NITROGEN SYSTEMS CATALOG
Low to High-Pressure Systems for Industrial Applications
# Purely the Right Choice

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PROPERTIES OF NITROGEN

- Nitrogen is an inert gas that is abundant in nature. The air we breathe consists of 78% nitrogen.
- The two great properties of nitrogen are that it is inert and typically dry.
- What makes nitrogen practically inert is the triple atomic bond of the N₂ diatom, which is one of the strongest atomic bonds observed in nature. Significant energies are needed in order to break this bond.
- Nitrogen is extremely dry with a gaseous dew point of -70°F (-57°C).
- Because of its inert nature as well as extremely dry characteristics, nitrogen is used extensively in various industrial, oil & gas, aerospace and military applications.

USES OF NITROGEN

- Drying of vessels and pipes.
- Fire and explosion prevention: When oxygen-rich air is replaced with nitrogen in vessels and critical spaces, ignition is suppressed. This prevents the possibility of fires and explosions.
- Corrosion protection: Since Nitrogen is non-reactive, oxidation and other forms of corrosion can be minimized.
- Prevention of chemical reactions: Because nitrogen is non-reactive, undesired chemical reactions in critical processes can be prevented.

GENERATING NITROGEN: PSA & MEMBRANE METHODS

Most of the nitrogen used in industrial applications is generated by separating the nitrogen from the oxygen present in ambient air. The two most common separation technologies for nitrogen are membrane and pressure swing adsorption (PSA). The benefit of these technologies is that nitrogen can be produced anywhere at any time.

PSA METHOD OF NITROGEN GENERATION

Pressure swing adsorption (PSA) is a technology used to separate some gas species from a mixture of gases under pressure according to the species’ molecular characteristics and affinity for an adsorbent material. It operates at near-ambient temperatures and differs significantly from cryogenic distillation techniques of gas separation. Specific adsorbent materials are used as a trap, preferentially adsorbing the target gas species at high pressure. The process then swings to low pressure to desorb the adsorbed material.

MEMBRANE METHOD OF NITROGEN GENERATION

Incoming air is separated inside the membrane using tens of thousands of hollow fibers, each of which is sized to capture N₂ molecules. The remaining components (mostly water vapor and oxygen) that make up ambient air are vented away from the membrane inlet before the nitrogen is delivered to the membrane outlet. Membranes have a size advantage over PSA nitrogen generation systems. They are therefore highly suitable for fully integrated nitrogen generation systems such as the NGM® and mobile systems.

TYPES OF NITROGEN AND LOGISTICS

The two common forms of industrial nitrogen are nitrogen gas and liquid nitrogen. Liquid nitrogen can be vaporized to convert it into gaseous state. For industrial applications there are three ways in which nitrogen gas is supplied:

- COMPRESSED NITROGEN GAS CYLINDERS:
  Nitrogen can be purchased in compressed gas form. This requires the use of heavy, high-pressure cylinders which can be hazardous. The use of high-pressure nitrogen cylinders is limited to small applications because of the limited storage capacity of the bottles. Furthermore, not the entire volume of the bottles can be used thus the end-user pays for gas which is not being used. Users of nitrogen cylinders are subject to the same supply chain interruption risks as users of cryogenic nitrogen.

- LOKALLY ON-DEMAND: GENERATED NITROGEN:
  Generating nitrogen onsite. This is the preferred method for end-users who are in remote locations or who cannot afford any interruption in their nitrogen supply. Generating nitrogen onsite, on-demand is simple and is explained in the following sections.
OVERVIEW OF BAUER NITROGEN SYSTEMS

35 Years Of Nitrogen Generation Experience

WHY BUY NITROGEN WHEN YOU CAN MAKE YOUR OWN?
The BAUER Nitrogen Generators are self-contained, fully integrated, modular systems that eliminate the hazards involved with the handling of high-pressure cylinders, as well as the burden of the merchant, supplied nitrogen gas. BAUER nitrogen generator systems are designed for the on-demand supply of nitrogen gas at purities up to 99.5%.

Generating nitrogen to meet customer required purity and quality is a critical process. Nitrogen generation membranes require exact control of feed-air-flow, pressure, temperature, and quality (oil content, moisture content and particulate content), which BAUER provides in its turnkey systems.

All BAUER nitrogen systems are engineered to provide years of reliable performance. Critical performance values such as pressure, temperature and O₂ content are electronically monitored after each critical process step in order to assure optimal long-term total system performance. BAUER NGM® and SNG® nitrogen systems adapt automatically to changing environmental conditions as well as changes in membranes as they age.

BAUER GUARANTEES SYSTEM PERFORMANCE OVER TIME
› Process performance monitoring after each critical step to assure nitrogen quality and purity
› Adaptive system that automatically adjusts to various ambient conditions as well as membrane aging
› Remote telemetry to provide real-time feedback of system performance

MEMBRANE NITROGEN GENERATION PROCESS

BAUER MEMBRANE BASED NITROGEN SYSTEMS FOR A WIDE VARIETY OF APPLICATIONS

BAUER produces a complete product line of membrane-based nitrogen systems suitable for a wide variety of applications including:
› Industry (Plastic Injection Molding, Inerting)
› Oil & Gas (Upstream, Midstream, Downstream, Offshore)
› Energy and Alternative Energy (Transformer, Wind, Hydro)
› Aerospace
› Military

For these applications, BAUER provides a variety of specific nitrogen systems including:
› Low-Pressure Stationary Electric Drive Systems
› High-Pressure Stationary Electric Drive Systems
› Diesel Driven High and Low-Pressure Portable Systems
› System Size Ranges from 7.5 HP to 700 HP

BAUER MEMBRANE NITROGEN SYSTEMS FOR A WIDE VARIETY OF APPLICATIONS

<table>
<thead>
<tr>
<th>Model Series</th>
<th>Drive Use</th>
<th>Final Pressure</th>
<th>Flow Range</th>
<th>N₂ Purity Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGM® Electric Stationary</td>
<td>150</td>
<td>10-224</td>
<td>17-284</td>
<td>95-99.5%</td>
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<tr>
<td>SNG® Electric Stationary</td>
<td>8000</td>
<td>345</td>
<td>9-750</td>
<td>15-1274</td>
</tr>
<tr>
<td>MNG II Diesel Mobile</td>
<td>90-5000</td>
<td>6-345</td>
<td>9-16</td>
<td>15-27</td>
</tr>
</tbody>
</table>

BAUER GUARANTEES SYSTEM PERFORMANCE OVER TIME

› Process performance monitoring after each critical step to assure nitrogen quality and purity
› Adaptive system that automatically adjusts to various ambient conditions as well as membrane aging
› Remote telemetry to provide real-time feedback of system performance

MEMBRANE NITROGEN GENERATION PROCESS

SNG® Stationary Nitrogen Generation System
(For high-pressure applications)

NGM® Stationary Nitrogen Generation System
(For low to medium-pressure applications)

MNG II Mobile Nitrogen Generation System
(For various high-pressure applications)
The BAUER NGM® system is an integrated stationary rugged membrane-based nitrogen generation system. Flow Range: (10 SCFM/16 m3/hr) to (226 SCFM / 384 m3/hr). Nitrogen Purity Range: 96% to 99.5%. Final Pressure: Up to 150 PSIG (10 bar). All NGM® Nitrogen generation systems are fully integrated and designed to be “plug-and-play”. They incorporate a BAUER Rotorcomp™ feed air compressor, PLC control system with integrated BAUER CONNECT® IoT remote telemetry, inlet air filtration and reheating system, nitrogen separation membranes and a nitrogen buffer receiver.

This system has guaranteed performance in ambient conditions. By utilizing a variable speed motor drive to precisely control inlet airflow and pressure to the nitrogen separation membranes in various ambient conditions, BAUER NGM® systems are designed to always maintain consistent performance as related to output nitrogen flow and nitrogen purity.

STANDARD SCOPE OF SUPPLY

- Self-contained, fully-integrated turnkey nitrogen generation system for discharge pressures up to 150 PSIG
- Engineered to operate reliably in harsh industrial settings
- Feed air compressor; single-stage air-cooled, oil-injected, continuous-duty rotary screw compressor
- Port for condensate drain to customer collection device or drain system
- 3-stage membrane pre-filtration system
- High durability membrane air separators
- TEFC electric motors for each compressor with v-belt drive, guard and tensioning device
- Variable frequency speed control
- UL® labeled Control Panel with PLC controller. Includes touchscreen interface (for operation, maintenance, and troubleshooting)
- In-line oxygen analyzer to determine nitrogen purity
- Pressure sensors for monitoring oil and final product pressure
- 24-month warranty, lifetime support guarantee

BAUER NGM® SYSTEM FEATURES

- Wide ambient operating temperature range 40° to 113°F (4.4° to 45°C)
- Electrically powered and available in the following power configurations:
  - 460 v, 3ph, 60 hz (standard)
  - 380/400 v, 3 ph, 50 hz or 60 hz (optional)
  - 575 v, 3 ph, 60 hz (optional)
- Weatherproof enclosure
- BAUER Connect® IoT Remote Telemetry

OPTIONAL FEATURES:

- Class I, Div2 execution for hazardous locations
- Sound attenuation (less than 85dBA)
- Special Marine/Offshore Paint

KEY FEATURES AND BENEFITS

- Uninterrupted \( N_2 \) Supply: Point-of-use nitrogen generation provides an alternative to external sources of nitrogen by eliminating potential supply chain interruptions and the logistical hassles associated with merchant gas
- Cost Savings: Point-of-use nitrogen systems are a cost-effective alternative to merchant gas that require long-term contracts and are associated with long-term locked-in rates
- Personnel Safety: Point-of-use nitrogen is a safer alternative by eliminating the need for shuttling heavy merchant gas bottles back and forth between supplier and point of use
- Robust Design: All BAUER on-demand nitrogen systems are designed to operate continuously in all manner of severe ambient conditions indoors or outdoors
- Superior Reliability: All BAUER systems are designed and manufactured to provide BAUER’s legendary reliability and performance with the lowest overall lifecycle cost. In addition, every system is backed by BAUER’s two (2) year all-inclusive warranty and lifetime support

**BAUER NGM® FLOW/PURITY PERFORMANCE PER MODEL**

Performance based on Outlet Pressure of 150 PSIG (10 BAR), Ambient Temperature of 110°F (43°C), Elevation: Sea Level, and RH of 65%. Lower discharge pressures are possible with optional integrated pressure regulation. Motor power range of 10 HP (7.5 KW) to 750 HP (560 KW).
BAUER NGM® 3 & 6
Designed for Low Nitrogen Flow Requirements
- Nitrogen Purity Range: 96% to 99.5%
- Final Pressure: Up to 150 PSIG

AVAILABLE OPTIONS
- Marine / offshore special paint
- Class I, Div II for hazardous zone classification
- Two-stage intake filter for high-dust environments
- CE compliance

SYSTEM FOOTPRINT
DIMENSIONS L X W X H inches
- NGM 3&6: 108x48x80
- NGM 3: 3250
- NGM 6: 3500

BAUER NGM® 9
Designed for Low To Medium Nitrogen Flow Requirements
- Nitrogen Purity Range: 96% to 99.5%
- Final Pressure: Up to 150 PSIG

AVAILABLE OPTIONS
- Marine / offshore special paint
- Class I, Div II for hazardous zone classification
- Two-stage intake filter for high-dust environments
- CE compliance

SYSTEM FOOTPRINT
DIMENSIONS L X W X H inches
- 125 x 95 x 95
- NGM 9: 6250

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Size</th>
<th>Nitrogen Purity</th>
<th>Nitrogen Flow</th>
<th>Discharge Pressure</th>
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<tbody>
<tr>
<td>NGM® 3</td>
<td>HP</td>
<td>KW</td>
<td>SCFM</td>
<td>M3/HR</td>
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<tr>
<td>NGM 3-25</td>
<td>25</td>
<td>18</td>
<td>96.0%</td>
<td>21</td>
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<tr>
<td>NGM 3-25</td>
<td>25</td>
<td>18</td>
<td>97.0%</td>
<td>17</td>
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<td>NGM 3-25</td>
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<td>18</td>
<td>98.0%</td>
<td>13</td>
</tr>
<tr>
<td>NGM 3-25</td>
<td>25</td>
<td>18</td>
<td>99.0%</td>
<td>10</td>
</tr>
<tr>
<td>NGM 3-25</td>
<td>25</td>
<td>18</td>
<td>99.5%</td>
<td>10</td>
</tr>
<tr>
<td>NGM® 6</td>
<td>HP</td>
<td>KW</td>
<td>SCFM</td>
<td>M3/HR</td>
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<td>NGM 6-50</td>
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<td>NGM 6-50</td>
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<td>37</td>
<td>97.0%</td>
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<tr>
<td>NGM 6-50</td>
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<td>NGM 6-50</td>
<td>50</td>
<td>37</td>
<td>99.5%</td>
<td>20</td>
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</table>

Note: NGM performance data is stated at the following ambient conditions: Temperature: 110°F / 43°C, Elevation: sea level, Relative Humidity: 65%.
BAUER NGM® 15

Designed for Medium Nitrogen Flow Requirements

- Nitrogen Purity Range: 96% to 99.5%
- Final Pressure: Up to 150 PSIG

SYSTEM FOOTPRINT

- Dimensions L X W X H: 161 x 95 x 95
- Weight: 9500 lbs

AVAILABLE OPTIONS

- Sound attenuated enclosure for compressor and membrane module
- Marine/offshore special paint
- Class I, Div II for hazardous zone classification
- Two-stage intake filter for high-dust environments
- CE compliance

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Size</th>
<th>Nitrogen Purity</th>
<th>Nitrogen Flow</th>
<th>Discharge Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGM 15</td>
<td>125 HP</td>
<td>96.0%</td>
<td>145 SCFM</td>
<td>246 M3/HR</td>
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<tr>
<td>NGM 15-125</td>
<td>90 KW</td>
<td>97.0%</td>
<td>128 SCFM</td>
<td>217 M3/HR</td>
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<td>NGM 15-125</td>
<td>90 HP</td>
<td>98.0%</td>
<td>100 SCFM</td>
<td>170 M3/HR</td>
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<tr>
<td>NGM 15-125</td>
<td>90 KW</td>
<td>99.0%</td>
<td>81 SCFM</td>
<td>138 M3/HR</td>
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<tr>
<td>NGM 15-125</td>
<td>90 HP</td>
<td>99.5%</td>
<td>63 SCFM</td>
<td>107 M3/HR</td>
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</tbody>
</table>

Note: NGM performance data is stated at the following ambient conditions: Temperature: 110°F / 43°C, Elevation: sea level, Relative Humidity: 65%.

BAUER NGM® 28

Designed for Medium Nitrogen Flow Requirements

- Nitrogen Purity Range: 96% to 99.5%
- Final Pressure: Up to 150 PSIG

SYSTEM FOOTPRINT

- Dimensions L X W X H: 161 x 95 x 95
- Weight: 10000 lbs

AVAILABLE OPTIONS

- Sound attenuated enclosure for compressor and membrane module
- Marine/offshore special paint
- Class I, Div II for hazardous zone classification
- Two-stage intake filter for high-dust environments
- CE compliance

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor Size</th>
<th>Nitrogen Purity</th>
<th>Nitrogen Flow</th>
<th>Discharge Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGM 28</td>
<td>250 HP</td>
<td>96.0%</td>
<td>226 SCFM</td>
<td>384 M3/HR</td>
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<tr>
<td>NGM 28-250</td>
<td>187 KW</td>
<td>97.0%</td>
<td>208 SCFM</td>
<td>353 M3/HR</td>
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<tr>
<td>NGM 28-250</td>
<td>187 HP</td>
<td>98.0%</td>
<td>203 SCFM</td>
<td>345 M3/HR</td>
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<tr>
<td>NGM 28-250</td>
<td>187 KW</td>
<td>99.0%</td>
<td>149 SCFM</td>
<td>253 M3/HR</td>
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<tr>
<td>NGM 28-250</td>
<td>187 HP</td>
<td>99.5%</td>
<td>117 SCFM</td>
<td>199 M3/HR</td>
</tr>
</tbody>
</table>

Note: NGM performance data is stated at the following ambient conditions: Temperature: 110°F / 43°C, Elevation: sea level, Relative Humidity: 65%.
BAUER SNG® 
Membrane Based High Pressure Nitrogen Systems

The BAUER SNG® product line is an extension of the BAUER NGM® membrane-based nitrogen generation system but for applications where higher pressures up to 5000 PSIG (350 bar) required. Flow Range: (10 SCFM / 16 m3/hr) to (750 SCFM / 1295 m3/hr). Nitrogen Purity Range: 96% to 99.5%. Final Pressure: Up to 5000 PSIG (350 bar).

All BAUER SNG® nitrogen generator systems are fully integrated and designed to be "plug-and-play". They incorporate a BAUER NGM® nitrogen generation system with a matching BAUER high-pressure reciprocating booster compressor.

Guaranteed Performance in All Ambient Conditions - by utilizing a variable speed motor drive to precisely control air flow and pressure to the nitrogen separation membranes in various ambient conditions, BAUER SNG® systems are designed to always maintain consistent performance as related to nitrogen flow and nitrogen purity.

STANDARD SCOPE OF SUPPLY

- Self-contained, fully-integrated turnkey nitrogen generation system with integrated high-pressure booster for discharge pressures up to 6,000 PSIG
- Engineered to operate reliably in harsh industrial setting
- Feed air compressor: single-stage air-cooled, oil-injected, continuous-duty rotary screw compressor
- High pressure multi-stage reciprocating booster compressor, pressure-lubricated, continuous-duty rated
- 3-stage membrane pre-filtration system
- High durability membrane air separators
- TEFC electric motors for each compressor with v-belt drive, guard, and belt tensioning device
- Port for condensate drain to customer collection device or drain system
- UL® labeled Control Panel with PLC controller. Includes touchscreen interface (for operation, maintenance and troubleshooting)
- In-line oxygen analyzer to determine nitrogen purity
- Pressure sensors for oil and final product pressure
- 24-month warranty, lifetime support guarantee

BAUER SNG® SYSTEM FEATURES

- Wide ambient operating temperature range 40°F to 113°F (4.4° to 45°C)
- Electrically powered and available in the following power configurations:
  - 460 v, 3hp, 60 hz (standard)
  - 380/400 v, 3 ph 50 or 60 hz (optional)
  - 580 v, 3 ph, 60 hz (optional)
- Weatherproof enclosure
- BAUER CONNECT® IoT Remote Telemetry
  - *Other voltages available upon request

OPTIONAL FEATURES:

- Class 1, Div2 execution for hazardous locations
- Sound attenuation (less than 85dBA)
- Special Offshore Paint
- 24-month warranty, lifetime support guarantee

HIGH PRESSURE NITROGEN FROM THE HIGH PRESSURE EXPERTS

BAUER is recognized worldwide as the leader in high-pressure compressors. BAUER Compressors’ durability, reliability, and wide range are unmatched in the industry. The entire range of the BAUER NGM® nitrogen generation systems can, therefore, be covered by integrating BAUER high-pressure booster compressor when nitrogen has to be delivered at pressures up 6000 PSIG.

The table below illustrates the performance of the BAUER High-Pressure Booster range from 7.5 HP (5.5 kW) to 450 HP (315 kW).

KEY FEATURES AND BENEFITS

- Uninterrupted N₂ Supply: Point-of-use nitrogen generation provides an alternative to external sources of nitrogen by eliminating potential supply chain interruptions and the logistical hassles associated with merchant gas
- Cost Savings: Point-of-use nitrogen systems are a cost-effective alternative to merchant gas which require long-term contracts and are associated with long-term locked-in rates
- Personnel Safety: Point-of-use nitrogen is a safer alternative by eliminating the need for shuttling heavy merchant gas cylinders back and forth between supplier and point of use
- Robust Design: All BAUER on-demand nitrogen systems are designed to operate continuously in all manner of severe ambient conditions indoors or outdoors
- Superior Reliability: All BAUER systems are designed and manufactured to provide BAUER’s legendary reliability and performance with lowest overall lifecycle cost.

### HIGH PRESSURE BOOSTER

<table>
<thead>
<tr>
<th>Model</th>
<th>Power (HP)</th>
<th>Speed (RPM)</th>
<th>Inlet Pressure Range</th>
<th>Final Pressure (PSIG)</th>
<th>Min Flow (SCFM)</th>
<th>Max Flow (SCFM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIB 12.2</td>
<td>7.5</td>
<td>5.5</td>
<td>1230</td>
<td>75-160</td>
<td>5-11</td>
<td>12</td>
</tr>
<tr>
<td>GIB 15.3</td>
<td>15.0</td>
<td>11.0</td>
<td>1140</td>
<td>105-145</td>
<td>7-10</td>
<td>18</td>
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<tr>
<td>GIB 22.12</td>
<td>45.0</td>
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<td>1180-1480</td>
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<td>40</td>
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<td>GIB 23.12</td>
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<td>116-145</td>
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<td>GIB 26.12</td>
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<td>162</td>
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<tr>
<td>GIB 52.13</td>
<td>450.0</td>
<td>315.0</td>
<td>1000-1485</td>
<td>87-145</td>
<td>6-10</td>
<td>324</td>
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</tbody>
</table>

Note: SNG performance data is stated in accordance with ISO 1217 at the following ambient conditions: Temperature: 110°F / 43°C, Elevation: sea level, Relative Humidity: 65%.

### Model Features:

- **Uninterrupted N₂ Supply:** Point-of-use nitrogen generation provides an alternative to external sources of nitrogen by eliminating potential supply chain interruptions and the logistical hassles associated with merchant gas

### Cost Savings:

- **Cost Savings:** Point-of-use nitrogen systems are a cost-effective alternative to merchant gas which require long-term contracts and are associated with long-term locked-in rates

### Personnel Safety:

- **Personnel Safety:** Point-of-use nitrogen is a safer alternative by eliminating the need for shuttling heavy merchant gas cylinders back and forth between supplier and point of use

### Robust Design:

- **Robust Design:** All BAUER on-demand nitrogen systems are designed to operate continuously in all manner of severe ambient conditions indoors or outdoors

### Superior Reliability:

- **Superior Reliability:** All BAUER systems are designed and manufactured to provide BAUER’s legendary reliability and performance with lowest overall lifecycle cost.

In addition, every system is backed by BAUER’s two (2) year all-inclusive warranty and lifetime support service.

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*Other voltages available upon request

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GIB 15.3 Booster

GIB 22.12 Booster

GIB 23.12 Booster

GIB 26.12 Booster

BAUER SNG® III-3, III-6 & III-6/6
Designed for Low Nitrogen Flow Requirements
Stationary On-Demand Nitrogen Generation System for High Pressure Applications up to 6000 PSIG (SNGIII-6/6) 5000 PSIG (SNGIII-3 and SNGIII-6)

SYSTEM FOOTPRINT
DIMENSIONS L X W X H inches
- SNG III 3 & III-6: 108x48x80
WEIGHT pounds
- SNGIII-3: 3500
- SNGIII-6: 3750
- SNGIII-6/6: 3875

AVAILABLE OPTIONS
- Marine/offshore special paint
- Class I, Div II for hazardous zone classification
- Two-stage intake filter for high-dust environments
- CE compliance
- Modular high-pressure storage cylinder systems (UN ISO or ASME) with integrated high-flow pressure regulation panel

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Feed Air Compressor</th>
<th>Booster Compressor</th>
<th>Nitrogen Flow at 98% Purity</th>
<th>Nitrogen Flow at 99% Purity</th>
<th>Nitrogen Flow at 99.5% Purity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Motor</td>
<td>Model</td>
<td>Motor</td>
<td>SCFM</td>
<td>M³/HR</td>
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<tr>
<td>FINAL PRESSURE 5000 PSIG [345 BAR]</td>
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<td></td>
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<tr>
<td>SNG® III-3</td>
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<td>50</td>
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</tbody>
</table>

Stated performance based on ambient Temperature of 79°F (26°C), Elevation: Sea Level, and RH of 55%.

BAUER SNG® 9
Designed for Low to Medium Nitrogen Flow Requirements
Stationary On-Demand Nitrogen Generation System for High Pressure Applications up to 5000 PSIG

SYSTEM FOOTPRINT
DIMENSIONS L X W X H inches
- SNG 9: 125x95x95
WEIGHT pounds
- SNG 9: 7500

AVAILABLE OPTIONS
- Marine/offshore special paint
- Class I, Div II for hazardous zone classification
- Two-stage intake filter for high-dust environments
- CE compliance
- Modular high-pressure storage cylinder systems (UN ISO or ASME) with integrated high-flow pressure regulation panel

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Feed Air Compressor</th>
<th>Booster Compressor</th>
<th>Nitrogen Flow at 98% Purity</th>
<th>Nitrogen Flow at 99% Purity</th>
<th>Nitrogen Flow at 99.5% Purity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Motor</td>
<td>Model</td>
<td>Motor</td>
<td>SCFM</td>
<td>M³/HR</td>
</tr>
<tr>
<td>FINAL PRESSURE 5000 PSIG [345 BAR]</td>
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</table>

Stated performance based on ambient Temperature of 79°F (26°C), Elevation: Sea Level, and RH of 55%.
WHY BUY NITROGEN WHEN YOU CAN MAKE YOUR OWN?
The BAUER Nitrogen Generators are self-contained, fully integrated, modular systems that eliminate the hazards involved with the handling of high-pressure cylinders, as well as the burden of the merchant-supplied nitrogen gas. BAUER PSA nitrogen generator systems are designed for the on-demand supply of nitrogen gas at purities up to 99.999%.

Generating nitrogen to meet customer required purity and quality is a critical process. BAUER PSA nitrogen generation systems require exact control of feed-air-flow, pressure, temperature, and quality (oil content, moisture content and particulate content), which BAUER provides in its systems.

All BAUER PSA nitrogen systems are engineered to provide years of reliable performance. Critical performance values such as pressure, temperature and O₂ content are electronically monitored after each critical process step in order to assure optimal long-term total system performance. BAUER NPX™ nitrogen systems adapt automatically to changing environmental conditions, as well as, changes in PSA systems as they age.

BAUER GUARANTEES SYSTEM PERFORMANCE OVER TIME
› Process performance monitoring after each critical step to assure nitrogen quality and purity
› Adaptive system that automatically adjusts to various ambient conditions, as well as, PSA aging
› Remote telemetry to provide real-time feedback of system performance

PSA NITROGEN GENERATION PROCESS

BAUER produces a complete product line of PSA-based nitrogen systems suitable for a wide variety of applications including:
› Chemical Plants (blanketing)
› Electronics (wave soldering)
› Food & Beverage (MAP)
› Plastic Injection Molding (Gas Injection Technology)
› Oil & Gas Refineries (blanketing)
› Structural Foam Molding

For these applications, BAUER PSA nitrogen generating systems are configured to include:
› Feed air system (optional)
› Feed air buffer tanks
› Pre-filtration, Post-filtration, and desiccant dryers
› Nitrogen generators
› PSA swing buffer tanks
› BAUER N-Series boosters compressor (optional)

<table>
<thead>
<tr>
<th>Model</th>
<th>Nitrogen Purity</th>
<th>Nitrogen Flow From PSA*</th>
<th>Discharge Pressure From PSA</th>
<th>Required Feed Air Pressure</th>
<th>Required Feed Air Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSTEM 1</td>
<td>99.5-99.999%</td>
<td>4.5-19.6</td>
<td>7.6-33.3</td>
<td>71-74</td>
<td>4.9-5.1</td>
</tr>
<tr>
<td>SYSTEM 2</td>
<td>99.5-99.999%</td>
<td>6.8-29.9</td>
<td>11.6-50.8</td>
<td>71-74</td>
<td>4.9-5.1</td>
</tr>
<tr>
<td>SYSTEM 3</td>
<td>99.5-99.999%</td>
<td>10.8-47.2</td>
<td>18.3-80.2</td>
<td>71-74</td>
<td>4.9-5.1</td>
</tr>
<tr>
<td>SYSTEM 4</td>
<td>99.5-99.999%</td>
<td>24.8-108.6</td>
<td>42.1-184.5</td>
<td>71-74</td>
<td>4.9-5.1</td>
</tr>
</tbody>
</table>

* Nitrogen flow is dependent on desired nitrogen purity.

*Note: PSA Feed Air System can be provided by Customer or by BAUER.
BAUER NPX™ SYSTEM 1

Designed for High-Purity Nitrogen Flow
Stationary On-Demand Nitrogen Generation System
4.5-19.6 SCFM @99.5 - 99.999% N₂

SYSTEM FOOTPRINT
DIMENSIONS L X W X H inches
➤ System 1: 136” x 90” x 96” (3454 mm x 2286 mm x 2438 mm). Approximate.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nitrogen Purity</th>
<th>Nitrogen Flow From PSA</th>
<th>Discharge Pressure From PSA</th>
<th>Required Feed Air Pressure</th>
<th>Required Feed Air Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPX100S1-995</td>
<td>99.5%</td>
<td>19.6</td>
<td>35.3</td>
<td>71</td>
<td>4.9</td>
</tr>
<tr>
<td>NPX100S1-999</td>
<td>99.9%</td>
<td>13.7</td>
<td>23.3</td>
<td>72</td>
<td>4.9</td>
</tr>
<tr>
<td>NPX100S1-9999</td>
<td>99.99%</td>
<td>8.6</td>
<td>14.6</td>
<td>74</td>
<td>5.1</td>
</tr>
<tr>
<td>NPX100S1-99999</td>
<td>99.999%</td>
<td>4.5</td>
<td>7.6</td>
<td>74</td>
<td>5.1</td>
</tr>
</tbody>
</table>

Performance based on the following: 95°F Ambient & 104°F Feed Air Temperatures
Designed to meet ISO 8573 Cl. 1.2.1 quality Nitrogen; Particle < 10 Particle/m³ of 1-5 micron, Pressure Dew Point: ≤ -40°C, Oil: < 0.01 mg/m³

BAUER NPX™ SYSTEM 2

Designed for High-Purity Nitrogen Flow
Stationary On-Demand Nitrogen Generation System
6.8-29.9 SCFM @99.5 - 99.999% N₂

SYSTEM FOOTPRINT
DIMENSIONS L X W X H inches
➤ System 2: 136” x 90” x 96” (3454 mm x 2286 mm x 2438 mm). Approximate.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nitrogen Purity</th>
<th>Nitrogen Flow From PSA</th>
<th>Discharge Pressure From PSA</th>
<th>Required Feed Air Pressure</th>
<th>Required Feed Air Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPX100S2-995</td>
<td>99.5%</td>
<td>29.9</td>
<td>50.8</td>
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<tr>
<td>NPX100S2-999</td>
<td>99.9%</td>
<td>20.9</td>
<td>35.5</td>
<td>72</td>
<td>4.9</td>
</tr>
<tr>
<td>NPX100S2-9999</td>
<td>99.99%</td>
<td>13.0</td>
<td>22.1</td>
<td>74</td>
<td>5.1</td>
</tr>
<tr>
<td>NPX100S2-99999</td>
<td>99.999%</td>
<td>6.8</td>
<td>11.6</td>
<td>74</td>
<td>5.1</td>
</tr>
</tbody>
</table>

Performance based on the following: 95°F Ambient & 104°F Feed Air Temperatures
Designed to meet ISO 8573 Cl. 1.2.1 quality Nitrogen; Particle < 10 Particle/m³ of 1-5 micron, Pressure Dew Point: ≤ -40°C, Oil: < 0.01 mg/m³
BAUER NPX™ SYSTEM 3
Designed for High-Purity Nitrogen Flow
Stationary On-Demand Nitrogen Generation System 10.8-47.2 SCFM @99.5 - 99.99% N₂

**SYSTEM FOOTPRINT**

**DIMENSIONS L X W X H inches**
- System 3: 126 x 90 x 96 (3200 mm x 2286 mm x 2438 mm). Approximate.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nitrogen Purity</th>
<th>Nitrogen Flow From PSA</th>
<th>Discharge Pressure From PSA</th>
<th>Required Feed Air Pressure</th>
<th>Required Feed Air Flow</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>SCFM M3/HR</td>
<td>PSIG BARG</td>
<td>PSIG BARG</td>
<td>SCFM M3/HR</td>
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<tr>
<td>SYSTEM 3</td>
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<td>NPX100S3-995</td>
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<td>56.1</td>
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<td>4.9</td>
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<tr>
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<td>99.99%</td>
<td>20.6</td>
<td>35</td>
<td>74</td>
<td>5.1</td>
</tr>
<tr>
<td>NPX100S3-99999</td>
<td>99.999%</td>
<td>10.8</td>
<td>18.3</td>
<td>74</td>
<td>5.1</td>
</tr>
</tbody>
</table>

Performance based on the following: 90°F Ambient & 154°F Feed Air Temperature
Designed to meet ISO 8573 Cl. 1.2.1 quality Nitrogen; Particle: < 10 Particle/m³ of 1-5 micron, Pressure Dew Point: ≤ -40°C, Oil: < 0.01 mg/m³

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BAUER NPX™ SYSTEM 4
Designed for High-Purity Nitrogen Flow
Stationary On-Demand Nitrogen Generation System 24.8-108.6 SCFM @99.5 - 99.999% N₂

**SYSTEM FOOTPRINT**

**DIMENSIONS L X W X H inches**
- System 4 (PSA): 126 x 90 x 85 (3200 mm x 2286 mm x 2159 mm). Approximate.
- System 4 (Tank): 126 x 90 x 97 (3200 mm x 2286 mm x 2464 mm). Approximate.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nitrogen Purity</th>
<th>Nitrogen Flow From PSA</th>
<th>Discharge Pressure From PSA</th>
<th>Required Feed Air Pressure</th>
<th>Required Feed Air Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SCFM M3/HR</td>
<td>PSIG BARG</td>
<td>PSIG BARG</td>
<td>SCFM M3/HR</td>
<td></td>
</tr>
<tr>
<td>SYSTEM 4</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>NPX100S4-995</td>
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<td>108.6</td>
<td>184.5</td>
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<td>4.9</td>
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<tr>
<td>NPX100S4-999</td>
<td>99.9%</td>
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<td>129.1</td>
<td>72</td>
<td>4.9</td>
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<td>NPX100S4-9999</td>
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<td>47.4</td>
<td>80.5</td>
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<td>5.1</td>
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<tr>
<td>NPX100S4-99999</td>
<td>99.999%</td>
<td>24.8</td>
<td>42.1</td>
<td>74</td>
<td>5.1</td>
</tr>
</tbody>
</table>

Performance based on the following: 90°F Ambient & 154°F Feed Air Temperature
Designed to meet ISO 8573 Cl. 1.2.1 quality Nitrogen; Particle: < 10 Particle/m³ of 1-5 micron, Pressure Dew Point: ≤ -40°C, Oil: < 0.01 mg/m³
NITROGEN COMPRESSORS

Fully utilize your purchased nitrogen bottles and maximize your supply-gas investment. Our nitrogen solutions are available in a wide variety of capacities and pressures. This highly engineered product range will fully deplete your purchased nitrogen supply, allowing for more reliable and extended process operations.

- No more pressure equalization in your supply gas = no more wasted gas = full value for your investment.
- Our nitrogen compressors are optimized for nearly any application.
- Complete sound attenuation for indoor environments
- Automatic start/stop operation
- Robust filtration to ensure peak gas quality
- Inlet regulation system (as required)

BAUER N-SERIES 1
Compact Design for Low-Flow Applications
Air-Cooled – 3-, 4-, and 5-Stage Compressors

SYSTEM FOOTPRINT

DIMENSIONS L x W x H inches (mm)
Enclosed Design
- 55” x 35” x 70” (1397 mm x 889 mm x 1778 mm)
Open Design
- 54” x 34” x 56” (1372.6 mm x 863.6 mm x 1422.4 mm)

WEIGHT pounds (kg)
Enclosed Design
- 800-1400 lbs (363-635 kg)
Open Design
- 800 - 900 lbs (363 - 408.2 kg)

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Inlet Pressure</th>
<th>Capacity FGD</th>
<th>RPM</th>
<th>Number of Stages</th>
<th>Motor</th>
<th>Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSIG</td>
<td>mBAR</td>
<td>SCFM</td>
<td>M³/HR</td>
<td>HP</td>
<td>KW</td>
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<tr>
<td>UP TO 5000 PSIG OPERATING PRESSURE (LOW INLET PRESSURE)</td>
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<td></td>
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<td></td>
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<tr>
<td>V*CN100</td>
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<td>5</td>
<td>8.5</td>
<td>1470</td>
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<td>UP TO 7000 PSIG OPERATING PRESSURE (LOW INLET PRESSURE)</td>
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<td>15.2-26.5</td>
<td>25.8-45</td>
<td>1350</td>
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</tbody>
</table>

BAUER N-SERIES 2
Air-Cooled Design for Low to Medium Flow Applications

SYSTEM FOOTPRINT

DIMENSIONS L x W x H inches (mm) approx.*
- 97” x 58” x 85” (2464 mm x 1473 mm x 2159 mm)
WEIGHT pounds (kg) approx.
- 3200-4000 lbs (1066-1814 kg)
Depending upon model and options

Frame redesign in progress image is only representative.

FULLY INTEGRATED SOLUTIONS

- No more pressure equalization in your supply gas = no more wasted gas = full value for your investment.
- Our nitrogen compressors are optimized for nearly any application.
- Complete sound attenuation for indoor environments
- Automatic start/stop operation
- Robust filtration to ensure peak gas quality
- Inlet regulation system (as required)

* E = Open Design, A = Enclosed Design
† Volume flow rate according to ISO 1217. Valid for Air and Nitrogen. Capacities for low inlet pressure models referenced to atmospheric inlet pressure. Capacities for elevated inlet pressure models referenced to min. / max. inlet pressure. Motor power valid for max. inlet and final pressure. Actual performance values may vary depending upon site conditions.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Inlet Pressure</th>
<th>Capacity FGD</th>
<th>RPM</th>
<th>Number of Stages</th>
<th>Motor</th>
<th>Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSIG</td>
<td>mBAR</td>
<td>SCFM</td>
<td>M³/HR</td>
<td>HP</td>
<td>KW</td>
</tr>
<tr>
<td>UP TO 5000 PSIG OPERATING PRESSURE (LOW INLET PRESSURE)</td>
<td></td>
<td></td>
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<td></td>
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<td>G2530</td>
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<tr>
<td>UP TO 7000 PSIG OPERATING PRESSURE (LOW INLET PRESSURE)</td>
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<td></td>
</tr>
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<td>G25.9</td>
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<td>67</td>
<td>114</td>
<td>1180</td>
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<td>138</td>
<td>1100</td>
<td>5</td>
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</table>

† Volume flow rate according to ISO 1217. Valid for Air and Nitrogen. Capacities for low inlet pressure models referenced to atmospheric inlet pressure. Capacities for elevated inlet pressure models referenced to min. / max. inlet pressure. Motor power valid for max. inlet and final pressure. Actual performance values may vary depending upon site conditions.
BAUER N-SERIES 3
Air-Cooled Design for Low to Medium Flow Applications

SYSTEM FOOTPRINT
DIMENSIONS L x W x H inches (mm) approx.
Enclosed Design
› 42” x 60” x 74” (1067 mm x 1524 mm x 1905 mm)
Open Design
› 97” x 58” x 85” (2464 mm x 1473 mm x 2159 mm)

WEIGHT pounds (kg) approx.
Enclosed Design
› 2300 lbs (1043 kg)
Open Design
› 3200-4000 lb (1446-1814 kg)

TECHNICAL DATA
<table>
<thead>
<tr>
<th>Model</th>
<th>Max Inlet Pressure</th>
<th>Capacity FGD</th>
<th>RPM</th>
<th>Number of Stages</th>
<th>Motor</th>
<th>Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSIG mBAR SCFM M^3/HR</td>
<td>HP KW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

1 Volume flow rate according to ISO 1217. Valid for Air and Nitrogen. Capacities for low inlet pressure models referenced to atmospheric inlet pressure. Capacities for elevated inlet pressure models referenced to min. / max. inlet pressure. Motor power valid for max. inlet and final pressure. Actual performance values may vary depending upon site conditions.

1 Volume flow rate according to ISO 1217. Valid for Air and Nitrogen. Motor power is dependent upon inlet pressure. Contact BAUER for motor power for specific applications. Actual performance value may vary depending on site conditions. 2 Lower inlet pressure can result in lower operating pressure. Contact BAUER for min. / max. operating pressure relative to inlet pressure.

BAUER N-SERIES 4
Air-Cooled Designed for High-Flow Applications

SYSTEM FOOTPRINT
DIMENSIONS L x W x H inches (mm)
Enclosed Design
› 133” x 104” x 115” (3378 mm x 2642 mm x 2921 mm)
Open Design
› 138” x 56” x 84” (3505 mm x 1422 mm x 2134 mm)

WEIGHT pounds (kg) approx.
Enclosed Design
› 10000 lbs (4535 kg)
Open Design
› 4500 lbs (2041 kg)

TECHNICAL DATA
<table>
<thead>
<tr>
<th>Model</th>
<th>Max Inlet Pressure</th>
<th>Capacity FGD(^1)</th>
<th>RPM</th>
<th>Number of Stages</th>
<th>Motor</th>
<th>Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSIG mBAR SCFM M^3/HR</td>
<td>HP KW</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

1 Volume flow rate according to ISO 1217. Valid for Air and Nitrogen. Motor power is dependent upon inlet pressure. Contact BAUER for motor power for specific applications. Actual performance value may vary depending on site conditions. 2 Lower inlet pressure can result in lower operating pressure. Contact BAUER for min. / max. operating pressure relative to inlet pressure.
BAUER COMPRESSORS

NITROGEN SOLUTIONS

BAUER COMPRESSORS

NITROGEN STORAGE SYSTEMS

TECHNICAL DATA

Storage Pressure | Nitrogen Volume of 2 cylinder configuration
---|---
5000 PSIG | ASME 843 SCF
| UN/ISO 911 SCF
6000 PSIG | ASME 950 SCF
| UN/ISO 988 SCF

TECHNICAL DATA

Storage Pressure | Nitrogen Volume of 12 cylinder configuration
---|---
5000 PSIG | ASME 5057 SCF
| UN/ISO 5470 SCF
6000 PSIG | ASME 5694 SCF
| UN/ISO 5926 SCF

Storage

For standard storage assemblies, BAUER utilizes a universal welded steel rack (RCK-0037) of our design that safely and securely accommodates two storage cylinders whether of the ASME or the UN variety. For storage system requirements of greater capacity, multiple rack assemblies can be bolted and tubed together. These storage rack assemblies are available in either vertical or horizontal configurations. All storage rack assemblies up to 2 modules deep and 2 modules wide can be shipped completely intertapped, bolted together, and placed horizontally on a single shipping pallet. For larger orders, a tubing and hardware kit for connecting the modules will be shipped loose for on-site assembly. In addition to the standard storage rack assemblies as described above, we are capable of providing engineered solutions to accommodate customer specified storage and racking requirements.

Storage assemblies can be configured in bulk or bank systems depending on the gas distribution system required
BAUER can provide custom regulation/distribution panels for remote installation

Shown with optional SKID for shipboard installation.

Optional nitrogen storage assembly configured for up to twelve (12) high pressure UN/ISO or ASME storage vessels with integrated high-flow pressure regulator.

BAUER N-SERIES 5

Water-Cooled Designed for High-Flow Applications

SYSTEM FOOTPRINT

DIMENSIONS L x W x H inches (mm)
216”-297.6 L x 87.6-99.6” W x 117” H
(5486.4-7543.8 mm x 2225.04-2529.84 mm x 2971.8 mm)

WEIGHT pounds (kg) approx.
18000 - 22700 lbs (8165 - 10297 kg)

TECHNICAL DATA

Model | Max Inlet Pressure | Capacity FGD | RPM | Number of Stages | Motor | Drive
---|---|---|---|---|---|---
GIB26.10 | 29 - 65 | 2 - 4.5 | 184 - 339 | 312 - 576 | 1465 | 4 | 177 - 215 | 132 - 160 | E3
GIB26.12 | 65 - 145 | 4.5 - 10 | 191 - 381 | 324 - 648 | 1465 | 4 | 177 - 132 | E3
GIB52.10 | 29 - 65 | 2 - 4.5 | 371 - 678 | 630 - 1152 | 1485 | 4 | 422 | 315 | E3
GIB52.12 | 65 - 145 | 4.5 - 10 | 381 - 766 | 648 - 1302 | 1485 | 4 | 335 - 422 | 250 - 315 | E3
GIB52.13 | 145 - 217 | 10 - 15 | 551 - 805 | 936 - 1368 | 1485 | 4 | 335 - 442 | 250 - 315 | E3

1 Water flow rate according to ISO 1217. Valid for Air and Nitrogen. Motor power dependent upon inlet pressure. Contact BAUER for motor power for specific application. Actual performance values may vary depending upon site conditions. 2 Lower inlet pressure can result in lower operating pressure. Contact BAUER for min. / max. operating pressure relative to inlet pressure.

NITROGEN STORAGE SYSTEMS

For standard storage assemblies, BAUER utilizes a universal welded steel rack (RCK-0037) of our design that safely and securely accommodates two storage cylinders whether of the ASME or the UN variety. For storage system requirements of greater capacity, multiple rack assemblies can be bolted and tubed together. These storage rack assemblies are available in either vertical or horizontal configurations. All storage rack assemblies up to 2 modules deep and 2 modules wide can be shipped completely intertapped, bolted together, and placed horizontally on a single shipping pallet. For larger orders, a tubing and hardware kit for connecting the modules will be shipped loose for on-site assembly. In addition to the standard storage rack assemblies as described above, we are capable of providing engineered solutions to accommodate customer specified storage and racking requirements.

Storage assemblies can be configured in bulk or bank systems depending on the gas distribution system required
BAUER can provide custom regulation/distribution panels for remote installation

Shown with optional SKID for shipboard installation.

Optional nitrogen storage assembly configured for up to twelve (12) high pressure UN/ISO or ASME storage vessels with integrated high-flow pressure regulator.

TECHNICAL DATA

Storage Pressure | Nitrogen Volume of 2 cylinder configuration
---|---
5000 PSIG | ASME 843 SCF
| UN/ISO 911 SCF
6000 PSIG | ASME 950 SCF
| UN/ISO 988 SCF

TECHNICAL DATA

Storage Pressure | Nitrogen Volume of 12 cylinder configuration
---|---
5000 PSIG | ASME 5057 SCF
| UN/ISO 5470 SCF
6000 PSIG | ASME 5694 SCF
| UN/ISO 5926 SCF

Storage assemblies can be configured in bulk or bank systems depending on the gas distribution system required
BAUER can provide custom regulation/distribution panels for remote installation

Shown with optional SKID for shipboard installation.

Optional nitrogen storage assembly configured for up to twelve (12) high pressure UN/ISO or ASME storage vessels with integrated high-flow pressure regulator.
SPECIALTY NITROGEN SYSTEMS

BAUER MNG II
Mobile on-site Nitrogen Generation System
90-5000 PSIG (6-350 BAR)

SYSTEM FOOTPRINT
DIMENSIONS L X W X H inches (mm)
› 199" L x 90" W x 84" H
WEIGHT pounds (kg)
› 11,000 lbs

STANDARD SCOPE OF SUPPLY
› Self-contained, fully-integrated turnkey mobile nitrogen generation system with high-pressure booster for discharge pressures up to 5,000 PSIG
› Feed air compressor: BAUER Rotocomp®, EVO 3 single-stage air-cooled, oil-injected, continuous-duty rotary screw compressor
› 3-stage membrane pre-filtration system
› High durability membrane air separators
› High-Pressure Booster: BAUER BK12.2 series air-cooled, oil-lubricated high-pressure reciprocating compressor
› Automatic condensate drain port for connection to the customer collection system
› UL® Labeled Control Panel with PLC controller. Includes touchscreen interface (for operation, maintenance and troubleshooting)

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Diesel Engine</th>
<th>Nitrogen Flow at 98% Purity1</th>
<th>Feed Air Pressure Required</th>
<th>Feed Air Capacity Required at 125 PSIG</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SCFM1 M3/HR</td>
<td>SCFM1 M3/HR</td>
<td>SCFM1 M3/HR</td>
<td>SCFM1 M3/HR</td>
</tr>
</tbody>
</table>
| 90-5000 PSIG (6-350 BAR) OUTLET PRESSURE
MNG II | 50 | 37.3 | 16 | 27.2 | 12 | 20.3 | 9 | 15.2 |

1) Capacity (PSIG) is referenced to standard conditions. Tolerance +/- 5%.
2) Purity reflects content of 02-free gas produced.

FEED AIR REQUIREMENTS
› Minimum -40°F (-40°C) Dewpoint
› Less than 10 Microns
› Zero Hydrocarbons (PPM)

SYSTEM FOOTPRINT
DIMENSIONS L X W X H inches (mm)
› 65.75” x 43” x 46.31” (1670 x 1092.2 x 1176.3)
WEIGHT pounds (kg)
› 950 (431)

BAUER SNG® 4S
Stationary Nitrogen Generation System

FEATURES
› All aluminum frame and enclosure
› 316 stainless steel tubing and fittings
› Stainless steel hardware
› Lifting rings and forklift slots for mobility
› Inlet air filtration
› Electric membrane pre-heater

BENEFITS
› Enhanced Safety: On-site generation of nitrogen eliminates the danger in transporting bulk or cryogenic tanks
› Guaranteed Performance: Engineered for reliable operations in all offshore environments
› Innovative Design: Compact footprint provides superior flexibility by minimizing deck space requirements
› Exceptional Reliability and Best-in-class: Quality creates the lowest cost of ownership

TECHNICAL DATA

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<th>Feed Air Pressure Required</th>
<th>Feed Air Capacity Required at 125 PSIG</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNG-4S</td>
<td>SCFM1 M3/HR</td>
<td>SCFM1 M3/HR</td>
<td>SCFM1 M3/HR</td>
<td>SCFM1 M3/HR</td>
</tr>
<tr>
<td>5000 PSIG (345 BAR)</td>
<td>9</td>
<td>15.3</td>
<td>125</td>
<td>9</td>
</tr>
</tbody>
</table>

1) Capacity is referenced to maximum inlet pressure and standard conditions. Tolerance +/- 5%.
2) Purity reflects content of 02-free gas produced. Dimensions and weight are approximate.
BAUER CONNECT®

IOT REMOTE TELEMETRY AND CONTROL

BAUER CONNECT® is an app and internet-based IoT solution which allows BAUER customers to remotely monitor - and control - the performance of the entire BAUER system through any wireless mobile device or computer; anytime, anywhere.

Key Features: allow customers to increase efficiency and productivity, save time, do more with fewer resources, enjoy lower operational costs, and have total flexibility with a solution tailored specifically for the end-user.

BAUER CONNECT® - Connection that matters.

BAUER REMOTE HMI
The BAUER Remote HMI function allows factory-trained technical personnel to remotely control the BAUER system via the BAUER CONNECT® App with the same functionality as if one were standing in front of the actual unit.

MOBILE DASHBOARDS
BAUER CONNECT® App will also display a real-time graphical display of the entire system (SCADA view). The Mobile Dashboard feature provides information such as compressor system status, error log, critical pressures and temperatures, and volume of air dispensed in storage information, etc.

NOTIFICATIONS
The BAUER CONNECT® Mobile App will send push notifications if certain critical parameters of the BAUER system fall outside of normal operating range or if triggered by a system alert. This assures that essential personnel is notified immediately, thus allowing for pro-active intervention in a situation that could potentially be detrimental to the BAUER system as well as the customer’s operation.

BAUER REPORTS
The BAUER Reports feature is a function that generates custom reports tailored to the specific needs of the customer. Customers can have access to historical data via a multitude of standard and customized reports.

BAUER PREDICTIVE ANALYTICS
This feature of BAUER CONNECT® provides a new pro-active dimension to perpetually maintaining customers’ compressor systems at peak conditions with minimum downtime. BAUER’s predictive analytics algorithm uses artificial intelligence to analyze the collected system information on the BAUER Cloud to predict upcoming maintenance requirements and preventative actions to avoid unplanned shutdowns.

bauer-connect.com

TO LEARN MORE VISIT

bauer-connect.com
QUALITY AND RELIABILITY
Our factory-original replacement parts assures you that when maintenance or repair is performed, you are restoring the unit to its original specifications and performance.

COMPATIBILITY
We configure our designs with interchangeability and our end user in mind. You can count on parts being available for all BAUER models. PartsSales@BauerComp.com or 1-(844)-500-5822

SERVICE AND SUPPORT
Our compressors are designed with you in mind. Easy to use manuals guide you through clear, mechanically accessible repairs. Our worldwide distribution network was developed to assist in after-sales support, along with product and maintenance parts assistance.

TRAINING TOPICS
Basic mechanical theory, control system theory (electric and pneumatic) along with troubleshooting for all BAUER systems.

TRAINING
BAUER Compressors Inc. offers a variety of on site & off site Training Schools. Our on site classes are held at our BAUER Training Facility and are taught by the same people that help manufacture, test and service our products. From electrical systems to hands-on break downs, we cover all areas of compressor operation.

GLOBAL SERVICE
FROM THE SOURCE
BAUER Compressors Inc., is certified with ISO 9001:2015 quality processes providing you with confidence that cannot be duplicated by sub-standard after-market parts and service.

PARTS
PLUS, OVER 10,000 OEM PARTS

TRAINING
ON SITE/OFF SITE TRAINING
FACTORY TRAINED TECHS

TRAINING
BAUER Helpdesk
24-7 PHONE TECH SUPPORT
LIFECYCLE PERFORMANCE

MECHANICAL & ELECTRICAL
Total customer satisfaction is our top priority. BAUER provides 24-7 phone tech and troubleshooting support at our BAUER Helpdesk. Our support continues throughout our warranty period and beyond.

For BAUER Helpdesk please email: CustomerService@BauerComp.com or call at: 1-(844)-500-5822