RT SERIES DAF (DISSOLVED AIR FLOTATION) SYSTEMS

GENERAL DESCRIPTION:
Dissolved Air Flotation (DAF) is a proven and effective physical/chemical technology for treating a variety of industrial and municipal process and wastewater streams. DAF systems are commonly used to meet a variety of treatment goals including:

- Product recovery and reuse
- Pretreatment to meet sewer discharge limits
- Pretreatment to reduce loading on downstream biological treatment systems
- Polishing of biological treatment effluent
- Thickening of biosolids

Evoqua’s RT Series DAF systems are designed to remove total suspended solids (TSS), biochemical oxygen demand (BOD), and oils and greases (O&G) from a wastewater stream. Contaminants are removed through the use of a dissolved air-in-water solution produced by injecting air under pressure into a recycle stream of clarified DAF effluent. This recycle stream is then combined and mixed with incoming wastewater in an internal contact chamber where the dissolved air comes out of solution in the form of micron-sized bubbles that attach to the contaminants. The bubbles and contaminants rise to the surface and form a floating bed of material that is removed by a surface skimmer into an internal hopper for further handling.

RT SERIES DAF FEATURES
RT Series packaged DAF systems have incorporated over twenty-five years of continuous improvements with multiple installations in a variety of applications. RT systems provide unique standard features including:

- Fifteen (15) different models to meet a variety of applications and flow ranges (10 to >2,000 gpm)
- Complete, skid-mounted design for ease of installation (no field assembly required)
- Rectangular profile for maximum space utilization
- Rugged tank design that will not flex
- Superior performance without the use of plate-pack that can foul or collapse
- Quality drive and pump components for long-term reliability
- An industry-leading HELLBENDER® whitewater system that is both efficient and simple to use
- Large, internal float hopper eliminates the need for an external float tank
- Standard RT series options include:
  - Available in 304 or 316 SST tank construction
  - Recycle Piping available in PVC, CPVC, 304 SST, 316SS
  - Several controls platforms (Motor Starter, Relay Logic, Integrated Controller, Allen Bradley PLC/HMI)
### DAF EQUIPMENT SPECIFICATIONS

<table>
<thead>
<tr>
<th>DAF Model</th>
<th>Utility Requirements</th>
<th>Piping Connections and Specifications</th>
<th>Physical Dimensions**</th>
<th>Capacities</th>
<th>Weight **</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Electrical (Voltage)</td>
<td>FLA (Amps)</td>
<td>Inlet Connection (150# FLG)</td>
<td>Effluent Connection (150# FLG)</td>
<td>Float Discharge (150# FLG)</td>
</tr>
<tr>
<td>RT-015X</td>
<td>460VAC/3ph/60Hz</td>
<td>6.0</td>
<td>3&quot;</td>
<td>3&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>RT-030X</td>
<td>460VAC/3ph/60Hz</td>
<td>9.0</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>RT-050A</td>
<td>460VAC/3ph/60Hz</td>
<td>23.5</td>
<td>6&quot;</td>
<td>6&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>RT-070A</td>
<td>460VAC/3ph/60Hz</td>
<td>23.5</td>
<td>6&quot;</td>
<td>6&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>RT-080A</td>
<td>460VAC/3ph/60Hz</td>
<td>23.5</td>
<td>8&quot;</td>
<td>8&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>RT-100A</td>
<td>460VAC/3ph/60Hz</td>
<td>23.5</td>
<td>8&quot;</td>
<td>8&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>RT-125A</td>
<td>460VAC/3ph/60Hz</td>
<td>29.0</td>
<td>12&quot;</td>
<td>12&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>RT-140A</td>
<td>460VAC/3ph/60Hz</td>
<td>29.0</td>
<td>10”</td>
<td>10”</td>
<td>6”</td>
</tr>
<tr>
<td>RT-150A</td>
<td>460VAC/3ph/60Hz</td>
<td>29.0</td>
<td>12”</td>
<td>12”</td>
<td>6”</td>
</tr>
<tr>
<td>RT-160A</td>
<td>460VAC/3ph/60Hz</td>
<td>29.0</td>
<td>10”</td>
<td>10”</td>
<td>6”</td>
</tr>
<tr>
<td>RT-180A</td>
<td>460VAC/3ph/60Hz</td>
<td>29.0</td>
<td>12”</td>
<td>12”</td>
<td>6”</td>
</tr>
<tr>
<td>RT-240A</td>
<td>460VAC/3ph/60Hz</td>
<td>29.0</td>
<td>12”</td>
<td>12”</td>
<td>6”</td>
</tr>
<tr>
<td>RT-300A</td>
<td>460VAC/3ph/60Hz</td>
<td>29.0</td>
<td>10”</td>
<td>12”</td>
<td>6”</td>
</tr>
<tr>
<td>RT-350A</td>
<td>43.0</td>
<td>16”</td>
<td>16”</td>
<td>8”</td>
<td>6” FLG</td>
</tr>
<tr>
<td>RT-500A</td>
<td>43.0</td>
<td>16”</td>
<td>16”</td>
<td>8”</td>
<td>6” FLG</td>
</tr>
</tbody>
</table>

* Other voltage options available upon request  ** Estimated

### AVAILABLE RT SERIES DAF SYSTEM OPTIONS:
- Access platforms and stairs
- Flotation cell cover to contain and vent process gasses
- Integrated skid mounted flocculation tubes
- Flocculation mix tanks
- Pressure transmitter/flow monitoring sensor
- Sludge level monitoring
- Effluent TSS monitoring
- Chemical feed systems
- Polymer blend and feed systems
- Comprehensive treatability testing program
- Customization available with little impact on either delivery or cost

### KEY INDUSTRIAL MARKETS:
- Food & beverage
- Oil & gas
- By product rendering
- Pulp & paper
- Biochemical
- Manufacturing
- Mining
- Light industry