1. Introduction

GW series filter separators for wet gas, remove particles of dust, dirt, sand and pipe scale plus liquids, including water, natural gas liquids, and light hydrocarbons. These housings have a two-stage construction utilizing cartridges and a mist eliminator. Choose the vertical configuration GW Series for low-volume applications. Also available is the GE series (horizontal housing configuration) for high-volume applications. The GE series horizontal housings offer a separate lower sump for liquids collection.

Custom instrumentation and automation is also offered for these housings. Not intended for the exclusive removal of oil aerosols (See the GR series coalescer for this type of application). The standard cartridges used with these units are the NFG series filter cartridges. The NFG series cartridge elements are designed to filter-coalesce liquid particles, as well as fine dirt particles from natural gas without excessive pressure differential build-up.

Features

- All units are built to ASME Code. Optional U or UM stamp available
- 1/8" corrosion allowance
- Includes two-stage construction with cartridges and mist eliminator
- Utilizes NFG series cartridges
- Higher pressure vessels are available upon request
- Housings can be designed to customer specifications
- Can be customized with instrumentation and automation
### 2. Dimensional Information

Standard Size GW series - forward flow wet gas filter/separators with mist eliminator

![Orientation View](image1)

**NOTES:**
- H = Required clearance for cartridge removal
- J = Drain 1 inch FNPT (far side)
- K = Vent 1 inch FNPT (far side)
- L = Liquid level gauge ports 1/2 inch FNPT
- M = Closure vent 1/4 inch FNPT
- N = Differential pressure gauge ports 1/4 inch FNPT
- P = 7/8" diameter on each of 4 bolt holes, on E bolt circle
- R = High level shut down 1 inch FNPT
- *3 = 3 inches
- *12 = 12 inches

Most standard size GW series housings use NFG12, NFG24 or NFG36 filter cartridges.

Dimensions in inches. Specifications are for reference only and subject to change without notice.

<table>
<thead>
<tr>
<th>Typical Model Number</th>
<th>Ø O.D.</th>
<th>Cartridge (Qty) Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>Inlet &amp; Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>GWAC1C27F2CAN</td>
<td>6-5/8&quot;</td>
<td>(1) NFG12</td>
<td>54-3/4&quot;</td>
<td>44-1/2&quot;</td>
<td>24&quot;</td>
<td>36-1/8&quot;</td>
<td>9-1/8&quot;</td>
<td>9-1/4&quot;</td>
<td>9-1/4&quot;</td>
<td>14&quot;</td>
<td>2&quot; R.F.150# Flange</td>
</tr>
<tr>
<td>GWAC1C27F2CCN</td>
<td>6-5/8&quot;</td>
<td>(1) NFG24</td>
<td>69-3/4&quot;</td>
<td>44-1/2&quot;</td>
<td>24&quot;</td>
<td>36-1/8&quot;</td>
<td>9-1/8&quot;</td>
<td>9-1/4&quot;</td>
<td>9-1/4&quot;</td>
<td>26&quot;</td>
<td>2&quot; R.F.150# Flange</td>
</tr>
<tr>
<td>GWAC1C27F2CDN</td>
<td>6-5/8&quot;</td>
<td>(1) NFG36</td>
<td>78-3/4&quot;</td>
<td>44-1/2&quot;</td>
<td>24&quot;</td>
<td>36-1/8&quot;</td>
<td>9-1/8&quot;</td>
<td>9-1/4&quot;</td>
<td>9-1/4&quot;</td>
<td>38&quot;</td>
<td>2&quot; R.F.150# Flange</td>
</tr>
<tr>
<td>GWAC2C27F3CDN</td>
<td>8-5/8&quot;</td>
<td>(2) NFG36</td>
<td>85-3/4&quot;</td>
<td>51-1/2&quot;</td>
<td>30&quot;</td>
<td>43-1/8&quot;</td>
<td>11-1/8&quot;</td>
<td>10-1/4&quot;</td>
<td>15&quot;</td>
<td>38&quot;</td>
<td>3&quot; R.F.150# Flange</td>
</tr>
<tr>
<td>GWAC3C27F3CDN</td>
<td>10-3/4&quot;</td>
<td>(3) NFG36</td>
<td>90-3/4&quot;</td>
<td>56-1/2&quot;</td>
<td>33&quot;</td>
<td>48-1/8&quot;</td>
<td>13-1/4&quot;</td>
<td>11-3/8&quot;</td>
<td>18&quot;</td>
<td>38&quot;</td>
<td>3&quot; R.F.150# Flange</td>
</tr>
</tbody>
</table>
3. Standard Construction Notes

Intermediate and Large Size GW series - forward flow wet gas filter/separator with mist eliminator

NOTES:
- D = Required clearance for cartridge removal
- F = Bolt circle diameter
- G = Davit arm (used on 10 inch O.D. and larger housings)
- H = Blowdown 1 inch FNPT
- J = Drain 1 inch FNPT
- K = Liquid level control ports 1-1/2 inch FNPT
- L = Liquid level gauge ports 3/4 inch FNPT
- M = Closure vent 1/4 inch FNPT
- N = Differential pressure gauge ports 1/4 inch FNPT
- P = Bolt hole diameter, 4 each bolt holes, 45° off vessel centerline of F bolt circle diameter
  *14a = 14 inches
  *14b = 14-1/2 inches

Most large GW series housings use NFG336 cartridges which are 36 inches long

Dimensions in inches. Specifications are for reference only and subject to change without notice.

<table>
<thead>
<tr>
<th>Typical Model Number</th>
<th>Ø O.D.</th>
<th>Cartridge (Quantity)</th>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>P</th>
<th>Inlet &amp; Outlet size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GWAC1C_F3CJN</td>
<td>8-5/8&quot;</td>
<td>(1) NFG336</td>
<td></td>
<td>105°</td>
<td>94°</td>
<td>44°</td>
<td>26&quot;</td>
<td>12-1/2&quot;</td>
<td>11-1/8&quot;</td>
<td>7/8&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>GWAC2C_F4CJN</td>
<td>10-3/4&quot;</td>
<td>(2) NFG336</td>
<td></td>
<td>112°</td>
<td>101°</td>
<td>49°</td>
<td>26&quot;</td>
<td>13-1/2&quot;</td>
<td>13-1/4&quot;</td>
<td>7/8&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>GWAC3C_F4CJN</td>
<td>12-3/4&quot;</td>
<td>(3) NFG336</td>
<td></td>
<td>115°</td>
<td>104°</td>
<td>50°</td>
<td>26&quot;</td>
<td>14-1/2&quot;</td>
<td>15-1/4&quot;</td>
<td>7/8&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>GWAC4C_F6CJN</td>
<td>16&quot;</td>
<td>(4) NFG336</td>
<td></td>
<td>120°</td>
<td>107°</td>
<td>53°</td>
<td>26&quot;</td>
<td>16&quot;</td>
<td>18-1/2&quot;</td>
<td>7/8&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>GWAC6C_F6CJN</td>
<td>18&quot;</td>
<td>(6) NFG336</td>
<td></td>
<td>122°</td>
<td>111°</td>
<td>55°</td>
<td>26&quot;</td>
<td>17&quot;</td>
<td>20-1/2&quot;</td>
<td>7/8&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>GWAC7C_F8CJN</td>
<td>20&quot;</td>
<td>(7) NFG336</td>
<td></td>
<td>128°</td>
<td>113°</td>
<td>57°</td>
<td>26&quot;</td>
<td>20&quot;</td>
<td>22-1/2&quot;</td>
<td>7/8&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>GWAC10C_F8CJN</td>
<td>22&quot;</td>
<td>(10) NFG336</td>
<td></td>
<td>133°</td>
<td>118°</td>
<td>60°</td>
<td>26&quot;</td>
<td>21&quot;</td>
<td>25-1/2&quot;</td>
<td>1-1/8&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>GWAC12C_F8CJN</td>
<td>24&quot;</td>
<td>(12) NFG336</td>
<td></td>
<td>134°</td>
<td>119°</td>
<td>61°</td>
<td>26&quot;</td>
<td>22&quot;</td>
<td>27-1/2&quot;</td>
<td>1-1/8&quot;</td>
<td>8&quot;</td>
</tr>
<tr>
<td>GWAC14C_F10CJN</td>
<td>26&quot;</td>
<td>(14) NFG336</td>
<td></td>
<td>142°</td>
<td>125°</td>
<td>66°</td>
<td>26&quot;</td>
<td>23&quot;</td>
<td>29-1/2&quot;</td>
<td>1-1/8&quot;</td>
<td>10&quot;</td>
</tr>
<tr>
<td>GWAC17C_F10CJN</td>
<td>28&quot;</td>
<td>(17) NFG336</td>
<td></td>
<td>143°</td>
<td>126°</td>
<td>67°</td>
<td>26&quot;</td>
<td>24&quot;</td>
<td>31-1/2&quot;</td>
<td>1-1/8&quot;</td>
<td>10&quot;</td>
</tr>
<tr>
<td>GWAC18C_F12CJN</td>
<td>30&quot;</td>
<td>(18) NFG336</td>
<td></td>
<td>151°</td>
<td>132°</td>
<td>69°</td>
<td>26&quot;</td>
<td>25&quot;</td>
<td>33-1/2&quot;</td>
<td>1-1/8&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>GWAC20C_F12CJN</td>
<td>32&quot;</td>
<td>(20) NFG336</td>
<td></td>
<td>152°</td>
<td>133°</td>
<td>70°</td>
<td>26&quot;</td>
<td>26&quot;</td>
<td>35-1/2&quot;</td>
<td>1-1/8&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>GWAC25C_F14CJN</td>
<td>34&quot;</td>
<td>(25) NFG336</td>
<td></td>
<td>162°</td>
<td>141°</td>
<td>74°</td>
<td>26&quot;</td>
<td>29&quot;</td>
<td>37-1/2&quot;</td>
<td>1-1/8&quot;</td>
<td>14&quot;</td>
</tr>
<tr>
<td>GWAC28C_F14CJN</td>
<td>36&quot;</td>
<td>(28) NFG336</td>
<td></td>
<td>163°</td>
<td>142°</td>
<td>75°</td>
<td>26&quot;</td>
<td>30&quot;</td>
<td>39-1/2&quot;</td>
<td>1-1/8&quot;</td>
<td>14&quot;</td>
</tr>
</tbody>
</table>