FabStream™ BGDS™: Bulk Gas Delivery System

FabStream™ BGDS™ is designed to provide end users with a continuous supply of gas from bulk sources: bundles, ton tank, truck trailers.

The full automatic BGDS™ is designed for all process gas applications. Switchover panels with in-house purge operation sequences allow to maintain the quality and the purity of the gas.

FabStream™ BGDS™ with Patented AVP (All Vapor Phase) is designed to sustain up to 6,000 slpm liquefied gas delivery with unsurpassed reliability.

Applications
Industries and processes requiring high purity high reliability gas delivery systems supplied by bulk container.

Operation
The FabStream™ BGDS™ delivers an uninterrupted supply of process gas via the auto-switchover of two supply cylinders. The controller performs an automatic purge cycle prior to a cylinder change to enable a reliable, efficient and safe cylinder change without contamination.

• Up to 6,000 slpm flow rate
• High Reliability
• Patented AVP (All Vapor Phase) technology to handle high flow liquefied gas dispense
• PLC controlled system
• Redundancy of the process valves for augmented safety
• JT Heater
**Product description**

**Features**
- Compatible with all type of bulk sources
- Autoswitch for continuous supply
- Maintain quality and purity specifications using process gas on site
- Double stage pressure regulation
- Modular panel design
- Pigtail design for purge efficiency and purge gas cost saving
- Automatic purge sequences validated with live ESG
- PLC and 10” color touch screen
- Dynamic real-time information: schematic, pressure, weight and alarms with user-friendly HMI
- All controllers include TCP/IP Ethernet Communication
- Weight scale for liquefied gas level controlling

**Technical specifications**

**Utilities requirements**

<table>
<thead>
<tr>
<th>Service</th>
<th>Pressure</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Venturi Service Nitrogen</td>
<td>6 bar</td>
<td>50 slpm</td>
</tr>
<tr>
<td>UHP Purge Nitrogen</td>
<td>6 bar</td>
<td>10 slpm</td>
</tr>
<tr>
<td>Clean Dry Air (pneumatic for valves)</td>
<td>6 bar</td>
<td>10 slpm</td>
</tr>
<tr>
<td>Vent</td>
<td>Connected to scrubber</td>
<td></td>
</tr>
<tr>
<td>Electricity (power &amp; ground)</td>
<td>110-240 VAC, 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Electricity for heaters (power &amp; ground)</td>
<td>Single phase, 110VAC, 32A, 60Hz, 220VAC, 6A, 50Hz</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Design</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-panel design</td>
<td>2,109mm</td>
<td>1,065mm</td>
<td>776mm</td>
</tr>
<tr>
<td>3-panel design</td>
<td>2,109mm</td>
<td>1,700mm</td>
<td>776mm</td>
</tr>
</tbody>
</table>

**Reliability**

- MTBF*: 3 years
- MTTR**: <2 hours
- Uptime: 99.999%

*Mean Time Between Failure  **Mean Time To Repair

**Options**

- Filters
- EFS (Excess Flow Switch)
- Pigtail box
- Dedicated purge panel
- Induction patented AVP (All Vapor Phase)
- Scrubber

**Safety features**

- Valves redundancy
- Exhaust flow alarm
- Several alarm settings and parameters
- Precise alarm messages
- Multilevel password protection to restrict access to critical functions
- Increase safety and eliminate human hazards during container changes
- Emergency gas shutdown
- Temperature alarms associated with AVP models
- N₂ purge and vacuum pressure indications

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**Certifications**

- CE Mark
- Other on request

**Contact**

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The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 68,000 employees and serves more than 3 million customers and patients*. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide’s scientific territory and have been at the core of the company’s activities since its creation in 1902.

* Following the acquisition of Airgas on 23 May 2016