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THE CASE FOR BIOGAS

METHANE EMISSIONS

80x MORE DAMAGING TO THE ATMOSPHERE THAN CARBON DIOXIDE

THE PROBLEM

Decomposing organic material releases methane into the atmosphere. Methane is a short-lived climate pollutant with an atmospheric lifetime of around 12 years. While its lifetime is much shorter than carbon dioxide (CO₂), it is much more efficient at trapping radiation, which makes the impact of methane on climate change over 80 times greater than CO₂ (Environmental Defense Fund, 2021).

Globally, over 60% of total methane emissions come from human activities. Agriculture is a key emitting sector, responsible for about 30%, and is the number one source of methane emissions in the U.S. (N.O.A.A., 2020)

Top three super-emitters contributing to 93% of methane emissions to be:

- Oil and Gas Industry ................. 41%
- Waste Management .................. 26%
- Agricultural Sources ................. 26%
- Other ...................................... 1%

THE PRESSURES

Due to methane’s high greenhouse gas (GHG) impact but low human-based emission source, in comparison to CO₂, it has become the main focus of government regulation across the globe. In the U.S., the pressure on the government and private sector regulations of methane emissions has come to the forefront in the social efforts to fight climate change. According to the E.P.A., regulations, once finalized, will reduce 41 million tons of methane emissions from 2023 to 2035, the equivalent of 920 million metric tons of carbon dioxide.

THE SOLUTION

Technology has evolved, which makes capturing and processing biogas from anaerobic fermentation more economically viable. Methane emitted from decomposing waste when captured and upgraded on-site into renewable natural gas (RNG) is a valuable energy source that is significantly more environmentally friendly than diesel fuel, gasoline, or coal. RNG can be injected into a natural gas pipeline in exchange for revenue from the local utility, compressed for fleet fuel instead of diesel, or used as fuel to generate electricity (power co-generation). Also, the producers of RNG can be eligible for significant tax credits through their respective states.

4 SOURCES OF METHANE EMISSIONS FROM ANAEROBIC DECOMPOSITION

- Methane Gas Emissions from Landfills
- Methane Gas Emissions from Dairy and Animal Waste
- Methane Gas Emissions from Waste Treatment Plants
- Organic Food Waste
DON’T LET YOUR PROFIT GO TO WASTE

COMPLETE SOLUTIONS
For On-Site Biogas Recovery and Upgrading

Generating RNG from landfills, dairies, and wastewater facilities through anaerobic decomposition not only eliminates methane emissions into the atmosphere, but can also be a source of additional revenue for the operator by:

› Selling the gas to a utility through pipeline injection
› Offsetting costs associated with purchasing fuel for vehicles by producing their own fuel (compressed natural gas, or CNG)
› Producing their own electricity through cogeneration

BAUER is known globally for its expertise in manufacturing gas compression systems. To provide our customers with a complete turnkey solution for upgrading, BAUER has partnered with highly experienced companies which are specialized in various aspects of biogas generating RNG.

BAUER COMPRESSORS Solutions include:

› Biogas Feed Compression
› Pipeline injection Compression
› Virtual Pipeline/CNG Station Compression

BAUER GRU HP® Gas Booster and Odorizer for Pipeline Injection
BAUER GRU® Biogas Recovery Compressor
BAUER M-SERIES High Pressure CNG Compressor
Gas Turbine Electrical Power Generator
Unprocessed Biogas From Source (Landfill, Digester)
Blower
Biogas Upgrading System
H2S/VOC Removal
Condensate Gas Dryer
RELIABLE SUPPORT IN BIOGAS SYSTEMS

75 YEARS OF EXPERIENCE IN GAS COMPRESSION AND PROCESSING

For the past 75 years, BAUER has been the global market leader in low- and high-pressure compressor systems for a wide variety of applications. BAUER compressors are known around the world for their extreme durability and reliability. All BAUER compressors are backed by BAUER’s unmatched 2-year comprehensive warranty, as well as a lifetime support guarantee. Combined with BAUER’s global reach (35 offices in 20 countries, and over 600 distributors worldwide), no one in the industry can match BAUER’s dedication to supporting our customers. BAUER not only makes the most reliable and durable compressor in the world, but BAUER also designs and manufactures the entire compression solution in-house. Most other compressor manufacturers rely on outside packagers to provide the end-user compression solution. At BAUER, we manufacture both the compressor and complete compression system, which allows us to take full responsibility for every step of the process. BAUER also has extensive experience in providing compression solutions for specifically biogas applications. To date, we have completed over 150 compressor installations in biogas upgrading, and over 2,000 successful installations in CNG applications.

BAUER is a proud member of the Renewable Natural Gas Coalition (RNG Coalition), BiogasWorld, and the American Biogas Council (ABC).

Biogas upgrading facilities require compression systems for the following processes:

› Compressors for Feeding Biogas Upgrading Systems
› Compressors for Compression of Gas into the Utility Grid (Pipeline Injection)
› Compressors for Feeding Gas Turbine Generators
› Compressors for High Pressure CNG Systems

RELIABLE PARTNERS FOR BIOGAS UPGRADING SYSTEMS

Compression is only one part of biogas generation. BAUER can draw on over 25 years of experience in the biogas industry to advise customers on the best biogas upgrading technology for specific applications. BAUER works with a number of leading technology providers who are capable of providing turnkey biogas upgrading solutions.

› ENGINEERING, PROCUREMENT CONSTRUCTION
BAUER has worked with reputable EPC companies and licensed biogas contractors to help provide a complete turnkey solution for the entire biogas processing plant, from feasibility, to concept, to engineering, and then to procurement, including turnkey construction and complete project execution.

› BIOGAS UPGRADING SYSTEMS
Biogas produced in a digester or coming from a landfill contains excess moisture, VOC’s, as well as high amounts of CO₂ (up to 35%). The biogas upgrading process involves removing these undesirable elements in order to produce biomethane which consists of 97% pure methane. In simple terms, a typical biogas upgrading system consists of a condensate dehydration system to remove excess moisture, an activated carbon system to strip out VOC’s and a hollow fiber membrane system to separate the CO₂ from the methane. BAUER has strategic alliances with the leading biogas upgraders in the industry and as such can make technical partner recommendations to the end user based on the size and technical scope of the project.

› POWER GENERATION SOLUTIONS
To help biogas plant operators maximize their profits by fully utilizing the potential of their compressed gas, BAUER alliances with technology providers for on-site for power generation. These include natural gas engine power generators as well as gas turbine power generators.
The BAUER GRU® Biogas Compressor range has been specifically designed for feeding biogas upgrading systems. The function of the biogas feed compressor is to elevate the pressure of the incoming biogas, from 1-7 PSIG to 90-230 PSIG, which is the operating pressure required for most PSA/membrane type gas upgrading systems. BAUER offers a complete GRU system size range from 5 to 350 hp (3.7 to 260 kW). At the heart of every GRU compressor system is the legendary BAUER Rotorcomp® rotary screw compressor, world-renowned for exceptional durability and reliability. The sophisticated control system in the GRU senses pressure upstream of the unit, and automatically adjusts compressor speed to modulate output based on the availability of biogas from the source (landfill or digester). If there is an insufficient amount of gas available upstream for compression, the system automatically goes into standby mode, for instantaneous compression capability when upstream gas pressure suddenly increases. This significantly reduces the occurrences of venting gas into the atmosphere, because the compressor is ready to operate instantaneously (compared to ramping up through normal start-up sequences after being completely shut down).

**AVAILABLE OPTIONS**
- Gas inlet particulate filter
- Gas aftercooler (air-cooled)
- Sound attenuation
- Heat recovery
- Cold weather package
- 575 Volt drive equipment for Canada
- Air cooled oil cooler w/ TEFC motor and controlled by VFD for efficient oil temperature control
- Stainless Steel Oil / Gas separator w/ Pressure Safety Valve
- Gas inlet connection (flanged)
- Optional inlet particulate filter
- BAUER EVO® GAS ROTARY SCREW COMPRESSOR
- TEFC ELECTRIC MOTOR
- HMI/PLC CONTROL PANEL (NEMA4)
- Oil/GAS SEPARATOR
- AIR COOLED OIL COOLER
- GAS OUTLET CONNECTION (FLANGED)
- HEAVY DUTY SKID WITH INTEGRATED FORKLIFT POCKETS AND LIFTING RINGS
- ELECTRIC JUNCTION BOX TO ENABLE CONNECTION TO REMOTE MOUNTED VARIABLE FREQUENCY MOTOR CONTROLLER

**STANDARD SCOPE OF SUPPLY**
- Heavy-duty rotary screw compressor manufactured by BAUER’s ROTOCOMP® division at the heart of the system
- Variable speed control of compressor to modulate the flow of biogas based on the incoming supply of gas (VF drive located remote from skid as defined by Class 1, Div 2 code requirements per NEC NFPA 70, Article 500)
- Heavy-duty TEFC electric motor
- Stainless steel construction of piping and major P&ID components
- PLC control of all major system components with on board HMI
- BAUER CONNECT® remote telemetry IoT with Modbus TCP/IP or Profinet connection capability
- Fully integrated system built on a heavy-duty steel skid, designed for plug and play installation
- Pressure Sensors, Temperature Transmitters, Gauges and Valves
- Hazardous Area Classification: Class 1, Div 2 as defined per NEC, NFPA70
- Pressure Vessel Code Compliance: ASME
- Electrical Code Compliance: UL/Control panels and assemblies
- Certified manufacturing organization: ISO 9001-2015
- UL 508A, Standard for Industrial Control Panels
- UL 698A, Standard for Industrial Control Panels Relating to Hazardous (Classified) Locations
- NFPA, Vehicular Natural Gas Fuel Systems Code
- NFPA 70 National Electric Code
- NFPA 497, Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas
- ASME B31.3, Process Piping

**THE MOST COMPREHENSIVE SIZE AND PERFORMANCE RANGE IN THE INDUSTRY**
BAUER offers many sizes and models of pre-engineered biogas compressors ranging from 15 to 350 hp (11 to 260 kW) This allows BAUER to size the compressor system specific to the performance needs of each project
- Inlet pressure range: 0.1 to 35 PSIG (0.007 to 2.41 BARG)
- Horsepower range: 5 to 350 hp (3.7 to 260 kW)
- Biogas Flow Rate: 10 to 2193 scfm (17 to 3725 Nm³/hr)
- Final Pressure: 100 to 232 PSIG (6.9 to 16 BARG)
**BAUER GRU® 3 BIOGAS FEED COMPRESSOR SYSTEM**  
Compact Design For Low Flow Applications  
› 15 to 25 hp (11 to 18.5 kW)  
› 20 to 104 scfm (34 to 176 Nm³/hr)  
› 232 PSIG (16 BAR) maximum discharge pressure  

**BAUER GRU® 6 BIOGAS FEED COMPRESSOR SYSTEM**  
Compact Design For Low To Medium Flow Applications  
› 30 to 50 hp (22 to 37 kW)  
› 31 to 218 scfm (53 to 371 Nm³/hr)  
› 232 PSIG (16 BAR) maximum discharge pressure  

**SYSTEM FOOTPRINT**  
› 51" W X 64" L X 85" H (1295.4mm W X 1625.6mm X2159mm H)  

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Motor</th>
<th>Suction Pressure</th>
<th>Max Flow at 150 PSI</th>
<th>Max Flow at 232 PSI</th>
<th>Discharge Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>KW</td>
<td>PSIG</td>
<td>BAR</td>
<td>SCFM</td>
</tr>
<tr>
<td>GRU® 3 (15hp/11kw)</td>
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<td>15</td>
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<td></td>
<td>20</td>
<td>15</td>
<td>0.7</td>
<td>78</td>
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<td>GRU® 3 (25hp/18.5kw)</td>
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<td>18.5</td>
<td>1.0</td>
<td>0.069</td>
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<tr>
<td></td>
<td>25</td>
<td>18.5</td>
<td>0.34</td>
<td>80</td>
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**BAUER GRU® 3 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS**

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Motor</th>
<th>Suction Pressure</th>
<th>Max Flow at 150 PSI</th>
<th>Max Flow at 232 PSI</th>
<th>Discharge Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>KW</td>
<td>PSIG</td>
<td>BAR</td>
<td>SCFM</td>
</tr>
<tr>
<td>GRU® 6 (30hp/22kw)</td>
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<td>22</td>
<td>1.0</td>
<td>0.069</td>
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<td></td>
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<td>0.34</td>
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<td>30</td>
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<td>112</td>
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<tr>
<td>GRU® 6 (40hp/30kw)</td>
<td>40</td>
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<td>0.069</td>
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<td></td>
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<td>40</td>
<td>30</td>
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<td>GRU® 6 (50hp/37kw)</td>
<td>50</td>
<td>37</td>
<td>1.0</td>
<td>0.069</td>
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<td></td>
<td>50</td>
<td>37</td>
<td>0.34</td>
<td>186</td>
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<tr>
<td></td>
<td>50</td>
<td>37</td>
<td>0.7</td>
<td>218</td>
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</table>

All performance values referenced in the table above are based on the following conditions: Referenced to ISO 1217 (14.50 psi (100 kPA), 68°F (20°C), 0% RH), Biogas temperature at compressor inlet: 86°F (30°C), Biogas Composition: 52% CH₄, 46% CO₂, 1% N₂, 1% O₂. Discharge pressure at compressor skid edge. Any deviations from these conditions will modify the stated performance results. Consult with your BAUER representative for conditions other than referenced herein.
**BAUER GRU® 9 BIOGAS FEED COMPRESSOR SYSTEM**

Compact Design For Low To Medium Flow Applications

- 60 to 75 hp (45 to 55 kW)
- 61 to 328 scfm (104 to 557 Nm³/hr)
- 232 PSIG (16 BARG) maximum discharge pressure

**SYSTEM FOOTPRINT**

- 55” W X 97” L X 85” H (1397mm W X 2463.8mm L X 2159mm H)

**BAUER GRU® 9**

Available with optional enclosure

---

**TECHNICAL DATA**

**BAUER GRU® 9 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS**

<table>
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<tr>
<th>Motor</th>
<th>Suction Pressure</th>
<th>Max Flow at 150 PSIG Discharge Pressure</th>
<th>Max Flow at 232 PSIG Discharge Pressure</th>
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<tbody>
<tr>
<td>HP 60</td>
<td>KM 45</td>
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<td>SCFM 194</td>
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<td>KM 5</td>
<td>PSIG 0.7</td>
<td>SCFM 264</td>
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<td>HP 75</td>
<td>KM 75</td>
<td>PSIG 1.0</td>
<td>SCFM 238</td>
</tr>
<tr>
<td></td>
<td>KM 5</td>
<td>PSIG 0.7</td>
<td>SCFM 284</td>
</tr>
</tbody>
</table>

**BAUER GRU® 15 BIOGAS FEED COMPRESSOR SYSTEM**

Designed For Medium To High Flow Applications

- 100 to 125 hp (75 to 90 kW)
- 144 to 537 scfm (245 to 997 Nm³/hr)
- 232 PSIG (16 BARG) maximum discharge pressure

**SYSTEM FOOTPRINT**

- 100” W X 130” L X 117” H (2540mm W X 3886mm L X 2971mm H)

**BAUER GRU® 15**

Available with optional enclosure

---

**BAUER GRU® 15 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS**

<table>
<thead>
<tr>
<th>Motor</th>
<th>Suction Pressure</th>
<th>Max Flow at 150 PSIG Discharge Pressure</th>
<th>Max Flow at 232 PSIG Discharge Pressure</th>
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<tbody>
<tr>
<td>HP 100</td>
<td>KM 75</td>
<td>PSIG 1.0</td>
<td>SCFM 337</td>
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<td>KM 5</td>
<td>PSIG 0.7</td>
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<td>KM 10</td>
<td>PSIG 0.7</td>
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<td>HP 125</td>
<td>KM 90</td>
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<td>SCFM 419</td>
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<td>KM 5</td>
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<td></td>
<td>KM 10</td>
<td>PSIG 0.7</td>
<td>SCFM 587</td>
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**TECHNICAL DATA**

**BAUER GRU® 15 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS**

<table>
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<th>Motor</th>
<th>Suction Pressure</th>
<th>Max Flow at 150 PSIG Discharge Pressure</th>
<th>Max Flow at 232 PSIG Discharge Pressure</th>
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<tbody>
<tr>
<td>HP 15</td>
<td>KM 75</td>
<td>PSIG 1.0</td>
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<td>PSIG 0.7</td>
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<td>KM 90</td>
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All performance values referenced in the table above are based on the following conditions: Referenced to ISO 1217 (14.50 psi (100 kPA), 68°F (20°C), 0% RH), Biogas temperature at compressor inlet: 86°F (30°C). Biogas Composition: 52% CH₄, 46% CO₂, 1% N₂, 1% O₂. Discharge pressure at compressor skid edge. Any deviations from these conditions will modify the stated performance results. Consult with your BAUER representative for conditions other than referenced herein.
All performance values referenced in the table above are based on the following conditions: Referenced to ISO 1217 (14.50 psi (100 kPa), 68°F (20°C), 0% RH), Biogas temperature at compressor inlet: 86°F (30°C). Biogas Composition: 52% CH₄, 46% CO₂, 1% N₂, 1% O₂. Discharge pressure at compressor skid edge. Any deviations from these conditions will modify the stated performance results. Consult with your BAUER representative for conditions other than referenced herein.

### TECHNICAL DATA

#### BAUER GRU® 28 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

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<th>HP</th>
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<th>BAR</th>
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<th>M³/H</th>
<th>SCFM</th>
<th>M³/H</th>
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<td>507</td>
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#### BAUER GRU® 42 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

<table>
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<th>HP</th>
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<th>SCFM</th>
<th>M³/H</th>
<th>SCFM</th>
<th>M³/H</th>
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<td>1348</td>
<td>2290</td>
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<td>2265</td>
</tr>
</tbody>
</table>

### SYSTEM FOOTPRINT

- **BAUER GRU® 28**: Available with optional enclosure
- **BAUER GRU® 42**: Approximate dimensions

### TECHNICAL DATA

#### BAUER GRU® 28 BIOGAS FEED COMPRESSOR SYSTEM
- Designed For High Flow Applications
- 150 to 250 hp (110 to 185 kW)
- 219 to 1096 scfm (372 to 1,863 Nm³/hr)
- 232 PSIG (16 BARG) maximum discharge pressure

#### SYSTEM FOOTPRINT
- 100” W X 130” L X 117” H (2540mm W X 3886mm L X 2971mm H)

#### TECHNICAL DATA

#### BAUER GRU® 42 BIOGAS FEED COMPRESSOR SYSTEM
- Designed For High Flow Applications
- 300 to 350 hp (220 to 260 kW)
- 469 to 1608 scfm (796 to 2,732 Nm³/hr)
- 232 PSIG (16 BARG) maximum discharge pressure

#### SYSTEM FOOTPRINT
- 96” W X 240” L X 102” H (2438mm W X 6096mm L X 2591mm H)

All performance values referenced in the table above are based on the following conditions: Referenced to ISO 1217 (14.50 psi (100 kPa), 68°F (20°C), 0% RH), Biogas temperature at compressor inlet: 86°F (30°C). Biogas Composition: 52% CH₄, 46% CO₂, 1% N₂, 1% O₂. Discharge pressure at compressor skid edge. Any deviations from these conditions will modify the stated performance results. Consult with your BAUER representative for conditions other than referenced herein.
BAUER GRU® DUPLEX BIOGAS FEED COMPRESSOR SYSTEM

Designed For High Flow Applications Where Redundancy and/or >50% Turndown is Required

5 Different HP Size Ranges

- 200-500 hp (150-370 kW) (100-250 hp (75-185 kW) per compressor)
- 144-2193 scfm (245 - 3725 m³/hr)
- 75% turn-down capability to 25% of max
- Built-in redundancy

The BAUER GRU® DUPLEX biogas compressor is designed for larger flow applications where extreme turn-down and redundancy is required.

SYSTEM FOOTPRINT

- 216.5” L x 96.5” W x 154.3” H (5499mm W X 2451mm L X 3919mm H)
  (w/ enclosure and vent stacks)
- 216.5” L x 96.5” W x 96.1” H (5499mm W X 2451mm L X 2441mm H)
  (w/out enclosure and vent stacks)

TECHNICAL DATA

BAUER GRU® DUPLEX PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

<table>
<thead>
<tr>
<th>HP</th>
<th>KW</th>
<th>Suction Pressure</th>
<th>Max Flow at 150 PSIG Discharge Pressure</th>
<th>Max Flow at 232 PSIG Discharge Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRU Duplex (100hp/75 kW x2)</td>
<td>100 (x2)</td>
<td>75 (x2)</td>
<td>1.0</td>
<td>0.069</td>
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<td></td>
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<td>75 (x2)</td>
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<td></td>
<td>100 (x2)</td>
<td>75 (x2)</td>
<td>10</td>
<td>0.7</td>
</tr>
<tr>
<td>GRU Duplex (125hp/75 kW x2)</td>
<td>125 (x2)</td>
<td>90 (x2)</td>
<td>1.0</td>
<td>0.34</td>
</tr>
<tr>
<td></td>
<td>125 (x2)</td>
<td>90 (x2)</td>
<td>5</td>
<td>0.34</td>
</tr>
<tr>
<td></td>
<td>125 (x2)</td>
<td>90 (x2)</td>
<td>10</td>
<td>0.7</td>
</tr>
<tr>
<td>GRU Duplex (150hp/110 kW x2)</td>
<td>150 (x2)</td>
<td>110 (x2)</td>
<td>1.0</td>
<td>0.34</td>
</tr>
<tr>
<td></td>
<td>150 (x2)</td>
<td>110 (x2)</td>
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<td>150 (x2)</td>
<td>110 (x2)</td>
<td>10</td>
<td>0.7</td>
</tr>
<tr>
<td>GRU Duplex (200hp/150 kW x2)</td>
<td>200 (x2)</td>
<td>150 (x2)</td>
<td>1.0</td>
<td>0.34</td>
</tr>
<tr>
<td></td>
<td>200 (x2)</td>
<td>150 (x2)</td>
<td>5</td>
<td>0.34</td>
</tr>
<tr>
<td></td>
<td>200 (x2)</td>
<td>150 (x2)</td>
<td>10</td>
<td>0.7</td>
</tr>
<tr>
<td>GRU Duplex (250hp/185 kW x2)</td>
<td>250 (x2)</td>
<td>185 (x2)</td>
<td>1.0</td>
<td>0.34</td>
</tr>
<tr>
<td></td>
<td>250 (x2)</td>
<td>185 (x2)</td>
<td>5</td>
<td>0.34</td>
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<td>250 (x2)</td>
<td>185 (x2)</td>
<td>10</td>
<td>0.7</td>
</tr>
</tbody>
</table>

All performance values referenced in the table above are based on the following conditions: Referenced to ISO 1217 (14.50 psi (100 kPA), 68°F (20°C), 0% RH), Biogas temperature at compressor inlet: 86°F (30°C). Biogas Composition: 52% CH4, 46% CO2, 1% N2, 1% O2. Discharge pressure at compressor inlet edge: 235 psig. Any deviations from these conditions will modify the stated performance results. Consult with your Bauer representative for conditions other than referenced herein.
BAUER GRU®
XL DUPLEX BIOGAS
CONTAINERIZED BIOGAS FEED COMPRESSOR SYSTEM

Designed For High-Flow Applications Where Redundancy and/or >50% Turndown is Required

5 Different HP Size Ranges
› 250-500 HP (150-370 kW)
› 500-1600 SCFM (850-2790 m³/hr)
› 75% TURN-DOWN CAPABILITY TO 25% OF MAX
› BUILT-IN REDUNDANCY

SYSTEM FOOTPRINT
› 40' L x 8' W x 9.5' H (12,192mm x 2,438mm X2,896mm)

BAUER COMPRESSORS
Designed For High-Flow Applications Where Redundancy and/or >50% Turndown is Required

5 Different HP Size Ranges
› 250-500 HP (150-370 kW)
› 500-1600 SCFM (850-2790 m³/hr)
› 75% TURN-DOWN CAPABILITY TO 25% OF MAX
› BUILT-IN REDUNDANCY

BAUER GRU® Duplex Flow Performance Table at 230 PSIG (16 BARG) Final Pressure

<table>
<thead>
<tr>
<th>Compressor Model</th>
<th>Motor</th>
<th>0 PSIG/0 BAR</th>
<th>7 PSIG/0.5 BAR</th>
<th>10 PSIG/0.7 BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HP</td>
<td>SCFM LOW</td>
<td>M³/Hr LOW</td>
<td>SCFM MEDIUM</td>
</tr>
<tr>
<td>GRU 15-100 Duplex</td>
<td>100 x2</td>
<td>154 498</td>
<td>262 866</td>
<td>228 666</td>
</tr>
<tr>
<td>GRU 15-125 Duplex</td>
<td>125 x2</td>
<td>164 610</td>
<td>262 1036</td>
<td>228 826</td>
</tr>
<tr>
<td>GRU 28-150 Duplex</td>
<td>150 x2</td>
<td>228 710</td>
<td>387 1206</td>
<td>340 1016</td>
</tr>
<tr>
<td>GRU 28-200 Duplex</td>
<td>200 x2</td>
<td>354 1024</td>
<td>601 1740</td>
<td>528 1380</td>
</tr>
<tr>
<td>GRU 28-250 Duplex</td>
<td>250 x2</td>
<td>354 1110</td>
<td>601 1886</td>
<td>528 1498</td>
</tr>
</tbody>
</table>

All performance values referenced in the table above are based on the following conditions: Referenced to ISO 1217 (14.50 psi (100 kPA), 68°F (20°C), 0% RH), Biogas temperature at compressor inlet: 66°F (19°C), Biogas Composition: 52% CH₄, 46% CO₂, 1% N₂, 1% O₂, Discharge pressure at compressor skid edge: 230 psig (16 bar). Any deviations from these conditions will modify the stated performance results. Consult with your Bauer representative for conditions other than referenced herein.

**BAUER GRU® XL DUPLEX BIOGAS CONTAINERIZED BIOGAS FEED COMPRESSOR SYSTEM**

**PLUG AND PLAY ALL ONBOARD TURNKEY SYSTEM**

Including: Electrical components (VFD) and optional gas aftercooler, heat recovery, and hot start system.

*In accordance with NFPA/NEC CLASS I, DIV II hazardous location classification.
The BAUER GRU® MB5 Gas Booster utilizes rotary screw compressor technology and has been specifically designed for biomethane injection into the pipeline grid for applications where higher pressures (up to 1100 PSIG) are required. The BAUER GRU® MB5 rotary screw booster is also suitable for large gas turbine power generators that require higher gas inlet injection pressures.

All BAUER GRU® Booster units are equipped with variable frequency speed control which allows the compressor to adjust to the incoming flow of gas. Utilizing a rotary screw booster compressor is advantageous over reciprocating piston compressors due to the higher reliability and lower cost of ownership of rotary screw compressors especially in continuous duty applications.

**BROAD PERFORMANCE RANGE**

The BAUER GRU® MB5 is the perfect match-up to the GRU biogas recovery compressor system since the GRU MB5 utilizes the outlet pressure generated by GRU Biogas Recovery Compressor to boost the pressure of the biogas up to pipeline pressure or pressure required by the gas turbine generator system.

- Inlet pressure range: 73 - 363 PSIG (5 - 25 BAR)
- Horsepower range: 50-350 HP (37-260 kW)
- Biogas Flow Rate: 321 - 2300 SCFM (545.4 - 3907.6 nm³/hr)
- Final pressure: 300-1100 PSIG (21 - 76 BAR)

**STANDARD SCOPE OF SUPPLY**

- Heavy-duty rotary screw booster compressor at the heart of the system
- Variable speed control of compressor to modulate the flow of biogas based on the incoming supply of gas (VFD drive located remote from skid as defined by Class 1, Div 2 code requirements per NEC NFPA 70)
- Heavy-duty TEFC electric motor
- Stainless steel construction of piping and major P&ID components
- PLC control of all major system components
- BAUER CONNECT® remote telemetry IoT with Modbus TCP/IP or Profinet connection capability
- Fully integrated system built on a heavy-duty steel skid designed for plug and play installation

**CODES AND STANDARDS**

- Hazardous area classification: NFPA 52 / 70, Class 1, Division 2
- Pressure vessel code compliance: ASME
- Electrical code compliance: NEC , UL/control panels and assemblies
- Certified manufacturing organization: ISO 9001-2015

**AVAILABLE OPTIONS**

- Gas inlet particulate filter
- Gas after-cooler (air-cooled)
- Shell and tube heat exchanger for heat regeneration
- Heavy-duty weatherproof enclosure
- Sound attenuation

**TECHNICAL DATA**

**FOR GAS BOOSTING APPLICATIONS AT ELEVATED SUCTION PRESSURE AND FINAL PressURES UP TO 600 PSIG (ROTARY SCREW COMPRESSOR BOOSTER)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor</th>
<th>HP</th>
<th>KW</th>
<th>Compressor Model</th>
<th>Suction Pressure</th>
<th>Max Final Pressure</th>
<th>SCFM</th>
<th>M³/HR</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRUMB5-50</td>
<td>50</td>
<td>37</td>
<td>MB5</td>
<td>73</td>
<td>5</td>
<td>300</td>
<td>20</td>
<td>321</td>
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<tr>
<td>GRUMB5-200</td>
<td>200</td>
<td>150</td>
<td>MB5</td>
<td>174</td>
<td>12</td>
<td>435</td>
<td>30</td>
<td>2052</td>
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<tr>
<td>GRUMB5-300</td>
<td>300</td>
<td>220</td>
<td>MB5</td>
<td>247</td>
<td>17</td>
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<td>GRUMB5-350</td>
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<td>260</td>
<td>MB5</td>
<td>363</td>
<td>25</td>
<td>1088</td>
<td>75</td>
<td>2322</td>
</tr>
</tbody>
</table>

Note: 1) All performance data for compressed gas inlet (suction condition) is stated at Standard Conditions: Suction Pressure as Indicated, Gas Temperature of 68°F (20°C) and RH of 0%. 2) All performance data for compressed gas outlet is stated at ISO 1217 Reference Conditions: Absolute Pressure at 364 ft (111m) elevation = 14.5 PSIG (1 Bar). Gas Temperature of 68°F (20°C) and RH of 0%. 3) All performance data are based on a typical well gas composition based on the following Mol percentages: Methane 97%, Nitrogen 1.0%, Carbon Dioxide 2%. 4) All BAUER GRU® systems are built to Class 1, Div 2 NFPA standard.
BAUER offers a full line of reciprocating piston compressor systems that are capable of compressing biomethane up to 5000 PSIG final pressure which is the pressure required for use in CNG vehicles. At the heart of every BAUER, CNG compressor system is the highly reliable BAUER reciprocating compressor which is designed and manufactured by BAUER. BAUER has been producing CNG systems for over 35 years and is considered the golden standard in the CNG Industry. BAUER CNG systems are world-renowned for exceptional durability and reliability which translates into the lowest cost of ownership for the operator. Furthermore, BAUER compressors' negligible oil carry-over compared to other reciprocating compressors in the industry protects today's highly sophisticated but sensitive CNG vehicle engines from costly breakdowns.

**STANDARD SCOPE OF SUPPLY**
- BAUER’s heavy-duty reciprocating booster compressor at the heart of the system
- PLC control of all major system components (Control systems equipped with VF drive are located remote from skid as intended by Class 1, Division 2 requirements per NEC, NFPA 10)
- Heavy-duty TEFC electric motor
- Stainless steel construction of piping and major P&ID components
- Gas after-cooler
- Automatic condensate drain system
- BAUER CONNECT® remote telemetry IOT with Modbus TCP/IP or Profinet connection capability
- Fully integrated system built on a heavy-duty steel skid designed for plug and play installation

**OPTIONAL FEATURES**
- Heavy-duty weatherproof enclosure
- Sound attenuation
- Passivation of piping
- Ultrasonic testing of piping welds
- Hydro testing of piping and relevant components
- Special certifications and documentation
- CE electrical code, CRN pressure vessel code

**CODES AND STANDARDS**
- Hazardous area classification: NFPA 52 / 70, Class 1, Division 2
- Pressure vessel code compliance: ASME
- Electrical code compliance: NEC / UL
- Certified manufacturing organization: ISO 9001-2015

**RANGE AND FLEXIBILITY FOR ANY SIZE FLEET**
BAUER offers a full line of CNG compressor systems to fit any size fleet. The BAUER CNG compressor system is the perfect match-up to the GRU Biogas Compressor system because the BAUER CNG booster compressors can utilize the outlet pressure generated by GRU Biogas Compressor to boost the pressure of the cleaned and conditioned biogas up to 5000 PSIG which is required for CNG vehicle use.

- Inlet pressure range: 5 - 230 PSIG (0.35 - 15.8 BAR)
- Horsepower range: 5 - 350 HP (3.7 - 260 kW)
- Biogas Flow Rate: 6.3 - 875 SCFM (37 - 1487 m³/hr)
- Final Pressure: 5000 PSIG (345 BAR)

**INLET BUFFER/VAPOR RECOVERY TANKS**
- Shell and tube heat exchangers
- High efficiency TEFC motor
- NEMA 4 control panel with integrated HMI
- Inlet buffer/vapor recovery tanks
- Compressor compartment exhaust fan (x2)
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model*</th>
<th>Inlet Pressure</th>
<th>Final Pressure</th>
<th>Capacity</th>
<th>Number of Stages</th>
<th>Running Speed</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MIN</td>
<td>MAX</td>
<td>MIN</td>
<td>MAX</td>
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<tr>
<td></td>
<td>PSIG</td>
<td>BAR</td>
<td>PSIG</td>
<td>BAR</td>
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<td>C120-6</td>
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<td>345 BAR</td>
<td>22</td>
<td>37</td>
<td>9</td>
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<tr>
<td></td>
<td>5000 PSIG</td>
<td>345 BAR</td>
<td>27</td>
<td>46</td>
<td>12</td>
<td>14</td>
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</tbody>
</table>

Note: All capacities are referenced to maximum inlet pressure. Capacity is reduced if inlet pressure is less than maximum. Performance tolerance +/- 5%. Please contact your BAUER representative for details about our warranty. (+/- 5% dB)

### SYSTEM FOOTPRINT

**BAUER MICRO SERIES® C120**

- Available with optional enclosure
- 55” x 57” x 52” (1397mm x 1448mm x 1321mm)

**BAUER COMPACT SERIES® C15/22**

- Available with optional enclosure
- 97” x 58” x 85” (2464mm x 1473mm x 2159mm)

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### TECHNICAL DATA (FOR DUPLEX: THE INLET & FINAL PRESSURES ARE THE SAME. CAPACITY & HP x2 )

<table>
<thead>
<tr>
<th>Model*</th>
<th>Inlet Pressure</th>
<th>Final Pressure</th>
<th>Capacity</th>
<th>Number of Stages</th>
<th>Running Speed</th>
<th>Motor</th>
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<tbody>
<tr>
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<tr>
<td></td>
<td>PSIG</td>
<td>BAR</td>
<td>PSIG</td>
<td>BAR</td>
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<td>345</td>
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<tr>
<td></td>
<td>5000 PSIG</td>
<td>345 BAR</td>
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<td>37</td>
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<td>11</td>
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<td>345 BAR</td>
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<td>C22.0 Simplex</td>
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<td>0.07</td>
<td>0.34</td>
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<tr>
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<td>5000 PSIG</td>
<td>345 BAR</td>
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</table>

Note: All capacities are referenced to maximum inlet pressure. Capacity is reduced if inlet pressure is less than maximum. Performance tolerance +/- 5%. Please contact your BAUER representative for details about our warranty.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Pressure</th>
<th>Final Pressure</th>
<th>Capacity</th>
<th>Number of Stages</th>
<th>Running Speed</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSIG</td>
<td>BAR</td>
<td>PSIG</td>
<td>BAR</td>
<td>CFM</td>
<td>m³/h</td>
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<td>C23.10</td>
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<td>5000</td>
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<td>200</td>
<td>12</td>
<td>14</td>
<td>5000</td>
<td>345</td>
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</table>

Note: All capacities are based on pipeline quality natural gas supplied at the maximum allowable inlet pressure to the compressor and 3600 psig discharge pressure. For all models lower inlet pressure is possible but with reduced capacity and possibly reduced discharge pressure. Motor power is referenced to maximum allowable inlet pressure and 4500 psig discharge pressure. Consult BAUER for performance at other conditions. Performance tolerance +/- 5%. 1) + or - 5% dB. Please contact your BAUER representative for details about our warranty.

### SYSTEM FOOTPRINT

- BAUER M-SERIES SIMPLEX
  - Available with optional enclosure
  - 133” x 104” x 115” (3378mm x 2642mm x 2921mm)

- BAUER M-SERIES DUPLEX
  - Available with optional enclosure
  - 192” x 90” x 115” (4877mm x 2286mm x 2870mm)
### TECHNICAL DATA

**BAUER C26 X-FILL®**
- **CNG Systems for Large Fleets**
- 150-175 HP (40-132 kW)
- 200-440 SCFM (340-748 m³/hr)
- 5000 PSIG (345 BAR) max discharge pressure

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Pressure</th>
<th>Final Pressure</th>
<th>Capacity</th>
<th>Number of Stages</th>
<th>Running Speed</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MIN</td>
<td>MAX</td>
<td>MIN</td>
<td>MAX</td>
<td>CFM</td>
<td>M³/H</td>
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<td>345</td>
<td>152</td>
</tr>
</tbody>
</table>

Note: All capacities are based on pipeline quality natural gas supplied at the maximum allowable inlet pressure to the compressor and 3600 psig discharge pressure. For all models lower inlet pressure is possible but with reduced capacity and possibly reduced discharge pressure. Motor power is reference to maximum allowable inlet pressure and 4500 psig discharge pressure. Consult BAUER for performance at other conditions.

#### SYSTEM FOOTPRINT
- 216" L X 87.6" W X 117" H
  (5486.4mm x 2225.04mm x 2971.8mm)

### TECHNICAL DATA

**BAUER C52 X-FILL®**
- **CNG Systems for Large Fleets**
- 250-350 HP (185-240 kW)
- 340-875 SCFM (578-1487 m³/hr)
- 5000 PSIG (345 BAR) max discharge pressure

<table>
<thead>
<tr>
<th>Model</th>
<th>Inlet Pressure</th>
<th>Final Pressure</th>
<th>Capacity</th>
<th>Number of Stages</th>
<th>Running Speed</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>MAX</td>
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<td>CFM</td>
<td>M³/H</td>
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<td>0.34</td>
<td>340</td>
<td>578</td>
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<td>C52.2</td>
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<td>C52.10</td>
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<td>10.3</td>
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<td>345</td>
<td>875</td>
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Note: All capacities are based on pipeline quality natural gas supplied at the maximum allowable inlet pressure to the compressor and 3600 psig discharge pressure. For all models lower inlet pressure is possible but with reduced capacity and possibly reduced discharge pressure. Motor power is reference to maximum allowable inlet pressure and 4500 psig discharge pressure. Consult BAUER for performance at other conditions.

#### SYSTEM FOOTPRINT
- 297.6" L X 99.6" W X 117" H
  (297.6mm x 2529.84mm x 2971.8mm)
BAUER XXL™ SERIES CNG SYSTEMS
High CNG FLOW At Low Inlet Pressures

The BAUER XXL™ series CNG systems have been designed to provide maximum flow at very low inlet pressures ranging from 5 PSIG up to 25 PSIG although the systems are also capable of taking higher inlet pressures.

Maximizing CNG flow at low inlet pressures is accomplished by adding another stage of compression in front of our standard C23.12 M-Series, C26.12 X-Fill and C52.12 X-Fill CNG booster compressor systems.

The first compressor stage in the BAUER XXL series CNG compressor systems is a standard BAUER GRU® rotary screw gas compressor system. BAUER GRU® rotary screw compressor systems have been used extensively in Biogas applications around the world with a track record of extreme reliability. The BAUER GRU® compressor boosts the available utility gas inlet pressure to maximize the performance of BAUER’s standard M-Series and X-Fill series reciprocating booster compressors.
**BAUER C23 XXL SYSTEM**
- 75-90 HP (56-67 kW)
- 115 SCFM (195 m³/hr)
- 5000 PSIG (345 BAR) max discharge pressure

**SYSTEM FOOTPRINT**
- GRU 3/6
  - 133" x 104" x 115" (3378mm x 2642mm x 2921mm)
- C.23.12 M-SERIES
  - 133" x 104" x 115" (3378mm x 2642mm x 2921mm)

**BAUER C26 XXL SYSTEM**
- 250-275 HP (187-205 kW)
- 360 SCFM (612 m³/hr)
- 5000 PSIG (345 BAR) max discharge pressure

**SYSTEM FOOTPRINT**
- BAUER GRU 9
  - 55" W X 97" L X 85" H (1397mm W X 2463.8mm L X 2159mm H)
- C.26.12 X-FILL
  - 216" L X 87.6" W X 117" H (5486.4mm x 2225.04mm x 2971.8mm)

**BAUER C52 XXL SYSTEM**
- 475-550 HP (355-410 kW)
- 720 SCFM (1244 m³/hr)
- 5000 PSIG (345 BAR) max discharge pressure

**SYSTEM FOOTPRINT**
- GRU15/28
  - 100" W X 130" L X 117" H (2540mm W X 3886mm L X 2971mm H)
- C.52.12 X-FILL
  - 297.6" L X 99.6" W X 117" H (297.6mm x 2529.84mm x 2971.8mm)

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### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Gas Inlet Pressure Range</th>
<th>Final Discharge Pressure</th>
<th>CNG Flow Capacity (See Note 2)</th>
<th>Number of Stages</th>
<th>Combined Motor Power (See Note 3)</th>
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<td>PSIG BAR PSIG BAR SCFM M³/H GGE/H GLE/H</td>
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<td>5 475 - 550 355 - 410</td>
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</tbody>
</table>

*Note 1: The volumetric capacity stated in the table can be achieved for all inlet pressure scenarios upwards of 5 psig inlet pressure. The size for the first stage GRU compressor varies with available gas inlet pressure.*

*Note 2: Volumetric performance stated in ISO1217 Standard Conditions: 14.5 psia, 68°F, 0%RH (100,000 kPA, 20°C, 0%RH)*

*Note 3: Motor power (HP / KW) requirement depends on inlet pressure which determines the size of the GRU rotary screw booster used for the application.*

*Note 4: Gas inlet pressures above 25 psig require a gas inlet regulator.*
BAUER CONNECT® is an app and internet-based IoT solution that 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 CONNECT® FLOW CHART

- **BAUER Unit**
- **Internet**
- **BAUER Cloud**
- **Mobile Device**

### 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.

### 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.

### 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.

### 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.

### 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 ensures 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.

**TO LEARN MORE VISIT**

bauer-connect.com
LIFECYCLE PERFORMANCE
BAUER is committed to the lifecycle performance of its customers

PARTS

OEM PARTS WARRANTY  RAPID DELIVERY

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

PARTS: 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

TRAINING

ON-SITE/OFF-SITE TRAINING  FACTORY TRAINED TECHS

BAUER COMPRESSORS INC. offers a variety of on-site and off-site Training Schools. Our on-site classes are held at our BAUER Training Facility and are taught by the same people who help manufacture, test, and service our products. From electrical systems to hands-on breakdowns, we cover all areas of compressor operation.

TRAINING TOPICS
Basic mechanical theory and control system theory (electric and pneumatic), along with troubleshooting for all BAUER systems.
Class schedule and course registration at: www.BauerCustomerTraining.com

GLOBAL SERVICE

GLOBAL SERVICE REACH

FACTORY TRAINED TECHS

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.

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.

BAUER HELPDESK

24/7 PHONE TECH SUPPORT  LIFECYCLE PERFORMANCE

TRAINING TOPICS
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