this warranty. IN NO EVENT SHALL WESSELS CO. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Any implied warranties which the user may have including merchantability and fitness for a particular purpose, shall not extend beyond the period (see below) from date of manufacture of any product. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

WARRANTY PERIODS: 1 YEAR FROM DATE OF SHIPMENT: All Wessels Co. products (except N-style, T-style and glass-lined storage tanks) when used on applications for which they are intended.

5 YEARS FROM DATE OF SHIPMENT: Non-code T-style Thermal Expansion Tanks, non-code N-style expansion tanks, Glass-lined Storage Tanks for potable water without coils, heating devices or burners and temperatures not exceeding 180 degrees Fahrenheit.

WARRANTY RETURN: A return authorization number is required on all material returned for warranty. All freight charges are the responsibility of the shipper.

PRODUCT RETURN: A return authorization number is required on all material returned. A 25% re-stocking charge will apply (minimum of $50 restocking charge).

PRODUCT CHANGES: We reserve the right to change or modify product design or construction without prior notice and without incurring any obligation to make such changes and modifications of products previously or subsequently sold.
## WESSELS TANKS
### At a Glance!

<table>
<thead>
<tr>
<th>NON-ASME</th>
<th>HVAC</th>
<th>THERMAL</th>
<th>HYDRO-PNEUMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Compression</td>
<td>CUSTOM ORDER (pg 11.3)</td>
<td>CUSTOM ORDER (pg 11.3)</td>
</tr>
<tr>
<td></td>
<td>Diaphragm</td>
<td>N (pg 8.2)</td>
<td>T (pg 14.2)</td>
</tr>
<tr>
<td></td>
<td>Removable Bladder</td>
<td>NL (pg 8.2)</td>
<td>TX (pg 14.2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASME</th>
<th>HVAC</th>
<th>THERMAL</th>
<th>HYDRO-PNEUMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Compression</td>
<td>NA (pg 8.3)</td>
<td>CUSTOM ORDER (pg 11.3)</td>
</tr>
<tr>
<td></td>
<td>Diaphragm</td>
<td>NTA (pg 8.4)</td>
<td>TTA (pg 14.4)</td>
</tr>
<tr>
<td></td>
<td>Removable Bladder</td>
<td>NLAP (pg 8.4)</td>
<td>NLA (pg 8.6 - 8.7)</td>
</tr>
</tbody>
</table>
Air elimination equipment is used to separate entrained air in water through forced flow patterns. Air is collected and eliminated through an air vent connection located at the separator top. Typically used in HVAC hydronic heating and chilled water systems.

### LESS STRAINER

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Size</th>
<th>Type</th>
<th>Height</th>
<th>Width</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 2</td>
<td>72006019</td>
<td>2</td>
<td>NPT</td>
<td>22 1/2</td>
<td>16 5/8</td>
<td>56</td>
<td>50</td>
</tr>
<tr>
<td>SPA 2.5</td>
<td>72006025</td>
<td>2 1/2</td>
<td>NPT</td>
<td>22 1/2</td>
<td>16 5/8</td>
<td>90</td>
<td>55</td>
</tr>
<tr>
<td>SPA 3</td>
<td>72006030</td>
<td>3</td>
<td>FLNG</td>
<td>22 1/2</td>
<td>19 3/4</td>
<td>190</td>
<td>60</td>
</tr>
<tr>
<td>SPA 4</td>
<td>72006035</td>
<td>4</td>
<td>FLNG</td>
<td>32</td>
<td>21 3/4</td>
<td>300</td>
<td>148</td>
</tr>
<tr>
<td>SPA 5</td>
<td>72016036</td>
<td>5</td>
<td>FLNG</td>
<td>32</td>
<td>21 3/4</td>
<td>530</td>
<td>191</td>
</tr>
<tr>
<td>SPA 6</td>
<td>72016060</td>
<td>6</td>
<td>FLNG</td>
<td>44</td>
<td>28</td>
<td>850</td>
<td>191</td>
</tr>
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Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F
Finish = Primer Painted Exterior

FOR STAINLESS STEEL VERSIONS GO TO PAGE 10.1
AIR & DIRT ELIMINATION EQUIPMENT

AP INLINE AIR PURGERS – Non-ASME

AIR PURGERS – FABRICATED STEEL

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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

WVA WESS-VENT AIR & DIRT SEPARATORS – ASME

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Sizes available up to 36” – Consult Factory for Pricing
WVA WESS-VENT TRIM PACKAGES

Model WVA-2 Thru WVA-36

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Includes: Air Vent, Skim Valve, and Blow Down Valve.

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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

High Velocity Models Available up to 36” – Consult Factory for Pricing

WVAN WESS-VENT NON-REMOVABLE – ASME

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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

High Velocity Models Available up to 36” – Consult Factory for Pricing

2016
**WVNA WESS-VENT AIR ELIMINATOR – Non-ASME**

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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

**HIGH VELOCITY MODELS**

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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36” – Consult Factory for Pricing
AIR & DIRT ELIMINATION EQUIPMENT

WVAA WESS-VENT AIR ELIMINATOR – ASME

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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

HIGH VELOCITY MODELS

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<tr>
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<th>Height</th>
<th>Width</th>
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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36” – Consult Factory for Pricing
## WVAD WESS-VENT DIRT ELIMINATOR – ASME

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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

### HIGH VELOCITY MODELS

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<th>Width</th>
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Materials = Steel; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 250°F; Finish = Primer Painted Exterior; Trim not included.

Models Available up to 36” – Consult Factory for Pricing
### CFS Centrifugal Solids Separator

**Carbon Steel – Low Flow Design – 150 PSI**

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Materials = Carbon Steel Shell, Carbon Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models

### CFA Centrifugal Solids Separator – ASME

**Carbon Steel – Low Flow Design – 150 PSI**

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Materials = Carbon Steel Shell, Carbon Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models
BUFFER TANKS

SIZING CHILLED-WATER BUFFER TANKS

To properly size a chilled-water buffer tank, three critical pieces of information are required:

- Total Chiller Capacity (Tons)
- Chiller Manufacturer’s Recommended System Volume per Ton of Capacity (in gal. per ton)
- Actual System Volume (in gallons)

Use the following form to calculate tank size:

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<th>Total Chiller Capacity</th>
<th>Manufacturer's Recommended System Volume Per Ton</th>
<th>Critical System Volume</th>
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<td>Tons</td>
<td>Gal./Ton</td>
<td>Gallons</td>
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</table>

<table>
<thead>
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<th>Critical System Volume</th>
<th>Actual System Volume</th>
<th>Total Buffer Tank Size</th>
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<td>Gallons</td>
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CBT CHILLED WATER BUFFER TANKS – ASME

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Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer; ¾” NPT Top Vent Connection; 1” NPT Bottom Drain Connection; Also Available With 1” to 2-1/2” NPT System Connections, Up To 20” Flange System Connections, and Higher Working Pressures – Consult Factory.
## HOT WATER BUFFER TANKS – 2 Ports

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## HOT WATER BUFFER TANKS – 4 Ports

### Connection Sizes

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Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer; ¾" NPT Top Vent Connection; 1" NPT Bottom Drain Connection; Also Available with 1" to 2-1/2" NPT System Connections, Up To 20" Flange System Connections, and Higher Working Pressures – Consult Factory.
Filtration vessels and filter media enable the physical or mechanical process of separating insoluble particulate matter from a fluid, such as air or liquid, by passing the fluid through a filter medium that will not let the particulates through.

Typical Markets & Applications:

<table>
<thead>
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<th>Market</th>
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**SIZING FILTRATION VESSELS**

Wessels offers a vast array of filtration vessels designed for use in various markets such as HVAC, Industrial, Oil & Gas, Petrochemical, Water (potable, RO, process), etc. Please use the following sizing chart to assist in selecting the proper vessel series based on your system flow rate.
# AB SERIES CARTRIDGE FILTER

2.5 INCH OD, 40 INCH LONG, 222 O-RING STYLE

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#### FILTER MODIFIER GUIDE:
- **CARTRIDGE SERIES**: AB = CONVENTIONAL
- **DIAMETER CODE**:
  - BLANK = 2.5" OD
  - P = 3.0" OD
  - X = 3.75" OD (222 O-RING)
  - Y = 3.75" OD (139 O-RING)
  - Z = 3.75" OD (134 O-RING)
- **LENGTH**: 1 = 10"
  - 2 = 29.75"
  - 3 = 36"
  - 4 = 40"
  - 9 = 20"
- **END CAP**: 1 = DOE
  - 2 = O-RING
  - 3 = SPRING
  - 7 = FIN
- **MEDIA**:
  - C = CELLULOSE
  - G = GLASS
  - P = POLYPROPYLENE
  - R = POLYESTER
- **MICRON RATING @ BETA 5000**:
  - 1/2 = 0.5 MICRON
  - 02 = 2 MICRON
  - 05 = 5 MICRON
  - 10 = 10 MICRON
  - 20 = 20 MICRON
  - 40 = 40 MICRON
  - 70 = 70 MICRON

---

PAGE 3.3

Wessels Company

2016
### AB SERIES CARTRIDGE FILTER (CONT’D)

#### 3 INCH OD, 36 INCH LONG, SPRING STYLE

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## AB SERIES CARTRIDGE FILTER (CONT’D)

3.75 INCH OD, 40 INCH LONG, 222 O-RING STYLE

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### CARTRIDGE SERIES

- **AB** = CONVENTIONAL

### MICRON RATING @ BETA 5000

- **1/2** = 0.5 MICRON
- **02** = 2 MICRON
- **05** = 5 MICRON
- **10** = 10 MICRON
- **20** = 20 MICRON
- **40** = 40 MICRON
- **70** = 70 MICRON

### DIAMETER CODE

- BLANK = 2.5” OD
- P = 3.0” OD
- X = 3.75” OD (222 O-RING)
- Y = 3.75” OD (139 O-RING)
- Z = 3.75” OD (134 O-RING)

### LENGTH

- 1 = 10”
- 2 = 29.75”
- 3 = 36”
- 4 = 40”
- 9 = 20”
- X = CUSTOM

### END CAP

- 1 = DOE
- 2 = O-RING
- 3 = SPRING
- 7 = FIN

### MEDIA

- **C** = CELLULOSE
- **G** = GLASS
- **P** = POLYPROPYLENE
- **R** = POLYESTER
### PLATINUM SERIES BAG FILTER

**6.25 INCH OD, 20 INCH LONG, 650 SERIES**

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**FILTER MODIFIER GUIDE:**

- **BAG TYPE**
  - PS = PLATINUM SERIES
- **BAG SIZE**
  - 6 = 6.25" O.D.
  - 20 = 20"
- **MICRON RATING @ 99.98% EFFICIENCY**
  - 0 = 0.5 MICRON
  - 1 = 2 MICRON
  - 3 = 5 MICRON
  - 5 = 10 MICRON
  - 7 = 20 MICRON
  - 8 = 40 MICRON
  - 9 = 70 MICRON
- **MEDIA**
  - G = GLASS
  - P = POLYPROPYLENE
  - R = POLYESTER
- **BAG SEAL (EPDM)**
  - 1 = ROSEDALE
  - 2 = FSI (SNAP RING)
  - 3 = FSI (W/O RING)
  - 5 = 3M, FILTRATION SYSTEMS
  - A = COMMERCIAL FULFLO
  - G = PLENTY
  - HM = HAYWARD MULTIBAG

---

Since 1936

Wessels Company

2016

PAGE 3.6
### 740 PLATINUM SERIES CARTRIDGE FILTER

**6.25 INCH OD, 38 INCH LONG, 226 O-RING STYLE**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Micron</th>
<th>Media</th>
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<th>Wt. (lbs)</th>
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**FILTRATION MODIFIER GUIDE:**

- **MICRON RATING @ BETA 5000**
  - 0 = 0.5 MICRON
  - 1 = 2 MICRON
  - 3 = 5 MICRON
  - 5 = 10 MICRON
  - 7 = 20 MICRON
  - 8 = 40 MICRON
  - 9 = 70 MICRON

- **SERIES NUMBER**
  - 740 = CARTRIDGE (6.25" OD)

- **LENGTH**
  - 40 = 37.875" (30 = 29.75")

- **FILTER SEAL (EPDM)**
  - 226 = O-RING

- **MEDIA**
  - C = CELLULOSE
  - G = GLASS
  - P = POLYPROPYLENE
  - R = POLYESTER

**FILTER SEAL (EPDM)**

226 = O-RING
# 940 PLATINUM SERIES CARTRIDGE FILTER

**12.75 INCH OD, 38 INCH LONG, 235 O-RING STYLE**

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<th>Part No.</th>
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<th>Media</th>
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<th>Wt. (lbs)</th>
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## 2040 PLATINUM SERIES CARTRIDGE FILTER

### 20 INCH OD, 38 INCH LONG, 235 O-RING STYLE

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<th>Model</th>
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<th>Micron</th>
<th>Media</th>
<th>Area (Sq. Ft.)</th>
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### TFS Typhoon Filtration System – Non-ASME

#### 304 Stainless Steel Housing with Filter – 150 PSI

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Carbon and 316L Stainless Available; Includes 38” long 10μ Polypro filter(s); Filter Types:
- **Standard Pleated**: \( S₁ = 2 1/2" \) Dia; \( S₂ = 6 1/4" \) Dia;
- **Platinum**: \( P₁ = 6 1/4" \) Dia; \( P₂ = 12 3/4" \) Dia;
- \( P₃ = 20" \) Dia; Specify if other material or micron size is required (see pages 2.1-2.8);
- Maximum Temperature = Filter Dependent; Maximum Pressure = 150 PSIG

### TFA Typhoon Filtration System – ASME

#### 304 Stainless Steel Housing with Filter – 125 PSI

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Carbon and 316L Stainless Available; Includes 38” long 10μ Polypro filter(s); Filter Types:
- **Standard Pleated**: \( S₁ = 2 1/2" \) Dia; \( S₂ = 6 1/4" \) Dia;
- **Platinum**: \( P₁ = 6 1/4" \) Dia; \( P₂ = 12 3/4" \) Dia;
- \( P₃ = 20" \) Dia; Specify if other material or micron size is required (see pages 2.1-2.8);
- Maximum Temperature = Filter Dependent; Maximum Pressure = 125 PSIG
**CARBON STEEL HOUSING – 150 PSI**

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<th>Width</th>
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Materials = Carbon Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 500° F; Finish = Primer Painted Exterior; Elements NOT included; Lift arm provided on CF12 and larger.
### 304 STAINLESS STEEL HOUSING – 150 PSI

#### 4NCF CARTRIDGE FILTER VESSELS – Non-ASME

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Materials = 304 Stainless Steel; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Elements NOT included

#### 4CF CARTRIDGE FILTER VESSELS – ASME

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<th>Height</th>
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Materials = 304 Stainless Steel; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Elements NOT included

### 304 STAINLESS STEEL HOUSING – 150 PSI

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<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
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<th>Width</th>
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Materials = 304 Stainless Steel; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Lift arm provided on CF12 and larger

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FILTRATION

4NCF CARTRIDGE FILTER VESSELS – Non-ASME

NON-ASME

ASME

4CF CARTRIDGE FILTER VESSELS – ASME

ASME

SINCE 1908

2016 PAGE 3.12
### 316L Stainless Steel Housing – 150 PSI

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<th>Width</th>
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<td>20 1/2</td>
<td>180</td>
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<td>20 1/2</td>
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Materials = 316L Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 400° F; Finish = Bead Blast Exterior; Elements NOT included; Lift arm provided on CF12 and larger.
### CARBON STEEL HOUSING – 150 PSI

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<th>Width</th>
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<td>740</td>
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<td>BF52-6</td>
<td>6-FLG</td>
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Materials = Carbon Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 500°F; Finish = Primer Exterior; Bag Filters NOT included; Lift arm provided on BF31 and larger.

### 4NBF BAG FILTER VESSELS – Non-ASME

#### 304 STAINLESS STEEL HOUSING – 150 PSI

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Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300°F; Finish = Bead Blast Exterior; Bag Filters NOT included; Lift arm provided on 4BF31 and larger.
### 4BF Bag Filter Vessels – ASME

**304 Stainless Steel Housing – 150 PSI**

<table>
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<th>Part No.</th>
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Materials = 304 Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Bag Filters NOT included.

### 6BF Bag Filter Vessels – ASME

**316L Stainless Steel Housing – 150 PSI**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Bags</th>
<th>Height</th>
<th>Width</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6BF11-2</td>
<td>6BF11-2</td>
<td>2-FLG</td>
<td>(1) #1</td>
<td>34 7/8</td>
<td>14 7/8</td>
<td>80</td>
<td>180</td>
</tr>
<tr>
<td>6BF12-3</td>
<td>6BF12-3</td>
<td>3-FLG</td>
<td>(1) #2</td>
<td>48 3/4</td>
<td>16</td>
<td>160</td>
<td>200</td>
</tr>
<tr>
<td>6BF31-3</td>
<td>6BF31-3</td>
<td>3-FLG</td>
<td>(3) #1</td>
<td>54</td>
<td>26</td>
<td>240</td>
<td>600</td>
</tr>
<tr>
<td>6BF32-4</td>
<td>6BF32-4</td>
<td>4-FLG</td>
<td>(3) #2</td>
<td>67</td>
<td>26</td>
<td>480</td>
<td>650</td>
</tr>
<tr>
<td>6BF41-4</td>
<td>6BF41-4</td>
<td>4-FLG</td>
<td>(4) #1</td>
<td>54 1/2</td>
<td>28</td>
<td>320</td>
<td>670</td>
</tr>
<tr>
<td>6BF42-6</td>
<td>6BF42-6</td>
<td>6-FLG</td>
<td>(4) #2</td>
<td>71 1/4</td>
<td>30</td>
<td>640</td>
<td>740</td>
</tr>
<tr>
<td>6BF52-6</td>
<td>6BF52-6</td>
<td>6-FLG</td>
<td>(5) #2</td>
<td>71 1/2</td>
<td>30</td>
<td>800</td>
<td>700</td>
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<tr>
<td>6BF62-8</td>
<td>6BF62-8</td>
<td>8-FLG</td>
<td>(6) #2</td>
<td>75</td>
<td>36</td>
<td>960</td>
<td>1105</td>
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<tr>
<td>6BF72-8</td>
<td>6BF72-8</td>
<td>8-FLG</td>
<td>(7) #2</td>
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<td>36</td>
<td>1120</td>
<td>1105</td>
</tr>
<tr>
<td>6BF82-8</td>
<td>6BF82-8</td>
<td>8-FLG</td>
<td>(8) #2</td>
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<td>38</td>
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<td>1180</td>
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<td>6BF92-8</td>
<td>6BF92-8</td>
<td>8-FLG</td>
<td>(9) #2</td>
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<td>40</td>
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<td>1290</td>
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</table>

Materials = 316L Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 400° F; Finish = Bead Blast Exterior; Bag Filters NOT included; Lift arm provided on 6BF31 and larger.
CARBON STEEL HOUSING

<table>
<thead>
<tr>
<th>Model/Part#</th>
<th>Pressure Rating (psi)</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Width</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP-11-1N</td>
<td>1610</td>
<td>1-NPT</td>
<td>(1)-10&quot;</td>
<td>14 1/2</td>
<td>4 5/8</td>
<td>6</td>
<td>37</td>
</tr>
<tr>
<td>HP-11-1-150</td>
<td>245</td>
<td>1-FLG-150#</td>
<td>(1)-10&quot;</td>
<td>14 1/2</td>
<td>12 5/8</td>
<td>6</td>
<td>45</td>
</tr>
<tr>
<td>HP-11-1-300</td>
<td>665</td>
<td>1-FLG-300#</td>
<td>(1)-10&quot;</td>
<td>14 1/2</td>
<td>12 5/8</td>
<td>6</td>
<td>47</td>
</tr>
<tr>
<td>HP-11-1-600</td>
<td>1332</td>
<td>1-FLG-600#</td>
<td>(1)-10&quot;</td>
<td>14 1/2</td>
<td>12 5/8</td>
<td>6</td>
<td>47</td>
</tr>
<tr>
<td>HP-12-1N</td>
<td>1610</td>
<td>1-NPT</td>
<td>(1)-20&quot;</td>
<td>24 1/2</td>
<td>4 5/8</td>
<td>12</td>
<td>46</td>
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<tr>
<td>HP-12-1-150</td>
<td>245</td>
<td>1-FLG-150#</td>
<td>(1)-20&quot;</td>
<td>24 1/2</td>
<td>12 5/8</td>
<td>12</td>
<td>54</td>
</tr>
<tr>
<td>HP-12-1-300</td>
<td>665</td>
<td>1-FLG-300#</td>
<td>(1)-20&quot;</td>
<td>24 1/2</td>
<td>12 5/8</td>
<td>12</td>
<td>56</td>
</tr>
<tr>
<td>HP-12-1-600</td>
<td>1332</td>
<td>1-FLG-600#</td>
<td>(1)-20&quot;</td>
<td>24 1/2</td>
<td>12 5/8</td>
<td>12</td>
<td>56</td>
</tr>
<tr>
<td>HP-13-1N</td>
<td>1610</td>
<td>1-NPT</td>
<td>(1)-30&quot;</td>
<td>34 1/2</td>
<td>4 5/8</td>
<td>18</td>
<td>55</td>
</tr>
<tr>
<td>HP-13-1-150</td>
<td>245</td>
<td>1-FLG-150#</td>
<td>(1)-30&quot;</td>
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<td>12 5/8</td>
<td>18</td>
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<tr>
<td>HP-13-1-300</td>
<td>665</td>
<td>1-FLG-300#</td>
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<td>34 1/2</td>
<td>12 5/8</td>
<td>18</td>
<td>65</td>
</tr>
<tr>
<td>HP-13-1-600</td>
<td>1332</td>
<td>1-FLG-600#</td>
<td>(1)-30&quot;</td>
<td>34 1/2</td>
<td>12 5/8</td>
<td>18</td>
<td>65</td>
</tr>
</tbody>
</table>

Materials = Carbon Steel; Maximum Pressure based on rating of flanges; Maximum Temperature = 300° F; Finish = Primer Exterior; Filters NOT included

6HP HIGH PRESSURE CARTRIDGE FILTER VESSELS – ASME

316L STAINLESS STEEL HOUSING

<table>
<thead>
<tr>
<th>Model/Part#</th>
<th>Pressure Rating (psi)</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Width</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6HP-11-1N</td>
<td>1610</td>
<td>1-NPT</td>
<td>(1)-10&quot;</td>
<td>14 1/2</td>
<td>4 5/8</td>
<td>6</td>
<td>37</td>
</tr>
<tr>
<td>6HP-11-1-150</td>
<td>225</td>
<td>1-FLG-150#</td>
<td>(1)-10&quot;</td>
<td>14 1/2</td>
<td>12 5/8</td>
<td>6</td>
<td>45</td>
</tr>
<tr>
<td>6HP-11-1-300</td>
<td>590</td>
<td>1-FLG-300#</td>
<td>(1)-10&quot;</td>
<td>14 1/2</td>
<td>12 5/8</td>
<td>6</td>
<td>47</td>
</tr>
<tr>
<td>6HP-11-1-600</td>
<td>1180</td>
<td>1-FLG-600#</td>
<td>(1)-10&quot;</td>
<td>14 1/2</td>
<td>12 5/8</td>
<td>6</td>
<td>47</td>
</tr>
<tr>
<td>6HP-12-1N</td>
<td>1610</td>
<td>1-NPT</td>
<td>(1)-20&quot;</td>
<td>24 1/2</td>
<td>4 5/8</td>
<td>12</td>
<td>46</td>
</tr>
<tr>
<td>6HP-12-1-150</td>
<td>225</td>
<td>1-FLG-150#</td>
<td>(1)-20&quot;</td>
<td>24 1/2</td>
<td>12 5/8</td>
<td>12</td>
<td>54</td>
</tr>
<tr>
<td>6HP-12-1-300</td>
<td>590</td>
<td>1-FLG-300#</td>
<td>(1)-20&quot;</td>
<td>24 1/2</td>
<td>12 5/8</td>
<td>12</td>
<td>56</td>
</tr>
<tr>
<td>6HP-12-1-600</td>
<td>1180</td>
<td>1-FLG-600#</td>
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<td>24 1/2</td>
<td>12 5/8</td>
<td>12</td>
<td>56</td>
</tr>
<tr>
<td>6HP-13-1N</td>
<td>1610</td>
<td>1-NPT</td>
<td>(1)-30&quot;</td>
<td>34 1/2</td>
<td>4 5/8</td>
<td>18</td>
<td>55</td>
</tr>
<tr>
<td>6HP-13-1-150</td>
<td>225</td>
<td>1-FLG-150#</td>
<td>(1)-30&quot;</td>
<td>34 1/2</td>
<td>12 5/8</td>
<td>18</td>
<td>63</td>
</tr>
<tr>
<td>6HP-13-1-300</td>
<td>590</td>
<td>1-FLG-300#</td>
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<td>34 1/2</td>
<td>12 5/8</td>
<td>18</td>
<td>65</td>
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<td>6HP-13-1-600</td>
<td>1180</td>
<td>1-FLG-600#</td>
<td>(1)-30&quot;</td>
<td>34 1/2</td>
<td>12 5/8</td>
<td>18</td>
<td>65</td>
</tr>
</tbody>
</table>

Materials = 316L Stainless Steel; Maximum based on rating of flanges; Maximum Temperature = 300° F; Finish = Bead Blast Exterior; Filters NOT included
### HFH High Flow Cartridge Filter Vessels – ASME

#### 40” CARTRIDGE FILTER – CARBON HOUSING – 150 PSI

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Length</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFH14-3</td>
<td>HFH14-3</td>
<td>3-FLG</td>
<td>(1)-40”</td>
<td>43</td>
<td>60 1/4</td>
<td>350</td>
<td>250</td>
</tr>
<tr>
<td>HFH34-6</td>
<td>HFH34-6</td>
<td>6-FLG</td>
<td>(3)-40”</td>
<td>58 3/8</td>
<td>69 3/4</td>
<td>1050</td>
<td>694</td>
</tr>
<tr>
<td>HFH54-8</td>
<td>HFH54-8</td>
<td>8-FLG</td>
<td>(5)-40”</td>
<td>59</td>
<td>77</td>
<td>1750</td>
<td>935</td>
</tr>
<tr>
<td>HFH74-10</td>
<td>HFH74-10</td>
<td>10-FLG</td>
<td>(7)-40”</td>
<td>60</td>
<td>79 3/4</td>
<td>2450</td>
<td>1106</td>
</tr>
<tr>
<td>HFH84-10</td>
<td>HFH84-10</td>
<td>10-FLG</td>
<td>(8)-40”</td>
<td>61</td>
<td>79 7/8</td>
<td>2800</td>
<td>1248</td>
</tr>
<tr>
<td>HFH124-12</td>
<td>HFH124-12</td>
<td>12-FLG</td>
<td>(12)-40”</td>
<td>64</td>
<td>88 3/8</td>
<td>4200</td>
<td>1672</td>
</tr>
<tr>
<td>HFH154-14</td>
<td>HFH154-14</td>
<td>14-FLG</td>
<td>(15)-40”</td>
<td>65</td>
<td>90 3/4</td>
<td>5250</td>
<td>1938</td>
</tr>
<tr>
<td>HFH194-16</td>
<td>HFH194-16</td>
<td>16-FLG</td>
<td>(19)-40”</td>
<td>67 1/2</td>
<td>94 1/2</td>
<td>6650</td>
<td>2593</td>
</tr>
</tbody>
</table>

#### 60” CARTRIDGE FILTER – CARBON HOUSING – 150 PSI

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Length</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFH16-4</td>
<td>HFH16-4</td>
<td>4-FLG</td>
<td>(1)-60”</td>
<td>43</td>
<td>81 1/4</td>
<td>500</td>
<td>325</td>
</tr>
<tr>
<td>HFH36-8</td>
<td>HFH36-8</td>
<td>8-FLG</td>
<td>(3)-60”</td>
<td>58 3/8</td>
<td>91 3/4</td>
<td>1500</td>
<td>756</td>
</tr>
<tr>
<td>HFH56-10</td>
<td>HFH56-10</td>
<td>10-FLG</td>
<td>(5)-60”</td>
<td>59</td>
<td>99</td>
<td>2500</td>
<td>1070</td>
</tr>
<tr>
<td>HFH76-10</td>
<td>HFH76-10</td>
<td>10-FLG</td>
<td>(7)-60”</td>
<td>60</td>
<td>99 3/4</td>
<td>3500</td>
<td>1181</td>
</tr>
<tr>
<td>HFH86-12</td>
<td>HFH86-12</td>
<td>12-FLG</td>
<td>(8)-60”</td>
<td>61</td>
<td>101 7/8</td>
<td>4000</td>
<td>1389</td>
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<tr>
<td>HFH126-14</td>
<td>HFH126-14</td>
<td>14-FLG</td>
<td>(12)-60”</td>
<td>64</td>
<td>109 3/4</td>
<td>6000</td>
<td>1834</td>
</tr>
<tr>
<td>HFH156-16</td>
<td>HFH156-16</td>
<td>16-FLG</td>
<td>(15)-60”</td>
<td>65</td>
<td>112 7/8</td>
<td>7500</td>
<td>2113</td>
</tr>
<tr>
<td>HFH196-18</td>
<td>HFH196-18</td>
<td>18-FLG</td>
<td>(19)-60”</td>
<td>67 1/2</td>
<td>116 1/2</td>
<td>9500</td>
<td>2828</td>
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</tbody>
</table>

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

### HFV High Flow Cartridge Filter Vessels – ASME

#### 40” CARTRIDGE FILTER – CARBON HOUSING – 150 PSI

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Vessel Diameter</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFV14-3</td>
<td>HFV14-3</td>
<td>3-FLG</td>
<td>(1)-40”</td>
<td>69 3/8</td>
<td>8</td>
<td>350</td>
<td>250</td>
</tr>
<tr>
<td>HFV34-6</td>
<td>HFV34-6</td>
<td>6-FLG</td>
<td>(3)-40”</td>
<td>94 1/4</td>
<td>16</td>
<td>1050</td>
<td>694</td>
</tr>
<tr>
<td>HFV54-8</td>
<td>HFV54-8</td>
<td>8-FLG</td>
<td>(5)-40”</td>
<td>106 1/4</td>
<td>20</td>
<td>1750</td>
<td>935</td>
</tr>
<tr>
<td>HFV74-10</td>
<td>HFV74-10</td>
<td>10-FLG</td>
<td>(7)-40”</td>
<td>115 1/4</td>
<td>22</td>
<td>2450</td>
<td>1106</td>
</tr>
<tr>
<td>HFV84-10</td>
<td>HFV84-10</td>
<td>10-FLG</td>
<td>(8)-40”</td>
<td>115 1/2</td>
<td>24</td>
<td>2800</td>
<td>1248</td>
</tr>
<tr>
<td>HFV124-12</td>
<td>HFV124-12</td>
<td>12-FLG</td>
<td>(12)-40”</td>
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<tr>
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<td>HFV154-14</td>
<td>14-FLG</td>
<td>(15)-40”</td>
<td>135</td>
<td>32</td>
<td>5250</td>
<td>1938</td>
</tr>
<tr>
<td>HFV194-16</td>
<td>HFV194-16</td>
<td>16-FLG</td>
<td>(19)-40”</td>
<td>143 5/8</td>
<td>36</td>
<td>6650</td>
<td>2593</td>
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</table>

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included
### 4HFH HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

#### 40” CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Length</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4HFH14-3</td>
<td>4HFH14-3</td>
<td>3-FLG</td>
<td>(1)-40”</td>
<td>43</td>
<td>60 1/4</td>
<td>350</td>
<td>250</td>
</tr>
<tr>
<td>4HFH34-6</td>
<td>4HFH34-6</td>
<td>6-FLG</td>
<td>(3)-40”</td>
<td>58 3/8</td>
<td>69 3/4</td>
<td>1050</td>
<td>694</td>
</tr>
<tr>
<td>4HFH54-8</td>
<td>4HFH54-8</td>
<td>8-FLG</td>
<td>(5)-40”</td>
<td>59</td>
<td>77</td>
<td>1750</td>
<td>935</td>
</tr>
</tbody>
</table>

#### 60” CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Length</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4HFH16-4</td>
<td>4HFH16-4</td>
<td>4-FLG</td>
<td>(1)-60”</td>
<td>43</td>
<td>81 1/4</td>
<td>500</td>
<td>325</td>
</tr>
<tr>
<td>4HFH36-8</td>
<td>4HFH36-8</td>
<td>8-FLG</td>
<td>(3)-60”</td>
<td>58 3/8</td>
<td>91 3/4</td>
<td>1500</td>
<td>756</td>
</tr>
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<td>4HFH56-10</td>
<td>10-FLG</td>
<td>(5)-60”</td>
<td>59</td>
<td>99</td>
<td>2500</td>
<td>1070</td>
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### 4HFV HIGH FLOW CARTRIDGE FILTER VESSELS – ASME

#### 40” CARTRIDGE FILTER – 304 STAINLESS HOUSING – 150 PSI

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Vessel Diameter</th>
<th>Max GPM</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4HFV14-3</td>
<td>4HFV14-3</td>
<td>3-FLG</td>
<td>(1)-40”</td>
<td>69 3/8</td>
<td>8</td>
<td>350</td>
<td>250</td>
</tr>
<tr>
<td>4HFV34-6</td>
<td>4HFV34-6</td>
<td>6-FLG</td>
<td>(3)-40”</td>
<td>94 1/4</td>
<td>16</td>
<td>1050</td>
<td>694</td>
</tr>
<tr>
<td>4HFV54-8</td>
<td>4HFV54-8</td>
<td>8-FLG</td>
<td>(5)-40”</td>
<td>106 1/4</td>
<td>20</td>
<td>1750</td>
<td>935</td>
</tr>
</tbody>
</table>

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included
### 6HFH High Flow Cartridge Filter Vessels – ASME

#### 40” Cartridge Filter – 316 Stainless Housing – 150 PSI

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Length</th>
<th>GPM</th>
<th>Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6HFH14-3</td>
<td>6HFH14-3</td>
<td>3-FLG</td>
<td>(1)-40”</td>
<td>43</td>
<td>60 1/4</td>
<td>350</td>
<td>250</td>
</tr>
<tr>
<td>6HFH34-6</td>
<td>6HFH34-6</td>
<td>6-FLG</td>
<td>(3)-40”</td>
<td>58 3/8</td>
<td>69 3/4</td>
<td>1050</td>
<td>694</td>
</tr>
<tr>
<td>6HFH54-8</td>
<td>6HFH54-8</td>
<td>8-FLG</td>
<td>(5)-40”</td>
<td>59</td>
<td>77</td>
<td>1750</td>
<td>935</td>
</tr>
<tr>
<td>6HFH74-10</td>
<td>6HFH74-10</td>
<td>10-FLG</td>
<td>(7)-40”</td>
<td>60</td>
<td>79 3/4</td>
<td>2450</td>
<td>1106</td>
</tr>
<tr>
<td>6HFH84-10</td>
<td>6HFH84-10</td>
<td>10-FLG</td>
<td>(8)-40”</td>
<td>61</td>
<td>79 7/8</td>
<td>2800</td>
<td>1248</td>
</tr>
<tr>
<td>6HFH124-12</td>
<td>6HFH124-12</td>
<td>12-FLG</td>
<td>(12)-40”</td>
<td>64</td>
<td>88 3/8</td>
<td>4200</td>
<td>1672</td>
</tr>
<tr>
<td>6HFH154-14</td>
<td>6HFH154-14</td>
<td>14-FLG</td>
<td>(15)-40”</td>
<td>65</td>
<td>90 3/4</td>
<td>5250</td>
<td>1938</td>
</tr>
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<td>6HFH194-16</td>
<td>6HFH194-16</td>
<td>16-FLG</td>
<td>(19)-40”</td>
<td>67 1/2</td>
<td>94 1/2</td>
<td>6650</td>
<td>2593</td>
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#### 60” Cartridge Filter – 316 Stainless Housing – 150 PSI

<table>
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<th>Part No.</th>
<th>Conn. Size</th>
<th># Elm.</th>
<th>Height</th>
<th>Length</th>
<th>GPM</th>
<th>Wt. (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>6HFH16-4</td>
<td>6HFH16-4</td>
<td>4-FLG</td>
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<tr>
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<td>8-FLG</td>
<td>(3)-60”</td>
<td>58 3/8</td>
<td>91 3/4</td>
<td>1500</td>
<td>756</td>
</tr>
<tr>
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<td>10-FLG</td>
<td>(5)-60”</td>
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<td>99</td>
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<td>10-FLG</td>
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<td>99 3/4</td>
<td>3500</td>
<td>1181</td>
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<tr>
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<td>6HFH86-12</td>
<td>12-FLG</td>
<td>(8)-60”</td>
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<td>101 7/8</td>
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<td>1389</td>
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<td>6HFH126-14</td>
<td>14-FLG</td>
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<td>16-FLG</td>
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Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included

### 6HFV High Flow Cartridge Filter Vessels – ASME

#### 40” Cartridge Filter – 316 Stainless Housing – 150 PSI

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<th>Part No.</th>
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<th># Elm.</th>
<th>Height</th>
<th>Diameter</th>
<th>GPM</th>
<th>Wt. (lbs.)</th>
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<td>6HFV14-3</td>
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<td>(1)-40”</td>
<td>69 3/8</td>
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<td>6-FLG</td>
<td>(3)-40”</td>
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<tr>
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<td>6HFV54-8</td>
<td>8-FLG</td>
<td>(5)-40”</td>
<td>106 1/4</td>
<td>20</td>
<td>1750</td>
<td>935</td>
</tr>
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<td>6HFV74-10</td>
<td>6HFV74-10</td>
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<td>(7)-40”</td>
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<td>2450</td>
<td>1106</td>
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<td>6HFV84-10</td>
<td>10-FLG</td>
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<td>115 1/2</td>
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<td>2800</td>
<td>1248</td>
</tr>
<tr>
<td>6HFV124-12</td>
<td>6HFV124-12</td>
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<td>(12)-40”</td>
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<td>6HFV154-14</td>
<td>14-FLG</td>
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<td>6HFV194-16</td>
<td>6HFV194-16</td>
<td>16-FLG</td>
<td>(19)-40”</td>
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<td>36</td>
<td>6650</td>
<td>2593</td>
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</table>

Materials = Carbon Steel; Maximum Pressure 150 psi; Maximum Temperature = 250° F; Finish = Primer Exterior; Filters NOT included
Hydro-pneumatic tanks are used to store potable water. When properly sized, these tanks are designed to maintain a potable water system within a specified pressure range. Typically used in water well systems, pressure booster packages, and industrial water accumulation applications.

**SIZING HYDRO-PNEUMATIC TANKS**

To properly size a hydro-pneumatic tank, four critical pieces of information are required:

- Pump Capacity (in gallons per minute)
- Minimum Required Pump Run-time (in minutes)
- Pump Cut-in Pressure (in psig)
- Pump Cut-out Pressure (in psig)

Use the following form and acceptance factor table to calculate tank sizing by hand or visit www.westank.com/calculator to automatically calculate the size and model. Download our Wessels Company App to your iOS or Android device for mobile sizing on the go.

<table>
<thead>
<tr>
<th>PUMP CAPACITY (GPM)</th>
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<tr>
<td>MINIMUM RUN TIME (MIN.)</td>
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<tr>
<td>CALCULATE REQUIRED STORAGE (ACCEPTANCE VOLUME) (PUMP CAP. X RUN TIME) (GAL.)</td>
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<tr>
<td>ACCEPTANCE FACTOR (AF)</td>
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<tr>
<td>CALCULATE TANK VOLUME (ACCEPTANCE VOLUME/AF) (GAL)</td>
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<tr>
<td>SELECT MODEL</td>
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</table>

**ACCEPTANCE FACTOR FOR PRE-CHARGED TANKS**

(FX, FXT, & FXA MODELS – ONLY)

<table>
<thead>
<tr>
<th>PUMP CUT-OUT PRESSURE (PSIG)</th>
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<tr>
<td>20</td>
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<tr>
<td>90</td>
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<tr>
<td>100</td>
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<tr>
<td>110</td>
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## FX Hydro-Pneumatic Tanks — Non-ASME

### Removable Bladder Tank

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<td>3/4</td>
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<td>61</td>
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Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 200°F; Finish = Blue Powder Coat Exterior; Factory Pre-charge = 30 PSIG

## FX Hydro-Pneumatic Tanks — ASME

### Fixed Diaphragm Tank

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<tr>
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<td>66</td>
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</table>

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 200 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG
Smart Tank Series FXA with WessGuard®

Smart Tank Series FXA-WG are ASME removable bladder type pre-charged hydro-pneumatic tanks with WessGuard® bladder monitor. They are designed to accept water between two set pressures, typically controlled by a pump switch, in pressure booster, water well, shock & surge, or other commercial & industrial systems where water must be stored in a corrosion protected reservoir. If the system creates a condition to extend the bladder beyond the normal movement, WessGuard® monitor will activate an audible and LED alarm to notify maintenance staff of a potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.

### REMOVABLE BLADDER TANK – 125 PSI

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Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts
REMovable BL adder – 125 PSI

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FXA 1000    | 21011000  | 264  | 264     | 36    | 87  | 3           | 735        |
| FXA 1200   | 21011200  | 317  | 317     | 36    | 98  | 3 1/2       | 745        |
| FXA 1400   | 21011400  | 370  | 370     | 36    | 110 | 3           | 900        |
| FXA 1600   | 21011600  | 422  | 422     | 48    | 84  | 3           | 1210       |
| FXA 2000   | 21012000  | 528  | 528     | 48    | 96  | 3           | 1305       |
| FXA 2500   | 21012500  | 660  | 660     | 48    | 110 | 4           | 1430       |
| FXA 3000L  | 21013000  | 792  | 792     | 48    | 133 | 4           | 1575       |
| FXA 3000S  | 21013001  | 792  | 792     | 60    | 93  | 4           | 2169       |
| FXA 4000   | 21014000  | 1056 | 1056    | 60    | 115 | 4           | 2638       |
| FXA 5000   | 21015000  | 1320 | 1320    | 60    | 138 | 4           | 3246       |
| FXA 7500   | 21017500  | 1980 | 1980    | 72    | 140 | 4           | 4080       |
| FXA 10000  | 21019999  | 2640 | 2640    | 72    | 172 | 4           | 4920       |
| FXA 15000  | 21500000  | 3963 | 3963    | 72    | 243 | 4           | 6000       |

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

1 – In stock at 200 psi rating
REMovable Bladder – 200 psi & 250 PSI

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<th>Wt.(#)</th>
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Materials = Steel shell, Heavy Duty Butyl Bladder; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG; For vessel dimensions (diameter, height and system connection) refer to FXA price sheet or Submittal Data.

1 – In stock at 200 psi rating
FX HYDRO-PNEUMATIC TANKS

WEISSGUARD® RETROFIT FOR FXA

The bladder-style hydro-pneumatic tank function is to store fluid, typically water in a water-well, shock/surge or pressure booster system. The properly sized hydro-pneumatic tank will store this water while limiting pressures based on the captured compressible air chamber size within the tank to the designer’s acceptable limits.

The tank critical size is engineered to store the proper volume of water to minimize the daily pump starts/stops, lengthening the life expectancy of the system pumps and pump motors.

Factors that can affect the pump cycling in the system:
Properly sized hydro-pneumatic tank
Properly installed and pre-charge adjusted hydro-pneumatic tank
Pump switch pressure range (in conjunction to the pre-charge pressure)
Pump switch pressure range drift (over time)

Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure cycling. WeissGuard® was developed to monitor the fluid within the hydro-pneumatic tank by determining excessive movement of the vessel bladder. WeissGuard® incorporates a capacitive proximity sensor that determines if fluid levels in the hydro-pneumatic tank exceed “normal” operating conditions. Furthermore, if an expansion tank bladder is compromised, WeissGuard® monitors the rising fluid level in the tank.

WeissGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual and audible alarm. The WeissGuard® monitor also has normally open contact to tie directly to an energy management system.

WEISSGUARD® RETROFIT - FXA

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Sensor Lead</th>
<th>Monitor Lead</th>
<th>Sensor Diameter</th>
<th>Monitor Dimensions</th>
<th>Connection To Tank</th>
<th>Wt. (Lbs.)</th>
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<td>38”</td>
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<td>3/4”</td>
<td>5 1/4&quot; X 5 1/4&quot;</td>
<td>1” NPT</td>
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</table>

FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1” TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER

Specify Standard or WeissGuard-2® with Phone Texting Alerts
** FX-750V Replaces Model FX-700V Effective 5/98

---

### FX REPLACEMENT BLADDERS & COVERS

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<thead>
<tr>
<th>Model</th>
<th>Bladder Bottom Assembly</th>
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<td>FX 750V**</td>
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### FXA REPLACEMENT BLADDERS & COVERS

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<th>Bladder Bottom Assembly</th>
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* FXA-700T Bladder is made of Heavy Duty Urethane
# GLYCOL MAKE-UP PACKAGES

## GLYMAT\(^{IC}\) & GMP\(^{IC}\) GLYCOL MAKE-UP PACKAGES

### GLYMATIC – SINGLE SYSTEM PACKAGE

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Solution Volume (gal)</th>
<th>Dimensions</th>
<th>Approx. Weight (lbs)</th>
</tr>
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Materials = Polyethylene solution tank, 110V, 60HZ Motor; Maximum Pressure = 60 PSIG discharge pressure; Maximum Temperature = 160°F; Factory Discharge Pressure Setting = 12 PSIG; Low level alarm available – Consult Factory

### GMP – SINGLE SYSTEM PACKAGE

<table>
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<th>Model</th>
<th>Part No.</th>
<th>Pump hp</th>
<th>Solution Volume (gal)</th>
<th>Dimensions</th>
<th>Approx. Weight (lbs)</th>
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Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160°F; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG

### GMPD – TWO SEPARATE SYSTEMS/ ONE PACKAGE

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<th>Model</th>
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<th>Approx. Weight (lbs)</th>
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Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160°F; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG

### GMPT – SINGLE SYSTEM/ TWIN PUMPS W/ALTERNATOR

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Pump hp</th>
<th>Solution Volume (gal)</th>
<th>Dimensions</th>
<th>Approx. Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMPT-33050</td>
<td>07103170</td>
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Materials = Polyethylene solution tank, bronze pump, 110V, 60HZ Motor, steel base; Maximum Pressure = 70 PSIG discharge pressure; Maximum Temperature = 160°F; Finish = Gray Steel Base Exterior; Factory Discharge Pressure Setting = 12 PSIG
PLATE AND FRAME HEAT EXCHANGER – WITH GASKETS

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>Base Frame: 150 psi design / Single Pass / Steel connections</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>WP11  WP12  WP22  WP23  WP24  WP30  WP42  WP43</td>
</tr>
<tr>
<td>Length</td>
<td></td>
<td>6      12      18       24      36       48       60      72       84       96       108      120      144      168      192      216      240</td>
</tr>
<tr>
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<td></td>
<td>SS Conn Add / ea  Ti Conn Add / ea  300 psi Add</td>
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<td></td>
<td>Plate / Thk / Gask</td>
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<td>304.4.Epdm  304.5.Epdm  304.6.Epdm</td>
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<tr>
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<td>316.4.Epdm  316.5.Epdm  316.6.Epdm</td>
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</table>

Pricing is for Base Unit with Standard Construction. For other options consult factory. Prices are FOB Tiffin, Ohio and subject to change. Shaded areas indicate stock components.

Net Price = ((Base Frame Price + Connection or 300 psi Adder) + (#plates X Plates w/ gasket Price)) X Multiplier

Request access to WesPlate Sizing at wesplatesizing.westank.com for more precise quotation.
### PLATE AND FRAME HEAT EXCHANGER – WITH GASKETS

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
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<tbody>
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Pricing is for Base Unit with Standard Construction. For other options consult factory. Prices are FOB Tiffin, Ohio and subject to change. Shaded areas indicate stock components.

Net Price = ((Base Frame Price + Connection or 300 psi Adder) + (#plates X Plates w/ gasket Price)) X Multiplier

Request access to WesPlate Sizing at wesplatesizing.westank.com for more precise quotation.
### BRAZED PLATE HEAT EXCHANGER

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<td>Design Temp:</td>
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<td>385°F</td>
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Consult factory for more options.
## U-TUBE HEAT EXCHANGER – STEAM IN SHELL

<table>
<thead>
<tr>
<th>Base Price Description</th>
<th>Tube Length</th>
<th>Unit Diameter</th>
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<tbody>
<tr>
<td>Standard Construction;</td>
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<tr>
<td>Tubes 3/4&quot; OD</td>
<td>3</td>
<td>6</td>
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<tr>
<td>Copper 20 BWG</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Cast iron heads</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Steel tubesheets</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Steel shell</td>
<td>7</td>
<td>14</td>
</tr>
<tr>
<td>Steel baffles</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>Two(2) gaskets</td>
<td>9</td>
<td></td>
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<tr>
<td>2 or 4 pass only</td>
<td>10</td>
<td></td>
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<tr>
<td>ASME stamped</td>
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<tr>
<td>150 psi design</td>
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<tr>
<td>Support Feet</td>
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</table>

<table>
<thead>
<tr>
<th>Support Feet Description</th>
<th>Weight Base (Lbs)</th>
<th>Add Weight / FT (Lbs/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>30</td>
<td>15</td>
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<td>105</td>
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<tr>
<td></td>
<td>335</td>
<td>120</td>
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<tr>
<td></td>
<td>450</td>
<td>150</td>
</tr>
</tbody>
</table>

## U-TUBE HEAT EXCHANGER – WATER TO WATER

| Standard Construction; | 2           | 4 |
| Tubes 3/4" OD         | 3           | 6 |
| Copper 20 BWG         | 4           | 8 |
| Cast iron heads       | 5           | 10|
| Steel tubesheets      | 6           | 14|
| Steel shell           | 7           | 16|
| Steel baffles         | 8           | 18|
| Two(2) gaskets        | 9           | 20|
| 2 or 4 pass only      | 10          | 22|
| ASME stamped          | 11          | 24|
| 150 psi design        | 12          | 26|
| Support Feet          | 13          | 28|

<table>
<thead>
<tr>
<th>Support Feet Description</th>
<th>Weight Base (Lbs)</th>
<th>Add Weight / FT (Lbs/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

| Baffle Spacing (Inches) | 4 | 3 | 4 | 5 | 6 | 7 | 8 |
**CPFT CHEMICAL POT FEEDER TANKS – Non-ASME**

**CHEMICAL FEED TANKS**

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<td>6</td>
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<td>19-3/4</td>
<td>12</td>
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Materials = Steel; Maximum Pressure = 200 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer

**CPFTA CHEMICAL POT FEEDER TANKS – ASME**

**CHEMICAL FEED TANKS - ASME**

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<td>10</td>
<td>19-3/4</td>
<td>10</td>
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</table>

Materials = Steel; Maximum Pressure = 200 PSIG; Maximum Temperature = 450°F; Finish = Red Oxide Primer
WCN CONDENSATE NEUTRALIZERS

**WCN CONDENSATE NEUTRALIZER**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Dimensions (in.)</th>
<th>Ship Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>12 4 3/4 5 1/2 4</td>
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<td>33030100</td>
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<tr>
<td>FLEX HOSE</td>
<td>33030200</td>
<td>1/2 DIA 1/2 DIA 4</td>
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<tr>
<td>WALL BRKT.</td>
<td>33030300</td>
<td>4 1/2 1 4</td>
<td>0.1</td>
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</tbody>
</table>

WCN includes MEDIA BAGS for up to 50,000 BTU/hr. Includes two compartments for two (2) additional media bags for up to 1.5 million BTU/hr. FLEXHOSE includes barb fittings. WALL BRACKETS includes two (2) for wall mounting (if required).

**WCN-2 CONDENSATE NEUTRALIZER**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Dimensions (in.)</th>
<th>Ship Wt. (lbs.)</th>
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<td>33030101</td>
<td>16.25 10 1/2 7 1/2</td>
<td>17</td>
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<tr>
<td>WCN1 MEDIA</td>
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<td>5 10 6</td>
<td>10</td>
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</table>

WCN2 includes MEDIA for up to 3,500,000 btu/hr. The WCN2 has two additional compartments for two (2) additional MEDIA bags for up to 10.5 million btu/hr.
 Expansion tanks are used to absorb the additional volume of water created during thermal expansion of system fluid, maintaining critical system pressures below safety relief valve settings. Wessels carries industry’s broadest line of ASME and non-ASME tanks. Typically used in closed-loop hydronic heating, chilled water and industrial process piping systems.

## SIZING EXPANSION TANKS

To properly size an expansion tank, five critical pieces of information are required:

- Total System Volume (in gallons)
- Minimum System Temperature (in degrees F)
- Maximum System Temperature (in degrees F)
- Minimum System Pressure (in psig)
- Maximum System Pressure (in psig)

Use the following form and acceptance factor table to calculate tank sizing by hand or visit www.westank.com/calculator to automatically calculate the size and model. Download our Wessels Company App to your iOS or Android device for mobile sizing on the go.

### EXPANSION FACTOR TABLE – WATER ONLY

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<th>50</th>
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<th>70</th>
<th>80</th>
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## N Expansion Tanks – Non-ASME

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Materials = Steel Shell, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Silver Powder Coat Exterior; Factory Pre-charge = 12 PSIG

### NL Expansion Tanks – Non-ASME

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Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Red Powder Coat Exterior; Factory Pre-charge = 12 PSIG
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Materials: Steel; Maximum Pressure = 150 PSIG for 12NA33(12NAG33) to 20NA78(16NAG72) and 125 PSIG for all other models; Maximum Temperature = 450°F; Finish = Primer for NA & Galvanized Steel Interior & Exterior for NAG; Gauge glass tappings are ½” NPT; Base stands included on all models except 36NA120 & 42NA96.
## NTA Expansion Tanks – ASME

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Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG for NTA-15 through NTA-60; All Others 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG

## NLAP Expansion Tanks: Top Connection – ASME

### Removable Bladder Tank

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Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG
Smart Tank Series NLA-WG are ASME removable bladder type precharged expansion tanks with WessGuard® bladder monitor. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems. The system’s expanded water (fully compatible with water/glycol mixtures) is contained in a heavy-duty bladder preventing tank corrosion and water logging problems. If the system creates a condition to extend the bladder beyond the normal movement, WessGuard® monitor will activate an audible and LED alarm to notify maintenance staff of this potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.

### REMOVABLE BLADDER TANK – 125 PSI

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| NLA-85-WG | 62010085  | 23   | 23      | 16   | 37   | 1     | 90          |
| NLA-130-WG | 62010130  | 35   | 35      | 20   | 37   | 1     | 125         |
| NLA-200-WG | 62010200  | 53   | 53      | 24   | 43   | 1 1/2 | 210         |
| NLA-300-WG | 62010300  | 79   | 79      | 24   | 55   | 1 1/2 | 225         |
| NLA-400-WG | 62010400  | 106  | 106     | 30   | 49   | 1 1/2 | 300         |
| NLA-500-WG | 62010500  | 132  | 132     | 30   | 57   | 1 1/2 | 335         |
| NLA-600-WG | 62010600  | 158  | 158     | 30   | 65   | 1 1/2 | 360         |
| NLA-800L-WG | 62010805  | 211  | 211     | 32   | 76   | 1 1/2 | 475         |

| NLA-1000-WG | 62011000  | 264  | 264     | 36   | 75   | 1 1/2 | 710         |
| NLA-1200-WG | 62011200  | 317  | 317     | 36   | 87   | 1 1/2 | 720         |
| NLA-1400-WG | 62011400  | 370  | 370     | 36   | 99   | 1 1/2 | 875         |
| NLA-1600-WG | 62011600  | 422  | 422     | 48   | 74   | 1 1/2 | 1100        |
| NLA-2000-WG | 62012000  | 528  | 528     | 48   | 87   | 1 1/2 | 1280        |
| NLA-2500-WG | 62012500  | 660  | 660     | 48   | 102  | 2     | 1435        |
| NLA-3000L-WG | 62013000  | 792  | 792     | 48   | 122  | 2     | 1550        |
| NLA-3000S-WG | 62013001  | 792  | 792     | 60   | 80   | 2     | 2169        |
| NLA-4000-WG | 62014000  | 1056 | 1056    | 60   | 102  | 2     | 2638        |
| NLA-5000-WG | 62015000  | 1320 | 1320    | 60   | 125  | 2     | 3246        |
| NLA-7500-WG | 62017500  | 1980 | 1980    | 72   | 127  | 3     | 4005        |
| NLA-10000-WG | 62019999  | 2640 | 2640    | 72   | 163  | 3     | 4845        |
| NLA-15000-WG | 62010000  | 3963 | 3963    | 72   | 233  | 3     | 5925        |

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts
## NLA EXPANSION TANKS – ASME

### REMOVABLE BLADDER TANK – 125 PSI

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Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG.

For Sight Glass - Add $145.00 to List ($)
### NLA-HP Expansion Tanks – ASME

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Materials = Steel shell, Heavy Duty Butyl Bladder; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG; For vessel dimensions (diameter, height and system connection) refer to NLA price sheet or Submittal data.

For Sight Glass - Add $145.00 to List ($)

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**Since 1908**

Wessels Company

2016 PAGE 8.7
# N Expansion Tanks

## NVA Expansion Tanks – ASME

### Bottom System Connection/Removable Bladder Tank

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Materials: Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 12 PSIG

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For Sight Glass - Add $145.00 to List ($)

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Since 1926

Wessels Company

2016 PAGE 8.8
The bladder-style expansion tank function is to accept expanded water created during the thermal expansion process that occurs as heat energy increases the system water volume. The properly sized expansion tank will control pressure increases in the piping system based on the captured compressible air chamber within the tank to the designer’s acceptable limits.

The system in its as-built state can differ from engineer design and functionality. Unwarranted pressure increases can severely affect the critical components of the heating or cooling system.

Factors that can affect the excessive pressure swings in the system:
- Properly sized expansion tank
- Properly installed and pre-charge adjusted expansion tank
- Automatic fill station pressure set point
- Automatic fill station pressure range drift (over time)
- Free air (pockets and entrained) in the piping system
- System pump location relative to the expansion tank
- System fluid (water, glycol/water, etc.) temperature range

Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure. WessGuard® was developed to monitor the fluid within the expansion tank by determining excessive movement of the vessel bladder. WessGuard® incorporates a capacitive proximity sensor that determines if fluid levels in the expansion tank exceed “normal” operating conditions. Furthermore, if an expansion tank bladder is compromised, WessGuard® monitors the rising fluid level in the tank.

WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual LED and audible alarm. The WessGuard® monitor also has normally open contact to tie directly to an energy management system.

**WESSGUARD® RETROFIT - NLA**

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FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1” TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER

Specify Standard or WessGuard-2® with Phone Texting Alerts
## N Expansion Tanks

### NL Replacement Bladders & Covers

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### NLA Replacement Bladders & Covers

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WITH INTERNAL BAFFLE – 150 PSI

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Materials = Steel Shell; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 psig; Maximum Temperature = 450°F; Finish = Primer Painted Exterior; Support Legs Standard on Models PSA-6 and Up.

PSAV PRIMARY/SECONDARY HEADER – ASME

WITH WESSVENT AIR/DIRT SEPARATION – 150 PSI

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<th>Width</th>
<th>Flow (GPM)</th>
<th>Wt. (Lbs.)</th>
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Materials = Steel Shell; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 psig; Maximum Temperature = 450°F; Finish = Primer Painted Exterior; Support Legs Standard on Models PSAV-6 and Up.
WITH REMOVABLE WESSVENT AIR/DIRT SEPARATOR – 150 PSI

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Materials = Steel Shell; Coalescing Medium = Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior.
Support Legs Standard on Models PSAVR-6 and Up.
Severe Service Products are designed for applications for commercial and industrial systems that require internal and external protection more robust than traditional fabricated steel designs. These products include stainless Air Purgers & ASME Separators, stainless ASME Plain Steel Tanks, and stainless & epoxy lined (interior & exterior) ASME bladder tanks.

**SS-AP INLINE AIR PURGERS – ASME**

**FABRICATED STAINLESS STEEL**

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<tr>
<th>Model</th>
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<th>Lng.</th>
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Materials = Fabricated Stainless Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior Conforms to ASME requirements.

**SS-SPA TANGENTIAL AIR SEPARATORS – ASME**

**STAINLESS STEEL SEPARATOR LESS STRAINER**

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Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior
### SSNA COMPRESSION TANKS – ASME

#### STAINLESS PLAIN STEEL

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Materials = Stainless Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Primer; Sight glass tappings are ½" NPT; Base stands included on all models
### SS-CFS Centrifugal Solids Separator – Non-ASME

**STAINLESS STEEL SEPARATOR - LOW FLOW DESIGN**

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NON-ASME Materials = Stainless Steel Shell, Stainless Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models

### SS-CFA Centrifugal Solids Separator – ASME

**STAINLESS STEEL SEPARATOR - LOW FLOW DESIGN**

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ASME Materials = Stainless Steel Shell, Stainless Steel System Connection
Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F
Also available in 200 & 250 psi rated models
## STAINLESS STEEL REMOVABLE BLADDER TANKS – ASME

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Materials = Stainless Steel Shell, Heavy Duty Butyl Bladder;
Maximum Pressure = 125 PSIG; Maximum Temperature = 240°F;
Finish = Bead blast Exterior; Factory Pre-charge = 30 PSIG
## EPFXA Epoxy-Lined Bladder Tanks – ASME

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Materials = Carbon Steel Shell, Internally NSF Epoxy Lined, Heavy Duty Butyl Bladder; Maximum Pressure = 125 PSIG; Maximum Temperature = 180°F; Finish = Epoxy Lined Exterior; Factory Pre-charge = 30 PSIG
SHOCK & SURGE TANKS

Shock & Surge Tanks are specially designed hydro-pneumatic tanks used to absorb the harmful water hammer pressure wave in a piping system. When properly sized, these tanks are designed to capture the kinetic energy wave of a quick-closing valve (or other offending fixture) and limit the pressure spike that is otherwise created. Typically used in water well systems, municipal water distribution lines, pressure booster systems, and industrial water distribution systems.

SSA SHOCK & SURGE TANKS – ASME

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Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 250 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

G = Grooved Pipe Connection
F = Flanged Connection
## SIZING fta STEAM CONDENSATE FLASH TANKS

### Flash Tank Sizing

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#### Sizing

From Chart (Below)

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| TOTAL DISENGAGING AREA | (AF X TOTAL FLOW)/1000 | SQ.FT. |

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STEAM ACCESSORIES

FTA STEAM CONDENSATE FLASH TANKS - ASME

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Materials = Steel; Maximum Pressure = 150 PSIG for FTA-13 to FTA-30 and 125 PSIG for all other models; Maximum Temperature = 450°F; Finish = Primer Painted Exterior

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For saddles welded to the tank, refer to custom tank pricing (page 10.4). Sparge for FTA-13 through FTA-48 furnished with 20 – 3/8" holes; Sparge for FTA-80 through FTA-180 furnished with 32 – 3/8" holes; Handhole limits Max. Temperature to 400°F

VERTICAL FLASH TANKS

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Materials = Steel; Maximum Pressure = 150 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior
## Steam Blowdown Tanks

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Materials = Steel; Maximum Pressure = 125 PSIG; Maximum Temperature = 450°F; Finish = Primer Painted Exterior
Glasslined storage tanks are used to store cold or hot potable water. Typically used in domestic hot water storage systems.

**JACKETED AND INSULATED TANKS – ASME & Non-ASME**

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Materials = Glass-lined steel vessel; Maximum Temperature = 180°F; Finish = Urethane Paint Exterior; Furnished with Magnesium Anode Rods. Horizontal Models available – Consult Factory.

**NON-JACKETED TANKS - ASME**

<table>
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<tr>
<th>Model</th>
<th>Part No.</th>
<th>Gal.</th>
<th>Dia.</th>
<th>Height</th>
<th>Max. Oper. Pressure</th>
<th>Weight (Lbs.)</th>
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Materials = Glass-lined steel vessel; Maximum Temperature = 180°F; Finish = Red Oxide Primer Exterior; Furnished with Magnesium Anode Rods; "M" Models have Threaded Leg Sockets to Equip Pipe Legs (Not Included) for Vertical Mounting.

**SADDLES**

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<tr>
<th>Code</th>
<th>Description</th>
<th>Diameter</th>
<th>Wt. Per Pair</th>
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<td>C</td>
<td>Compact</td>
<td>36&quot;</td>
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<td>Glass Lined</td>
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<td>M</td>
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<td>148 lbs.</td>
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<td>V</td>
<td>Vertical Mounting</td>
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</table>
Epoxy lined storage tanks are used to store cold or hot potable water. Typically used in domestic hot water storage systems.

### NON-JACKETED TANKS - ASME

<table>
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<th>Model</th>
<th>Part No.</th>
<th>Gal.</th>
<th>Dia.</th>
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<th>Weight (Lbs.)</th>
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Materials = NSF Listed Epoxy-Lined steel vessel; Maximum Temperature = 180°F; Finish = Primer Paint Exterior
Custom tanks are used for the storage of fluids and can have commercial and industrial applications. Specific linings are available for the protection of the tank inner steel walls. Custom tanks are available in 16” to 72” diameter and up to 216” over head dimensions. 125 psi rated tanks.

### PLAIN STORAGE TANK WITH STANDARD FITTINGS

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STANDARD FITTINGS

All custom tank prices include a quantity of up to six threaded openings per the table below. There is no deduction on any tank requiring less than six tappings.

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<th>Tank Diameter (in.)</th>
<th>16-20</th>
<th>24-30</th>
<th>36-42</th>
<th>48-54</th>
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BASE OPTIONS

SADDLES

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<th>Tank Dia. (in.)</th>
<th>Weight Per Pair (lbs.)</th>
<th>Extra To Weld Saddles</th>
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For additional clearance, saddles can be provided with threaded fittings for pipe legs (not included).

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<td>42” thru 72”</td>
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BASE RING

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<th>Wt. (lbs.)</th>
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ANGLE LEGS

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BASE CLEARANCE

16” TO 42" DIA. - 7”
48” TO 72" DIA. - 9”

LEG CLEARANCE - 12”

*Angle legs include foot pads.

INSPECTION OPENINGS

Black Steel – 12 x 16” manhole standard on 42” dia. and larger

Epoxy lined – 11” x 15” manhole standard on 30” dia. and larger

Glass-lined – manhole or handhole is available as optional feature

Cement lined – 11” x 15” manhole standard on 30” dia. and larger

OTHER FITTINGS

Hold Down Clips – 16” to 36” Dia
– 42” to 60” Dia
– 72” Dia

Lift Lug
## Add Tube Bundle Option

### 4" SERIES

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<th>Length of Bundle</th>
<th>Sq. Ft. Heating Surface</th>
<th>Approx. Weight (lbs.)</th>
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### COIL DATA

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**Maximum Operating Temperature:** 375°F

**NOTES:**

1. For vertical installation, select coil with required square foot area but with tube bundle not to exceed tank diameter.
2. Larger tube bundle diameters, 1 ½" bundles and double wall bundles available on request.
Thermal tanks are used to absorb the additional volume of potable water created by a domestic water heater. Properly sized, the tank will maintain system pressures below relief valve settings. Typically used in domestic water heating systems or other systems where corrosive system fluid requires stainless or corrosive resistant wetted parts.

**SIZING THERMAL EXPANSION TANKS**

To properly size a thermal expansion tank, five critical pieces of information are required:

- Total System Volume (in gallons) – Includes water heater(s) and re-circ. line volume
- Minimum In-coming Water Temperature (in degrees F)
- Maximum Water Heater Set-point Temperature (in degrees F)
- Minimum Static Water Pressure (in psig)
- Maximum Safe Pressure (in psig) – Typically relief valve less 10%

Use the following form and acceptance factor table to calculate tank sizing by hand or visit [www.westank.com/calculator](http://www.westank.com/calculator) to automatically calculate the size and model. Download our Wessels Company App to your iOS or Android device for mobile sizing on the go.

**MIN. PRESSURE (PSIG)**

**MAX. PRESSURE (PSIG)**

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**EXPANSION FACTOR**

**CALCULATE ACCEPTANCE VOLUME**

SYS. VOL. = WATER HEATER & RECIRC. VOL. GAL.

EXPANSION FACTOR

CALCULATE ACCEPTANCE VOLUME

SYS. VOL. X EXP. FACTOR GAL.

ACCEPTANCE FACTOR

CALCULATE TANK VOLUME

ACCECPTANCE VOLUME/AF GAL

SELECT MODEL
THERMAL EXPANSION TANKS

**Fixed Diaphragm**

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Materials = Steel with Epitaxial® Inner Liner, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 200°F; Finish = Blue Powder Coat Exterior; Factory Pre-charge = 30 PSIG

**Removable Bladder**

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Materials = Steel, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Red Powder Coat Exterior; Factory Pre-charge = 30 PSIG
Smart Tank Series TXA-WG are ASME removable bladder type pre-charged thermal expansion tanks with WessGuard® bladder monitor. They are designed to absorb the expansion forces and control the pressure in domestic water heating systems. The system’s expanded water is contained in a heavy-duty bladder preventing tank corrosion and waterlogging problems. If the system creates a condition that extends the bladder beyond the normal movement, WessGuard® monitor will activate an audible and LED alarm to notify maintenance staff of a potential system issue. In the case of compromised bladder integrity, water level will rise to activate the alarm.

**REMOVABLE BLADDER TANK – ASME – 150 PSI**

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**TXA-1000-WG** | 60011000   | 264  | 264     | 36   | 74  | 3           | 795        |
**TXA-1200-WG** | 60011200   | 317  | 317     | 36   | 86  | 3           | 820        |
**TXA-1400-WG** | 60011400   | 370  | 370     | 36   | 99  | 3           | 980        |
**TXA-1600-WG** | 60011600   | 422  | 422     | 48   | 72  | 3           | 1395       |
**TXA-2000-WG** | 60012000   | 528  | 528     | 48   | 85  | 3           | 1525       |

Materials = Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

Specify Standard or WessGuard-2® with Phone Texting Alerts
**FIXED DIAPHRAGM**

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Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Diaphragm; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG

**REMOVABLE BLADDER**

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Materials = Steel Shell, Stainless Steel System Connection, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG; Maximum Temperature = 240°F; Finish = Primer Painted Exterior; Factory Pre-charge = 30 PSIG
Wessels type TXA-FF tanks are ASME removable bladder type pre-charged tanks designed as a multifunctional bladder for controlling system pressures in Thermal Expansion, Hydronic Expansion, and Hydro-Pneumatic applications. The TXA-FF design incorporates a unique flow-through design that promotes fluid mixing. Mixing of the fluid inside the bladder tank disrupts stagnant water, preventing growth of potentially harmful bacteria colonies. The water is contained in a heavy-duty butyl bladder, preventing tank corrosion and waterlogging.

### REMOVABLE BLADDER TANK – 150 PSI

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### MATERIALS

- Steel Shell, Heavy Duty Butyl Bladder; Maximum Pressure = 150 PSIG
- Maximum Temperature = 240°F; Finish = Primer Painted Exterior
- Factory Pre-charge = 30 PSIG; Also available in 200 & 250 psi rated models

**ASME**
The bladder-style thermal expansion tank function is to accept expanded water created during the heating process that occurs in a domestic water heating system. The properly sized thermal expansion tank will control pressure increases in the water heating system based on the captured compressible air chamber within the tank to the designer’s acceptable limits.

Factors that can affect the pressures in the water heating system:
Properly sized thermal expansion tank
Properly installed and pre-charge adjusted thermal expansion tank
Fluctuations in line pressure
Water heater temperature range fluctuations

Until now the diagnosis of the critical component interaction arises only after expensive damages have been caused by this excessive pressure. WessGuard® was developed to monitor the fluid within the thermal expansion tank by determining excessive movement of the vessel bladder. WessGuard® incorporates a capacitive proximity sensor that determines if fluid levels in the thermal expansion tank exceed “normal” operating conditions. Furthermore, if a thermal expansion tank bladder is compromised, WessGuard® monitors the rising fluid level in the tank.

WessGuard® is designed to monitor these tank conditions and alert the installer or maintenance staff to a potentially unsafe condition by activating a visual and audible alarm. The WessGuard® monitor also has normally open contact to tie directly to an energy management system.

### WESSGUARD® RETROFIT - TXA

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<th>Monitor Lead</th>
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<th>Monitor Dimensions</th>
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FIELD RETROFIT UNIT DESIGNED FOR VESSELS WITH 1” TAPPING LOCATED IN THE TOP HALF OF A BLADDER STYLE TANK – TYPICALLY 1000 LITERS AND LARGER

Specify Standard or WessGuard-2® with Phone Texting Alerts
### TX Replacement Bladders & Covers

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