

BAUER GRU™

BAUER Solutions for Biogas



PURELY THE RIGHT CHOICE



CONTENTS

THE CASE FOR BIOGAS

- › The Problem 4
- › The Solution: Generating Biogas As An Alternative Clean Energy Source 5
- › Complete Solutions 6

TURNKEY SOLUTIONS FOR BIOGAS

- › 75 Years Of Experience In Gas Compression And Processing 8
- › Turnkey Solutions For Biogas Generation 9

BAUER GRU™

Biogas Recovery Compressors For Injection Into PSA or Membrane Gas Conditioning Systems

- › BAUER GRU™ Overview 10
- › BAUER GRU™ Micro 12
- › BAUER GRU™ 3 13
- › BAUER GRU™ 6 14
- › BAUER GRU™ 9 15
- › BAUER GRU™ 15 16
- › BAUER GRU™ 28 17
- › BAUER GRU™ 42 18
- › BAUER GRU™ 76 19

BAUER GRU™ HP

Rotary Screw Gas Booster Compressor For Pipeline Injection And High Pressure Gas Turbine Applications

- › BAUER GRU™ HP 20

BAUER CNG COMPRESSOR SYSTEMS

Full Line Of Reciprocating Piston Compressor Systems For High Pressure CNG Applications Up To 5000 PSIG Final Pressure

- › BAUER CNG Compressor Systems Overview 22
- › BAUER Micro Series™ C120 24
- › BAUER Compact Series™ C15/22 25
- › BAUER M-Series™ Simplex 26
- › BAUER M-Series™ Duplex 27
- › BAUER C26 X-FILL™ 28
- › BAUER C52 X-FILL™ 29

BAUER CONNECT®

Remote Telemetry and Control Via Mobile App

- › BAUER CONNECT® 30

THE CASE FOR BIOGAS

METHANE EMISSIONS 25x

MORE DAMAGING TO THE ATMOSPHERE THAN CARBON DIOXIDE

METHANE

CO₂

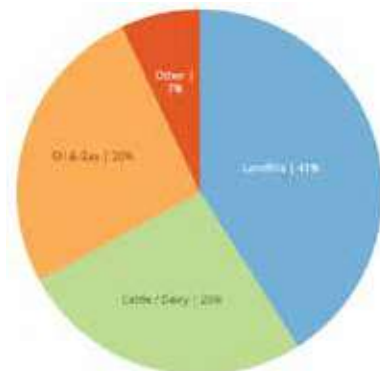
THE PROBLEM:

Decomposing organic material in anaerobic conditions releases methane into the atmosphere. Anaerobic fermentation is common in a landfill and open stockpiles such as manure piles. Global emissions from waste have almost doubled since 1970 and now produce 3% of anthropogenic (human origin) emissions (IPCC 2014). About half of these emissions come from the anaerobic fermentation of solid waste disposal on land.

A 2016-2018 study by NASA’s Jet Propulsion Laboratory in cooperation with the California Energy Commission utilizing airborne remote-sensing, surface-monitoring networks and satellites over the State of California revealed more than 550 individual point sources emitting plumes of highly concentrated methane. Ten percent of these sources, considered super-emitters, contributed the majority of the emissions detected. The team estimates that statewide, super-emitters are responsible for about a third of California’s total methane budget.

The study revealed the top three super-emitters contributing to 93% of methane emissions to be:

- Landfills 41%
- Cattle/Dairy Industry 26%
- Oil and Gas Industry 26%
- Other..... 7%



› DETRIMENTAL ENVIRONMENT EFFECTS:

Methane (CH₄) is a major contributor to global greenhouse gas emissions which have been linked to global warming, climate change and disruption of weather cycles. As such, methane is 25 times more detrimental to the environment than carbon dioxide (CO₂) because it traps significantly more heat in the Earth’s atmosphere than CO₂. Therefore, curbing methane emissions into the atmosphere is currently high priority for methane emitters.

› INCREASED GOVERNMENTAL REGULATION:

In October 2009, the U.S. EPA issued a rule (40 CFR Part 98) that requires the reporting of greenhouse gas (GHG) emissions from large sources and suppliers in the United States, and is intended to collect accurate and timely emissions data for future policy decisions. It is just a matter of time before emissions of greenhouse gases become more tightly regulated by both federal and state governmental agencies. The State of California, for example, has made cutting human-caused emissions a top priority.

› INCREASING ACTIVIST PRESSURE DIRECTED TOWARDS MUNICIPAL, STATE AND PRIVATE INDUSTRY SEGMENTS:

Many public and private sectors face enormous pressure from environmental activists, the public at large as well as investors and shareholders to reduce greenhouse emissions. As a result, more and more entities whose operations generate greenhouse gases are becoming worried about their negative public image and future long-term viability.

THE SOLUTION: GENERATING BIOGAS AS AN ALTERNATIVE CLEAN ENERGY SOURCE

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

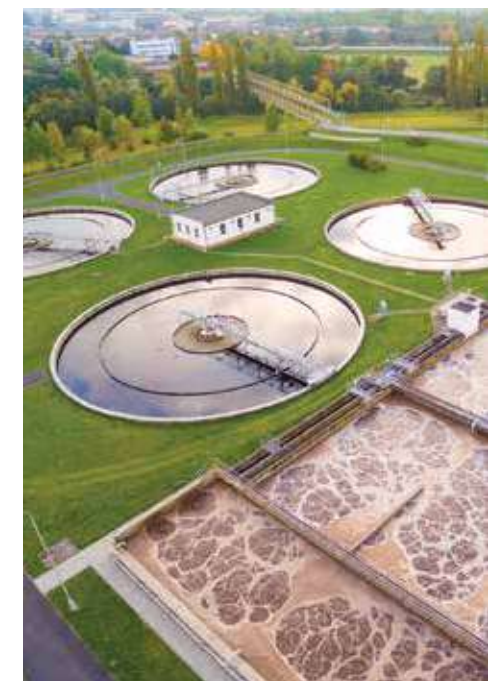
3 SOURCES OF METHANE EMISSIONS FROM ANAEROBIC FERMENTATION



› Methane Gas Emissions from Landfills



› Methane Gas Emissions from Dairy and Animal Waste



› Methane Gas Emissions from Waste Treatment Plants



COMPLETE SOLUTIONS For On-Site Methane Gas Recovery And Utilization

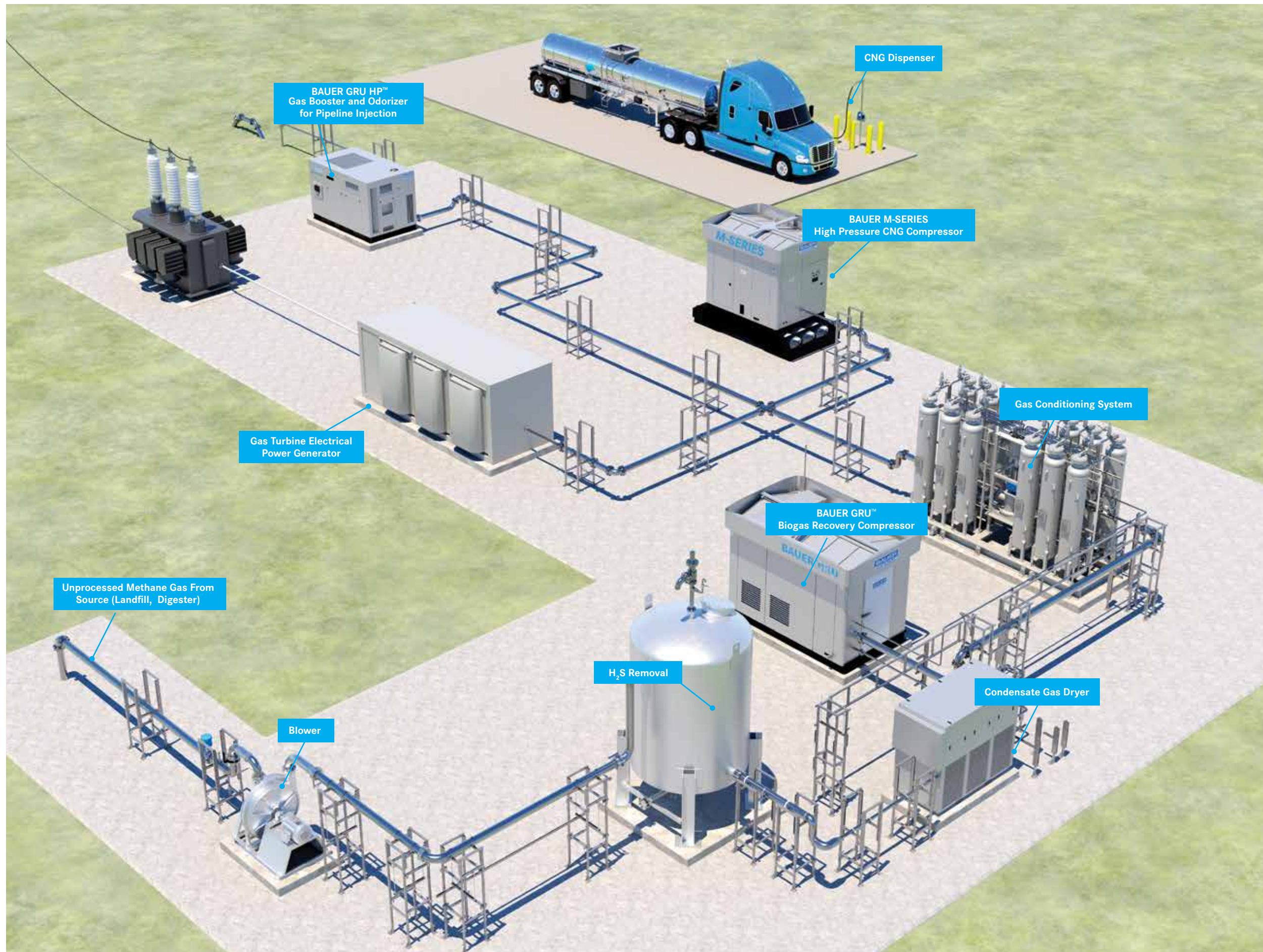
Generating biogas from the methane emitted from landfills, dairies/cattle feedlots and wastewater facilities through anaerobic fermentation not only eliminates methane emissions into the atmosphere but can also be a source of additional revenue and profit for the operator by:

- ▶ Selling the gas to a utility
- ▶ Offsetting costs associated with purchasing fuel for vehicles by producing their own fuel (CNG)
- ▶ Producing their own electricity through co-generation

BAUER is known globally for its expertise in manufacturing gas compression systems. In order to provide our customers with a complete turnkey solution for generating clean biogas, BAUER has partnered up with highly experienced companies which are specialized in various aspects of biogas processing beyond compression.

Solutions include:

- ▶ Engineering, procurement construction
- ▶ Compression
- ▶ Processing (drying and conditioning systems)
- ▶ Pipeline feeding
- ▶ Power generation



TURNKEY SOLUTIONS FOR BIOGAS



75 YEARS OF EXPERIENCE IN GAS COMPRESSION AND PROCESSING

BAUER's core competence is 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 that require compressors. BAUER compressors are known around the world for their extreme durability and reliability. All BAUER compressors and compressor systems are backed by BAUER's unmatched 2-Year comprehensive warranty as well as Lifetime Support guarantee. Combined with BAUER's global reach (35 offices in 20 countries) and over 600 distributors world-wide, no one in the industry can match BAUER's dedication to supporting their customers.

Another major BAUER advantage is that 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 the entire system.

BAUER has extensive experience in providing compression solutions specifically in biogas applications. To date, we have completed over 100 compressor installations in biogas processing and over 2,000 successful installations in CNG applications.

Biogas processing facilities require compression for the following processes:

- › Compressors for Feeding Gas Conditioning Systems
- › Compressors for Compression of Gas into the Utility Grid
- › Compressors for Feeding Gas Turbine Generators
- › Compressors for High Pressure CNG Systems

TURNKEY SOLUTIONS FOR BIOGAS GENERATION

Compression is only half of the biogas generation equation. Through **partnerships** with highly experienced and reputable companies in biogas processing, BAUER can offer the following solutions to provide a complete turnkey biogas processing solution.



› ENGINEERING, PROCUREMENT CONSTRUCTION

BAUER has formed partnerships 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 DRYING SYSTEMS

Biogas from a landfill or digester typically contains a high level of moisture. This excess moisture needs to be removed before further processing of the gas and making it suitable for use as a viable fuel. The technology used for removing this excess moisture from biogas is condensate drying. Condensate drying involves chilling the biogas to drop excess moisture out of the gas through condensation. The goal of a condensate dryer is to lower the dew point of the gas. BAUER has full access to third-party biogas condensate drying solutions



› BIOGAS CONDITIONING SYSTEMS

After removing the excess moisture from the biogas source, whether landfill, animal waste, digester, etc. it is still not suitable for injection into natural gas pipelines, power generation or CNG for vehicular use. Pipeline quality gas is typically 98% pure methane. The biogas coming from a landfill /or digester is typically only 60% methane, which means that 38% of contaminants need to be removed from the gas. Biogas from a landfill or digester typically contains contaminants such as Hydrogen Sulfite (H₂S), Carbon Dioxide, Nitrogen, Hexane, Pentanes, Siloxides, etc. Before being useful as a fuel source, the gas needs to be conditioned and purified of these contaminants. BAUER partners can offer bulk contaminant removal technology as well as membrane and PSA technology for processing into usable biogas.



› POWER GENERATION SOLUTIONS

To help biogas plant operators maximize their profits by fully utilizing the potential of their compressed gas, BAUER has partnered with reputable companies in the industry to provide on-site systems for power generation. These include natural gas engine power generators as well as gas turbine power generators.

BAUER GRU™ Biogas Recovery Compressors For Injection Into PSA or Membrane Gas Conditioning Systems

The BAUER GRU™ Biogas Recovery Compressor range has been specifically designed for methane recovery and conditioning in biogas applications. The function of the biogas recovery compressor is to elevate the pressure of the incoming biogas from 1-7 PSIG (typical) to 90 - 230 PSIG which is the operating pressure requirement for most PSA/Membrane type gas conditioning systems. BAUER offers a complete GRU™ system size range from 10 HP to 750 HP (7.5-560KW).

At the heart of every GRU™ vapor recovery system is the legendary BAUER Rotorcomp® rotary screw compressor which is world-renowned for exceptional durability and reliability. The GRU™'s sophisticated control system senses pressure upstream of the unit and automatically adjusts compressor speed to modulate compressor output based on the availability of methane gas 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 vs. ramping up through normal start-up sequences after being completely shut down.

THE MOST COMPREHENSIVE SIZE AND PERFORMANCE RANGE IN THE INDUSTRY

BAUER offers 8 different sizes and models of biogas recovery compressors ranging from 10 - 750 HP (7.5 - 560 KW). This allows BAUER to size the compressor system specific to the performance needs of each project

- › **Inlet pressure range:** 0.1 - 36 PSIG (0.007 - 2.5 BAR)
- › **Horsepower range:** 10 - 750 HP (7.5 - 560 kW)
- › **Biogas Flow Rate:** 15 - 2333 SCFM (24 to 3756 Nm³/h)
- › **Final Pressure:** 90 - 230 PSIG (6.2 - 15.58 BAR)

STANDARD SCOPE OF SUPPLY

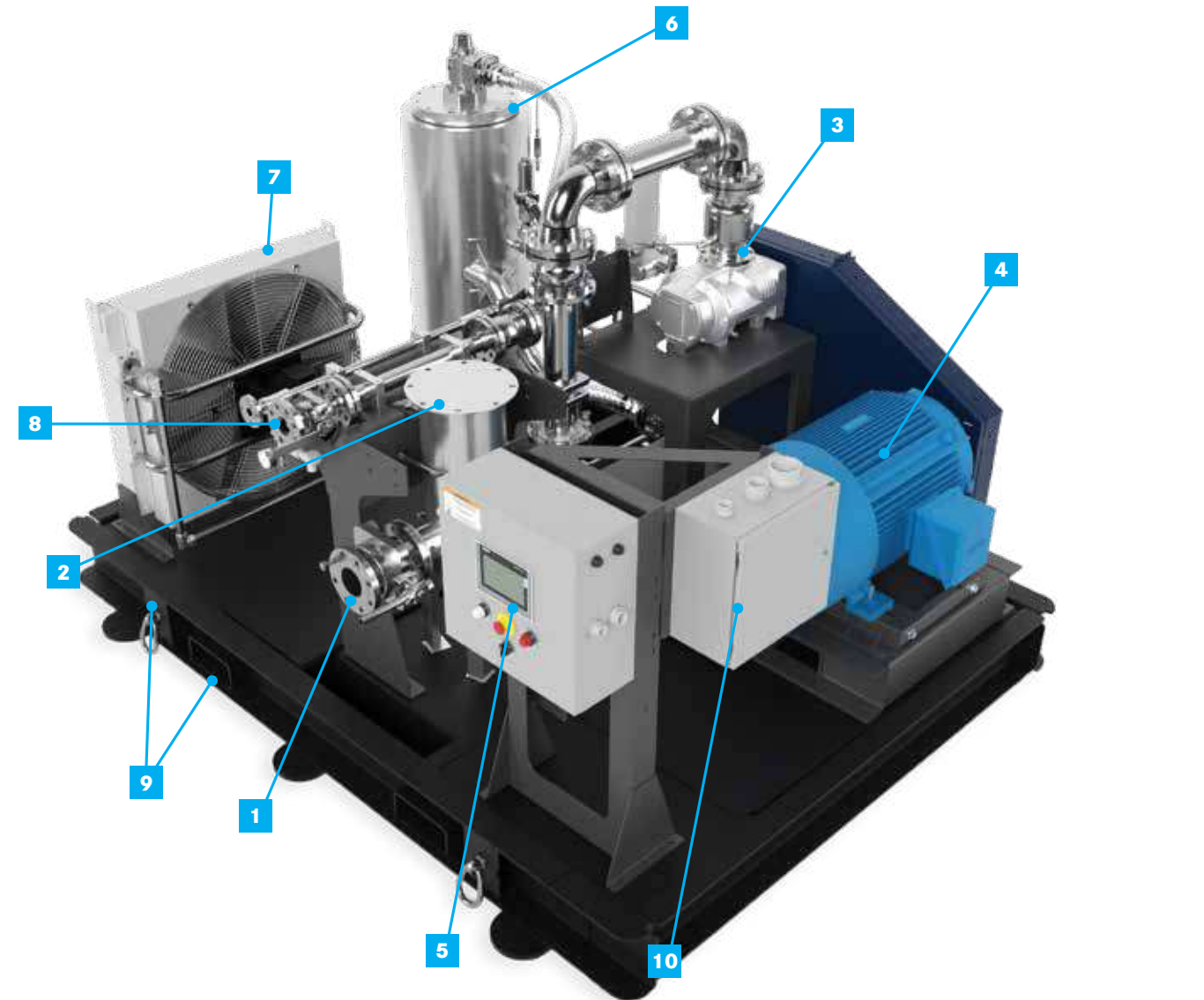
- › Heavy-duty rotary screw compressor manufactured by BAUER's Rotorcomp® division at the heart of the system
- › Variable speed control of compressor to modulate the flow of biogas based on the incoming supply of gas (VF drive located remote from skid as defined by Class 1, Div 2 code requirements per NEC NFPA70)
- › 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

AVAILABLE OPTIONS

- › Gas inlet particulate filter
- › Gas aftercooler (air-cooled)
- › Heavy-duty weatherproof enclosure
- › Sound attenuation
- › Passivation of piping
- › Ultrasonic testing of piping welds (100% material NDE traceability for process components)
- › Hydro testing of piping and relevant components (100% material NDE traceability for process components)
- › Special certifications and documentation
- › CE electrical code, CRN pressure vessel code
- › Heat-recovery

CODES AND STANDARDS

- › **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

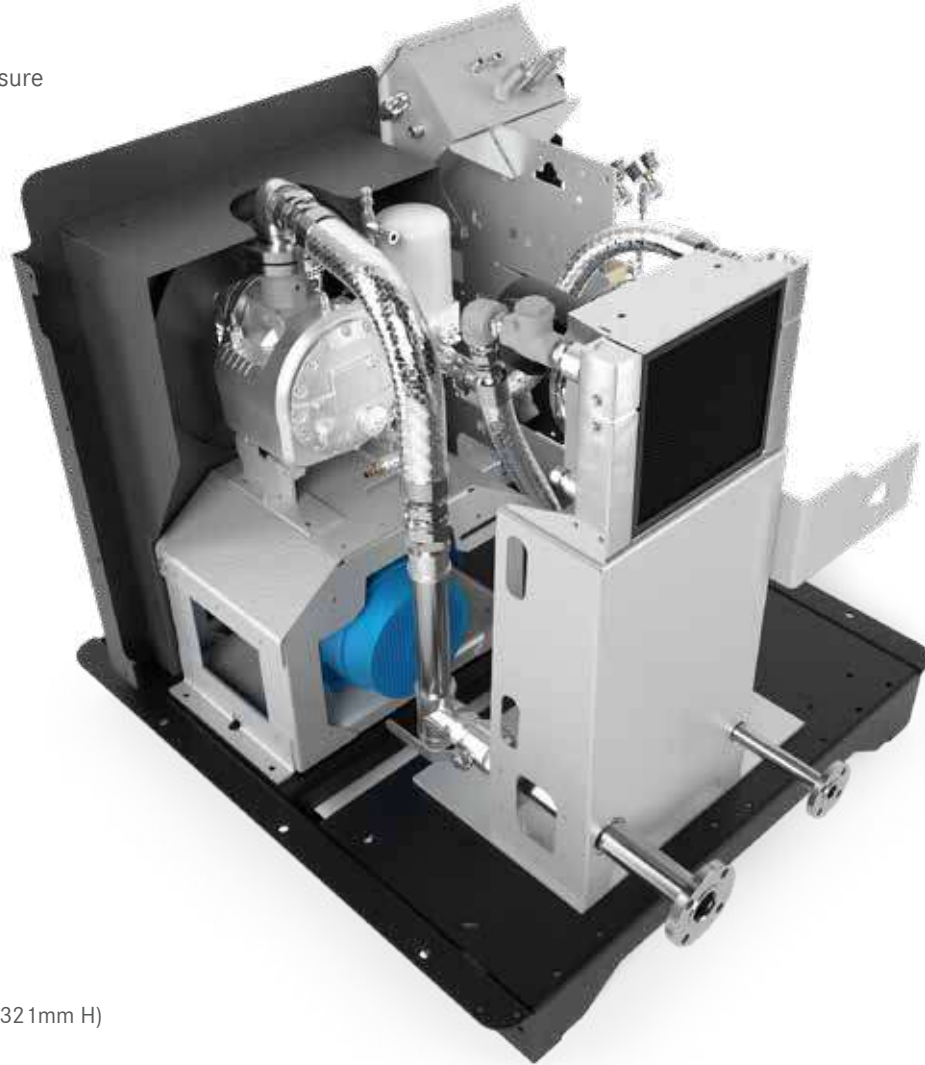


- 1** GAS INLET CONNECTION (FLANGED)
- 2** OPTIONAL INLET PARTICULATE FILTER
- 3** BAUER EVO® GAS ROTARY SCREW COMPRESSOR
- 4** TEFC ELECTRIC MOTOR
- 5** HMI/PCC CONTROL PANEL (NEMA4)
- 6** OIL/GAS SEPARATOR
- 7** OIL COOLER
- 8** GAS OUTLET CONNECTION (FLANGED)
- 9** HEAVY DUTY SKID WITH INTEGRATED FORKLIFT POCKETS AND LIFTING RINGS
- 10** ELECTRIC JUNCTION BOX TO ENABLE CONNECTION TO REMOTE MOUNTED VARIABLE FREQUENCY MOTOR CONTROLLER

BAUER GRU™ MICRO GAS RECOVERY SYSTEM

Ultra Compact Design For Low Biogas Flow Applications

- › 5-10 HP(3.7-7.5KW)
- › 5-28 SCFM (24-45M³/HR)
- › 230 PSIG (15.85 Bar) PSIG max discharge pressure



- › **BAUER GRU™ MICRO**
Available with optional enclosure

SYSTEM FOOTPRINT

- › 55" W X 57" L X 52" H (1397mm W X 1448mm L X1321mm H)

TECHNICAL DATA

BAUER GRU™ MICRO PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

Motor		Suction Pressure		Max Final Pressure		At Min RPM			At Max RPM				
HP	KW	PSIG	BAR	PSIG	BAR	RPM	SCFM	KG/MIN	NM ³ /H	RPM	SCFM	KG/MIN	NM ³ /H
10	7.5	1.0	0.069	230	15.85	3000	15	0.5	24	4100	22	0.8	35
10	7.5	3.5	0.24	230	15.85	3000	17	0.6	28	4000	25	0.8	40
10	7.5	7.0	0.48	230	15.85	3000	21	0.7	33	3800	28	1.0	45

All performance values referenced in the table above are based on the following conditions: 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: 230 psig (15.8 bar). Calculations are based on ISO 1217 norm (100,000 kPa, 20° C, 0% RH). Any deviations from these conditions will modify the stated performance results. Consult with your Bauer representative for conditions other than referenced herein.

BAUER GRU™ 3 GAS RECOVERY SYSTEM

Compact Design For Low Biogas Flow Applications

- › 15-20 HP (12-15KW)
- › 29-58 SCFM (46-93M³/HR)
- › 230 PSIG (15.85 Bar) PSIG max discharge pressure



- › **BAUER GRU™ 3**
Available with optional enclosure

SYSTEM FOOTPRINT

- › 51" W X 64" L X 85" H (1295.4mm W X 1625.6mm X2159mm H)

TECHNICAL DATA

BAUER GRU™ 3 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

Motor		Suction Pressure		Max Final Pressure		At Min RPM			At Max RPM				
HP	KW	PSIG	BAR	PSIG	BAR	RPM	SCFM	KG/MIN	NM ³ /H	RPM	SCFM	KG/MIN	NM ³ /H
GRU™ 3 (15hp/12kw)													
15	12	1.0	0.069	230	15.85	3200	29	1.0	46	3600	33	1.1	53
15	12	3.5	0.24	230	15.85	3200	34	1.1	54	3400	36	1.2	58
15	12	7.0	0.48	230	15.85	3200	40	1.4	65	3200	40	1.4	65
GRU™ 3 (20hp/15kw)													
20	15	1.0	0.069	230	15.85	3200	29	1.0	46	4800	44	1.5	71
20	15	3.5	0.24	230	15.85	3200	34	1.1	54	4600	51	1.7	82
20	15	7.0	0.48	230	15.85	3200	40	1.4	65	4400	58	2.0	93

All performance values referenced in the table above are based on the following conditions: 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: 230 psig (15.8 bar). Calculations are based on ISO 1217 norm (100,000 kPa, 20° C, 0% RH). Any deviations from these conditions will modify the stated performance results. Consult with your Bauer representative for conditions other than referenced herein.

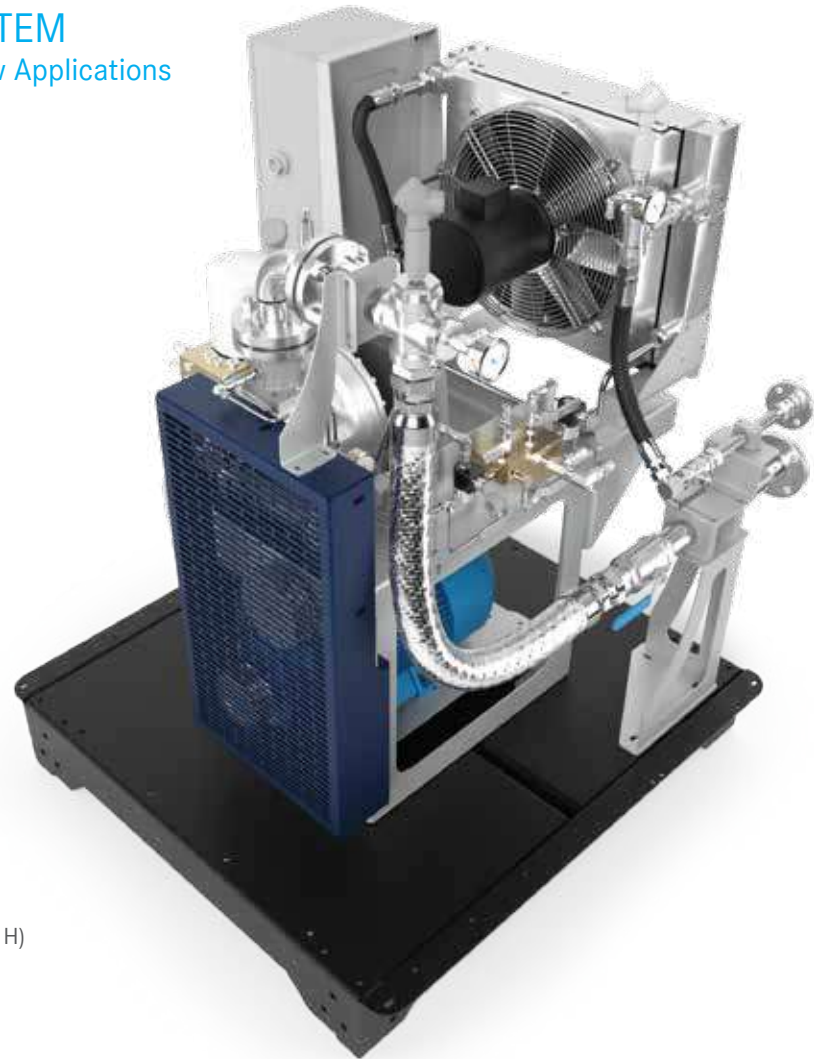
BAUER GRU™ 6 GAS RECOVERY SYSTEM

Compact Design For Low To Medium Biogas Flow Applications

- › 30-50 HP (25-38KW)
- › 49-143 SCFM (78-230M³/HR)
- › 230 PSIG (15.85 Bar) PSIG max discharge pressure



- › **BAUER GRU™ 6**
Available with optional enclosure



SYSTEM FOOTPRINT

- › 55" W X 139" L X 85" H (1397mm W X 3531mm L X 2159mm H)

TECHNICAL DATA

BAUER GRU™ 6 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

Motor		Suction Pressure		Max Final Pressure		At Min RPM			At Max RPM				
HP	KW	PSIG	BAR	PSIG	BAR	RPM	SCFM	KG/MIN	NM ³ /H	RPM	SCFM	KG/MIN	NM ³ /H
GRU™ 6 (30hp/23kw)													
30	23	1.0	0.069	230	15.8	2300	49	1.7	78	2700	60	2.0	96
30	23	3.5	0.24	230	15.8	2300	57	1.9	91	2550	65	2.2	104
30	23	7.0	0.48	230	15.8	2300	68	2.4	109	2400	72	2.4	115
GRU™ 6 (40hp/30kw)													
40	30	1.0	0.069	230	15.8	2300	49	1.7	78	3700	88	3.0	142
40	30	3.5	0.24	230	15.8	2300	57	1.9	91	3500	96	3.3	155
40	30	7.0	0.48	230	15.8	2300	68	2.4	109	3300	107	3.6	172
GRU™ 6 (50hp/38kw)													
50	38	1.0	0.069	230	15.8	2300	49	1.7	78	4700	117	4.0	188
50	38	3.5	0.24	230	15.8	2300	57	1.9	91	4500	129	4.4	208
50	38	7.0	0.48	230	15.8	2300	68	2.4	109	4200	143	4.8	230

All performance values referenced in the table above are based on the following conditions: 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: 230 psig (15.8 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™ 9 GAS RECOVERY SYSTEM

Compact Design For Low To Medium Biogas Flow Applications

- › 60-75 HP (45-46KW)
- › 98-238 SCFM (158-383M³/HR)
- › 230 PSIG (15.85 Bar) PSIG max discharge pressure



- › **BAUER GRU™ 9**
Available with optional enclosure



SYSTEM FOOTPRINT

- › 55" W X 139" L X 85" H (1397mm W X 3531mm L X 2159mm H)

TECHNICAL DATA

BAUER GRU™ 9 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

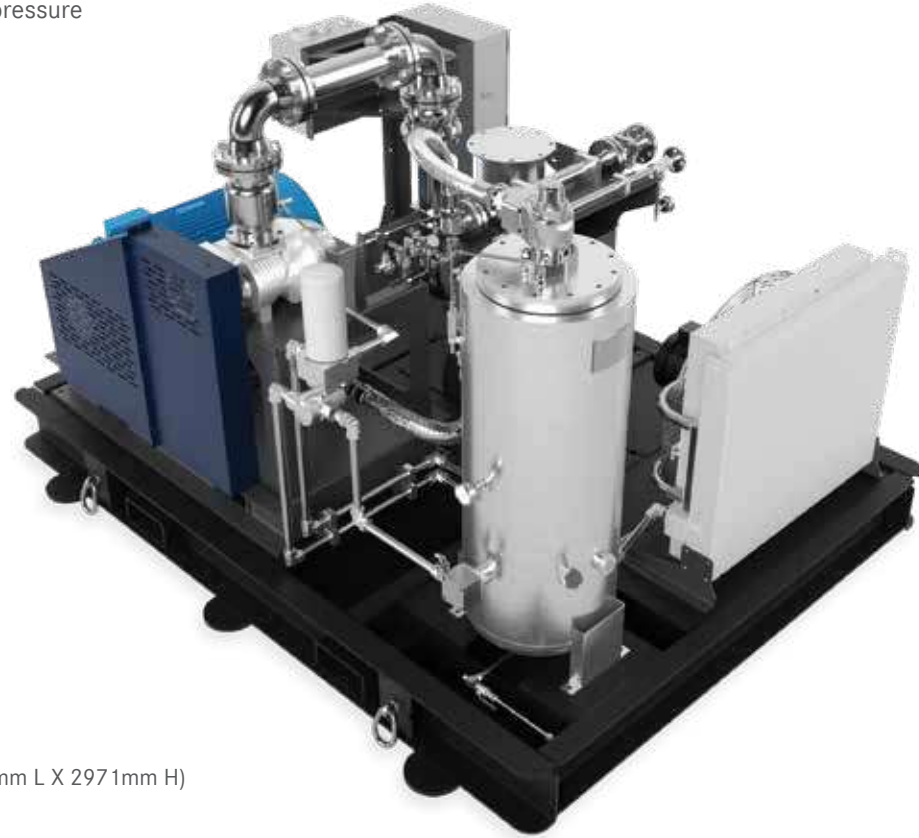
Motor		Suction Pressure		Max Final Pressure		At Min RPM			At Max RPM				
HP	KW	PSIG	BAR	PSIG	BAR	RPM	SCFM	KG/MIN	NM ³ /H	RPM	SCFM	KG/MIN	NM ³ /H
GRU™ 9 (60hp/45kw)													
60	45	1.0	0.069	230	15.8	2300	98	3.3	158	3300	150	5.1	242
60	45	3.5	0.24	230	15.8	2300	114	3.9	184	3100	163	5.5	262
60	45	7.0	0.48	230	15.8	2300	137	4.7	220	2950	184	6.3	296
GRU™ 9 (75hp/56kw)													
75	56	1.0	0.069	230	15.8	2300	98	3.3	158	4000	187	6.4	301
75	56	3.5	0.24	230	15.8	2300	114	3.9	184	3850	208	7.1	335
75	56	7.0	0.48	230	15.8	2300	137	4.7	221	3700	238	8.1	383

All performance values referenced in the table above are based on the following conditions: 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: 230 psig (15.8 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™ 15 GAS RECOVERY SYSTEM

Designed For Medium To High Biogas Flow Applications

- › 100-120 HP (75-90KW)
- › 154-425 SCFM (249-685M³/HR)
- › 230 PSIG (15.85 Bar) PSIG max discharge pressure



- › **BAUER GRU™ 15**
Available with optional enclosure

SYSTEM FOOTPRINT

- › 100" W X 153" L X 117" H (2540mm W X 3886mm L X 2971mm H)

TECHNICAL DATA

BAUER GRU™ 15 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

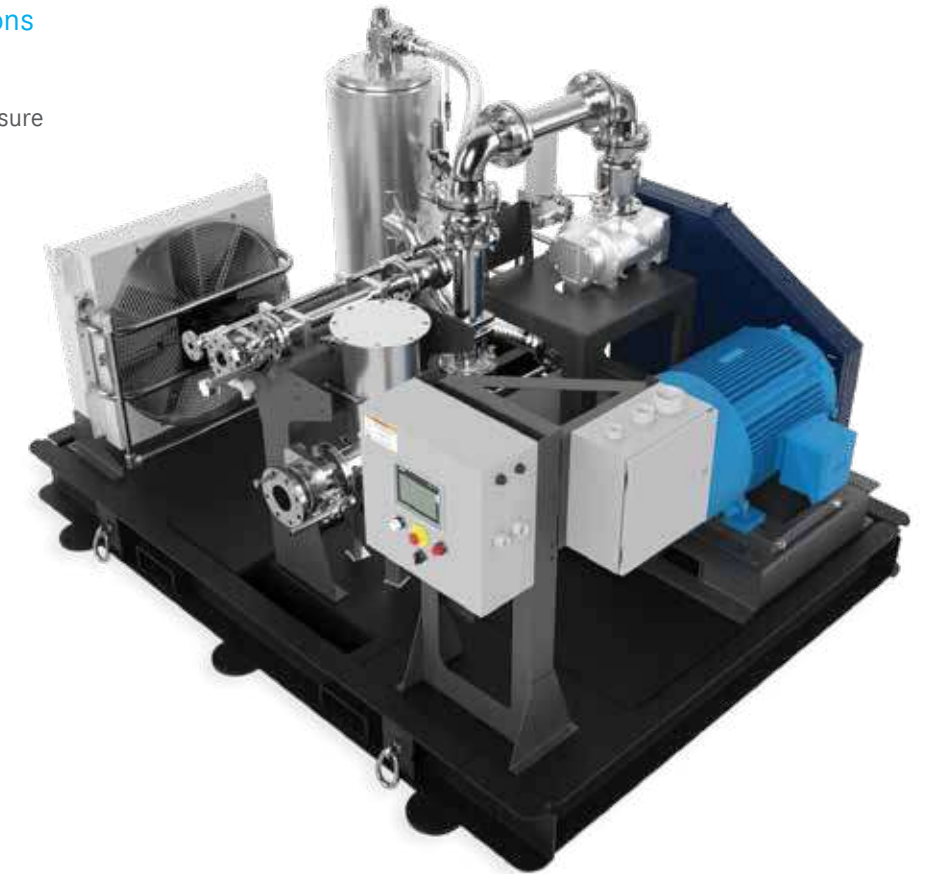
Motor		Suction Pressure		Max Final Pressure		At Min RPM				At Max RPM			
HP	KW	PSIG	BAR	PSIG	BAR	RPM	SCFM	KG/MIN	NM ³ /H	RPM	SCFM	KG/MIN	NM ³ /H
GRU™ 15 (100hp/75kw)													
100	75	1.0	0.069	230	15.8	1800	154	5.3	249	3000	268	9.1	431
100	75	3.5	0.24	230	15.8	1800	180	6.1	289	2900	301	10.2	484
100	75	7.0	0.48	230	15.8	1800	215	7.3	346	2800	346	11.8	558
GRU™ 15 (120hp/90kw)													
120	90	1.0	0.069	230	15.8	1800	154	5.3	249	3600	325	11.0	523
120	90	3.5	0.24	230	15.8	1800	180	6.1	289	3500	367	12.5	590
120	90	7.0	0.48	230	15.8	1800	215	7.3	346	3400	425	14.5	685

All performance values referenced in the table above are based on the following conditions: 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: 230 psig (15.8 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™ 28 GAS RECOVERY SYSTEM

Designed For High Biogas Flow Applications

- › 175-250 HP (131-190KW)
- › 379-778 SCFM (611-1252M³/HR)
- › 230 PSIG (15.85 Bar) PSIG max discharge pressure



- › **BAUER GRU™ 28**
Available with optional enclosure

SYSTEM FOOTPRINT

- › 100" W X 153" L X 117" H (2540mm W X 3886mm L X 2971mm H)

TECHNICAL DATA

BAUER GRU™ 28 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS

Motor		Suction Pressure		Max Final Pressure		At Min RPM				At Max RPM			
HP	KW	PSIG	BAR	PSIG	BAR	RPM	SCFM	KG/MIN	NM ³ /H	RPM	SCFM	KG/MIN	NM ³ /H
GRU™ 28 (175hp/131kw)													
175	131	1.0	0.069	230	15.8	1800	379	12.9	611	2200	469	16.0	755
175	131	3.5	0.24	230	15.8	1800	441	15.0	710	2150	533	18.1	857
175	131	7.0	0.48	230	15.8	1800	528	17.9	849	2050	556	20.6	895
GRU™ 28 (200hp/150kw)													
200	150	1.0	0.069	230	15.8	1800	379	12.9	611	2600	559	19.0	900
200	150	3.5	0.24	230	15.8	1800	441	15.0	710	2500	624	21.2	1,005
200	150	7.0	0.48	230	15.8	1800	528	17.9	849	2300	684	24.0	1,101
GRU™ 28 (250hp/190kw)													
250	190	1.0	0.069	230	15.8	1800	379	12.9	611	2800	604	20.6	973
250	190	3.5	0.24	230	15.8	1800	441	15.0	710	2700	676	23.0	1,089
250	190	7.0	0.48	230	15.8	1800	528	17.9	849	2600	778	26.0	1,252

All performance values referenced in the table above are based on the following conditions: 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: 230 psig (15.8 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™ 42 GAS RECOVERY SYSTEM

Designed For High Biogas Flow Applications

- ▶ 300-400 HP (223-400KW)
- ▶ 491-1171 SCFM (791-1885M³/HR)
- ▶ 230 PSIG (15.85 Bar) PSIG max discharge pressure



SYSTEM FOOTPRINT

- ▶ 96" W X 240" L X 102" H (2438mm W X 6096mm L X 2591mm H)

TECHNICAL DATA

BAUER GRU™ 42 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS													
Motor		Suction Pressure		Max Final Pressure		At Min RPM				At Max RPM			
HP	KW	PSIG	BAR	PSIG	BAR	RPM	SCFM	KG/MIN	NM ³ /H	RPM	SCFM	KG/MIN	NM ³ /H
GRU™ 42 (300hp/223kw)													
300	223	1.0	0.069	230	15.8	1800	491	16.7	791	2800	783	26.6	1,261
300	223	3.5	0.24	230	15.8	1800	572	19.4	920	2600	843	28.7	1,357
300	223	7.0	0.48	230	15.8	1800	684	23.3	1,101	2400	927	31.5	1,493
GRU™ 42 (400hp/300kw)													
400	300	1.0	0.069	230	15.8	1800	491	16.7	791	3400	958	32.6	1,543
400	300	3.5	0.24	230	15.8	1800	572	19.4	920	3200	1,047	35.6	1,685
400	300	7.0	0.48	230	15.8	1800	684	23.3	1,101	3000	1,171	39.8	1,885

All performance values referenced in the table above are based on the following conditions: 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: 230 psig (15.8 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™ 76 GAS RECOVERY SYSTEM

Designed For High Biogas Flow Applications

- ▶ 700-750 HP (520-560KW)
- ▶ 1366-2333 SCFM (2199-3756M³/HR)
- ▶ 230 PSIG (15.85 Bar) PSIG max discharge pressure



SYSTEM FOOTPRINT

- ▶ 96" W X 240" L X 102" H (2438mm W X 6096mm L X 2591mm H)

TECHNICAL DATA

BAUER GRU™ 76 PERFORMANCE AT VARIOUS HORSEPOWER AND SUCTION PRESSURE COMBINATIONS													
Motor		Suction Pressure		Max Final Pressure		At Min RPM				At Max RPM			
HP	KW	PSIG	BAR	PSIG	BAR	RPM	SCFM	KG/MIN	NM ³ /H	RPM	SCFM	KG/MIN	NM ³ /H
GRU™ 76 (700hp/520kw)													
700	520	1.0	0.069	230	15.8	1800	1366	46.5	2,199	2300	1,809	61.5	2,913
700	520	3.5	0.24	230	15.8	1800	1589	54.0	2,558	2150	1,950	66.3	3,139
700	520	7.0	0.48	230	15.8	1800	1901	64.7	3,061	2000	2,148	73.1	3,458
GRU™ 76 (750hp/560kw)													
750	560	1.0	0.069	230	15.8	1800	1366	46.5	2,199	2400	1,898	64.6	3,056
750	560	3.5	0.24	230	15.8	1800	1589	54.0	2,558	2300	2,104	71.6	3,388
750	560	7.0	0.48	230	15.8	1800	1901	64.7	3,061	2150	2,333	79.3	3,756

All performance values referenced in the table above are based on the following conditions: 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: 230 psig (15.8 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™ HP

Rotary Screw Gas Booster Compressor For Pipeline Injection And High Pressure Gas Turbine Applications

The BAUER GRU™ HP Gas Booster utilizes rotary screw compressor technology and has been specifically designed for biogas injection into the pipeline grid for applications where higher pressures (up to 600 PSIG) are required. The BAUER GRU™ HP 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™ HP is the perfect match-up to the GRU™ biogas recovery compressor system since the GRU™ HP 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:** 80 - 230 PSIG (5.5 - 15.8 BAR)
- › **Horsepower range:** 150-350 HP (112-260 KW)
- › **Biogas Flow Rate:** 1350 - 3300 SCFM (2293 - 5606 M³/HR)
- › **Final pressure:** 400-600 PSIG (27.5-41.3 BAR)

STANDARD SCOPE OF SUPPLY

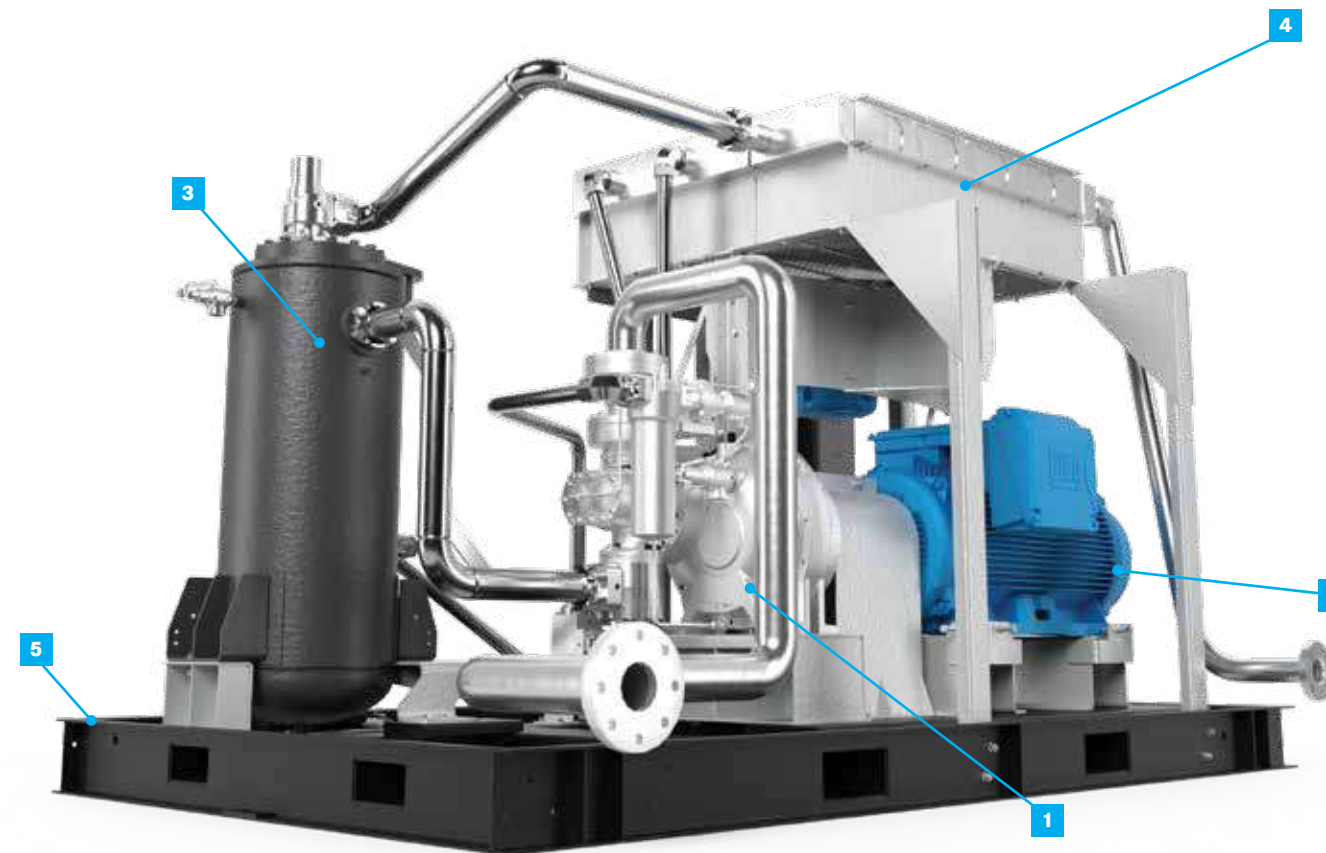
- › Heavy-duty rotary screw booster compressor at the heart of the system
- › Variable speed control of compressor to modulate the flow of biogas based on the incoming supply of gas (VF drive located remote from skid as defined by Class 1, Div 2 code requirements per NEC NFPA70)
- › Heavy-duty TEFC electric 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

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
- › Passivation of piping
- › Ultrasonic testing of piping welds
- › Hydro testing of piping and relevant components
- › Special certifications and documentation
- › CE certification CRN for pressure vessels

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



› **BAUER GRU™ ROTARY SCREW HIGH PRESSURE BOOSTER COMPRESSOR**

SYSTEM FOOTPRINT

- › 96" W X 240" L X 96" H (2438mm W X 6096mm L X 2438mm H)

- 1** SP12 ROTARY SCREW BOOSTER COMPRESSOR
- 2** TEFC ELECTRIC MOTOR
- 3** OIL/GAS SEPARATOR

- 4** COMBINATION OIL/GAS AFTER COOLER
- 5** HEAVY DUTY SKID WITH INTEGRATED FORKLIFT POCKETS AND LIFTING RINGS

TECHNICAL DATA

FOR GAS BOOSTING APPLICATIONS AT ELEVATED SUCTION PRESSURE AND FINAL PRESSURES UP TO 600 PSIG (ROTARY SCREW COMPRESSOR BOOSTER)											
Model	Motor		Compressor Model	Suction Pressure		Max Final Pressure		Motor RPM	Compressor RPM	SCFM	M ³ /HR
	HP	KW		PSIG	BAR	PSIG	BAR				
GRU12-350	350	260	SP-12	100	6.9	500	34.5	1790	6800	1763	2995
GRU12-350	350	260	SP-12	100	6.9	600	41.3	1790	6800	1350	2293
GRU12-350	350	260	SP-12	200	13.8	500	34.5	1790	6800	3300	5606
GRU12-350	350	260	SP-12	200	13.8	600	41.3	1790	6800	2800	4757

Note: 1) All performance data for compressed gas inlet (suction conditions) 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% All BAUER GRU™ systems are built to Class 1, Div2 NFPA standard

BAUER CNG COMPRESSOR SYSTEMS

Full Line Of Reciprocating Piston Compressor Systems For High Pressure CNG Applications Up To 5000 PSIG Final Pressure

BAUER offers a full line of reciprocating piston compressor systems that are capable of compressing the conditioned biogas 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.



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 Recovery Compressor system because the BAUER CNG booster compressors can utilize the outlet pressure generated by GRU™ Biogas Recovery 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)

STANDARD SCOPE OF SUPPLY

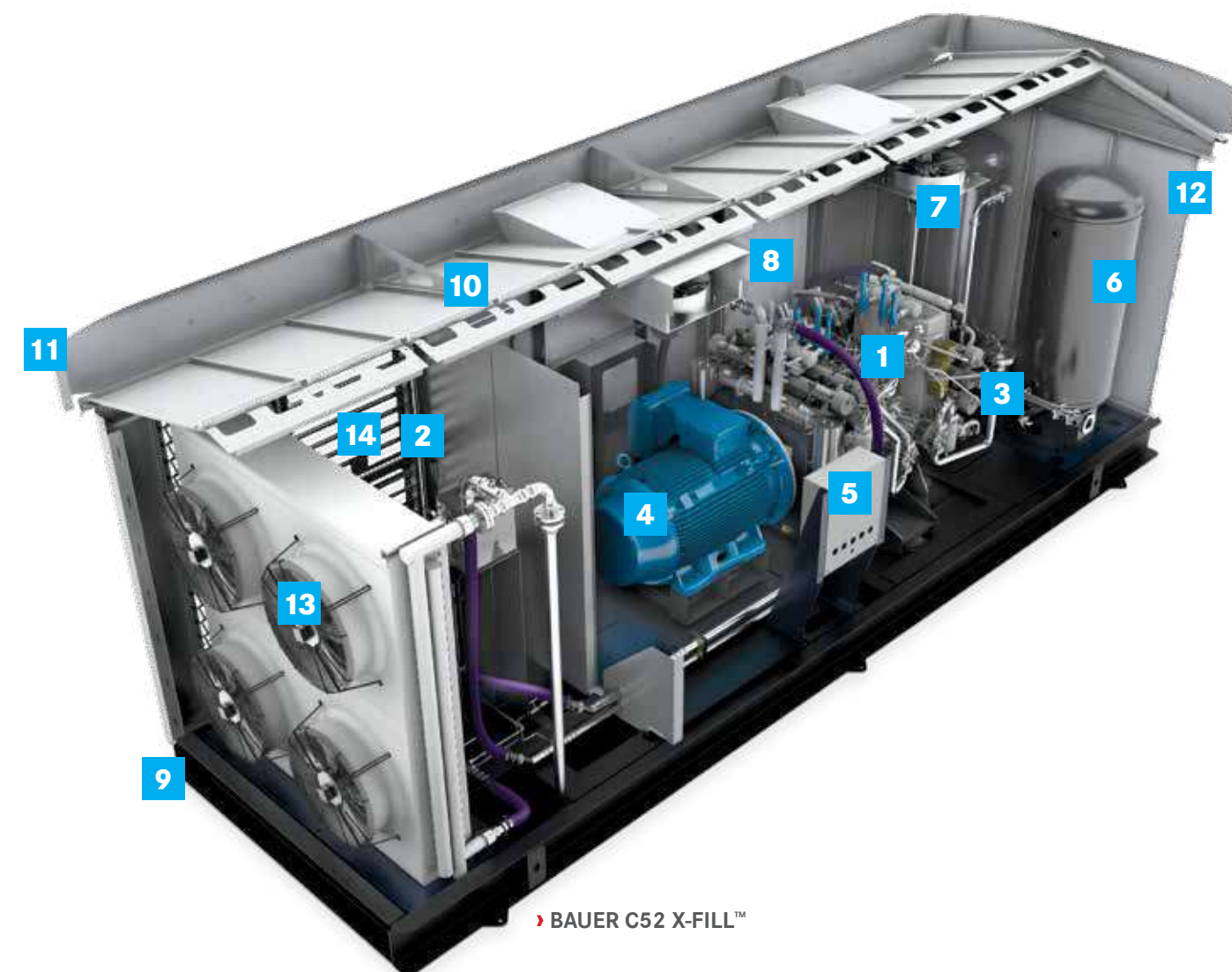
- › BAUER's heavy-duty reciprocating booster compressor at the heart of the system
- › PLC control of all major system components (Control systems equipped with VF drive are located remote from skid as intended by Class 1, Div 2 requirements per NEC, NFPA 10)
- › Heavy-duty TEFC electric motor
- › Stainless 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



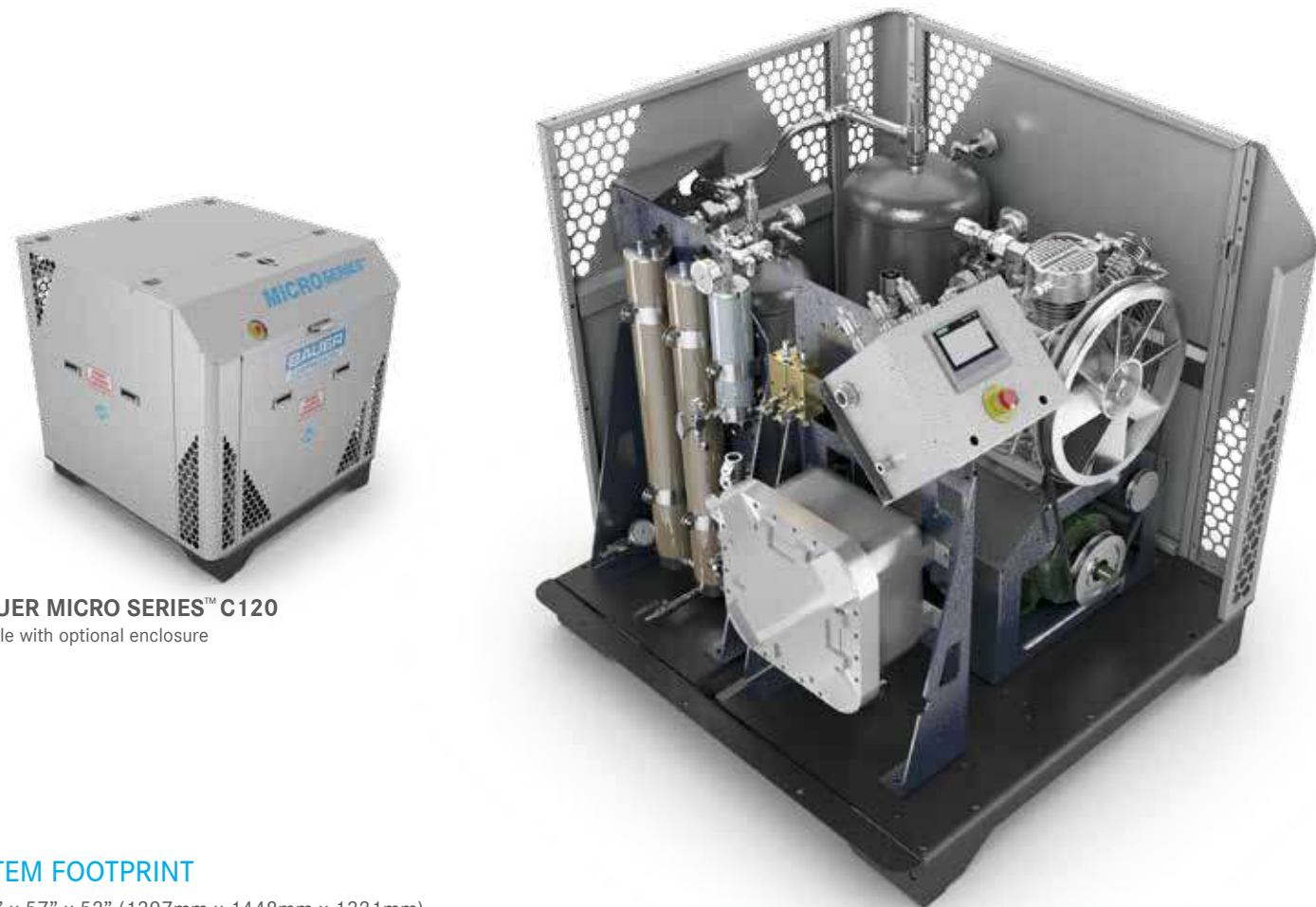
› BAUER C52 X-FILL™

- | | |
|--|---|
| <p>1 BAUER C52 COMPRESSOR WITH CLOSED LOOP GLYCOL WATER-COOLED CIRCUIT</p> <p>2 SEPARATE COMPARTMENT FOR COMPRESSOR COOLING GLYCOL WATER HEAT EXCHANGER</p> <p>3 SHELL AND TUBE HEAT EXCHANGERS</p> <p>4 HIGH EFFICIENCY TEFC MOTOR</p> <p>5 NEMA 4 CONTROL PANEL WITH INTEGRATED HMI</p> <p>6 INLET BUFFER/VAPOR RECOVERY TANKS</p> <p>7 COMPRESSOR COMPARTMENT EXHAUST FAN (x2)</p> | <p>8 INTERIOR LIGHTING AND INFRARED GAS DETECTOR</p> <p>9 PRECISION FORMED AND WELDED STEEL SKID</p> <p>10 PITCHED METAL ROOF (OBSCURED BY LOGO AWNING)</p> <p>11 CUSTOMIZABLE LOGO AWNING</p> <p>12 WEATHERPROOF AND RUSTPROOF POWDER-COATED GALVANNEAL ENCLOSURE (10 YEAR WARRANTY)</p> <p>13 HEAT EXCHANGER COOLING FANS</p> <p>14 COOLING AIR INTAKE LOUVERS</p> |
|--|---|

BAUER MICRO SERIES™ C120

CNG Systems for Small Fleets

- › 5-7.5 HP (3.7-5.5KW)
- › 6.3-9.0 SCFM (11-15 M³/HR)
- › 5000 PSIG (345 Bar) PSIG max discharge pressure



› **BAUER MICRO SERIES™ C120**
Available with optional enclosure

SYSTEM FOOTPRINT

- › 55" x 57" x 52" (1397mm x 1448mm x 1321mm)

TECHNICAL DATA

Model*	Inlet Pressure		Final Pressure		Capacity					Number of Stages	Running Speed	Motor				
	PSIG		BAR		CFM	M³/H	DGE/H	DLE/H	GGE/H			GLE/H	RPM	HP	KW	
	MIN	MAX	MIN	MAX												MAX
C120-6	1	5	0.07	0.34	5000	345	6.3	11	2.7	10.2	3.2	12.1	3	965	5	3.7
C120-9	1	5	0.07	0.34	5000	345	9	15	4	15.1	4.5	17	3	1350	7.5	5.5

Note: All capacities are referenced to maximum inlet pressure. Capacity is reduced if inlet pressure is less than maximum. Performance tolerance +/- 5%.
*C120-6=230 V, 1 Phase, 60 Hz; C120-9= 230-460 V, 3 Phase, 60 Hz

BAUER COMPACT SERIES™ C15/22

CNG Systems for Small to Medium Fleets

- › 20-30 HP (13.3-21.7KW)
- › 22-40 SCFM (37-68 M³/HR)
- › 5000 PSIG (345 Bar) PSIG max discharge pressure



› **BAUER COMPACT SERIES™ C15/22**
Available with optional enclosure

SYSTEM FOOTPRINT

- › 97" x 58" x 85" (2464mm x 1473mm x 2159mm)

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

Model	Inlet Pressure		Final Pressure		Capacity					Number of Stages	Running Speed	Motor				
	PSIG		BAR		CFM	M³/H	DGE/H	DLE/H	GGE/H			GLE/H	RPM	HP	KW	
	MIN	MAX	MIN	MAX												MAX
C15.2 Simplex	1	5	0.07	0.34	5000	345	22	37	9	34	11	42	4	1350	20	13.3
C15.4 Simplex	—	60	—	4.14	5000	345	27	46	12	45	14	53	3	1350	15	10.9
C22.0 Simplex	1	5	0.07	0.34	5000	345	40	68	17	64	20	76	4	1250	30	21.7

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. 1) + or - 5% dB

BAUER M-SERIES™ SIMPLEX

CNG Systems for Medium to Large Fleets

- › 50 HP (37 KW)
- › 75-125 SCFM (125-212 M³/HR)
- › 5000 PSIG (345 Bar) PSIG max discharge pressure



› **BAUER M-SERIES™ SIMPLEX**
Available with optional enclosure

SYSTEM FOOTPRINT

- › 133" x 104" x 115" (3378mm x 2642mm x 2921mm)

TECHNICAL DATA

Model	Inlet Pressure				Final Pressure		Capacity						Number of Stages	Running Speed	Motor		
	PSIG		BAR		PSIG	BAR	CFM	M ³ /H	DGE/H	DLE/H	GGE/H	GLE/H			RPM	HP	KW
	MIN	MAX	MIN	MAX	MAX	MAX											
C23.2	10	15	0.7	1	5000	345	75	127	32	121	38	144	4	1425	50	37	
C23.10	55	65	3.8	4.5	5000	345	90	153	39	148	45	170	4	1200	50	37	
C23.12	115	145	8	10	5000	345	115	195	49	185	58	220	4	1200	50	37	
C23.13	175	200	12	14	5000	345	125	212	54	204	63	238	4	1200	50	37	

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. Performance tolerance +/- 5% 1) + or - 5% dB. Please contact your BAUER representative for details about our warranty.

BAUER M-SERIES™ DUPLEX

CNG Systems for Medium to Large Fleets

- › 100 HP (75 KW)
- › 150-250 SCFM (254-424 M³/HR)
- › 5000 PSIG (345 Bar) PSIG max discharge pressure



› **BAUER M-SERIES™ DUPLEX**
Available with optional enclosure

SYSTEM FOOTPRINT

- › 192" x 90" x 113" (4877mm x 2286mm x 2870mm)

TECHNICAL DATA

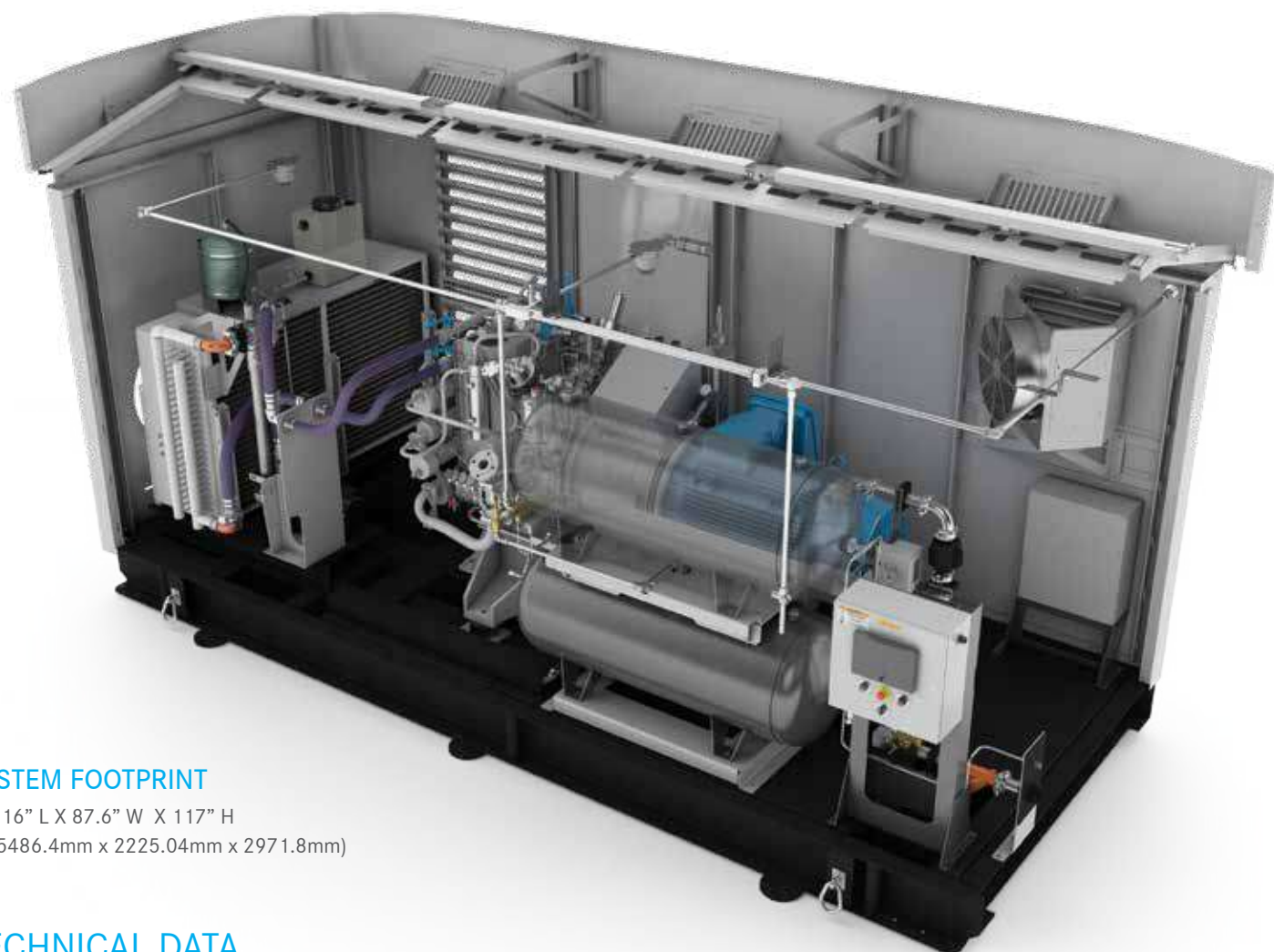
Model	Inlet Pressure				Final Pressure		Capacity						Number of Stages	Running Speed	Motor		
	PSIG		BAR		PSIG	BAR	CFM	M ³ /H	DGE/H	DLE/H	GGE/H	GLE/H			RPM	HP	KW
	MIN	MAX	MIN	MAX	MAX	MAX											
C23.2 Duplex	10	15	0.7	1	5000	345	150	254	64	242	76	288	4	1425	50 (x2)	37 (x2)	
C23.10 Duplex	55	65	3.8	4.5	5000	345	180	306	78	295	90	341	4	1200	50 (x2)	37 (x2)	
C23.12 Duplex	115	145	8	10	5000	345	230	390	98	370	116	439	4	1200	50 (x2)	37 (x2)	
C23.13 Duplex	175	200	12	14	5000	345	250	424	108	409	126	477	4	1200	50 (x2)	37 (x2)	

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. Performance tolerance +/- 5%. 1) + or - 5% dB. Please contact your BAUER representative for details about our warranty.

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) PSIG max discharge pressure



SYSTEM FOOTPRINT

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

TECHNICAL DATA

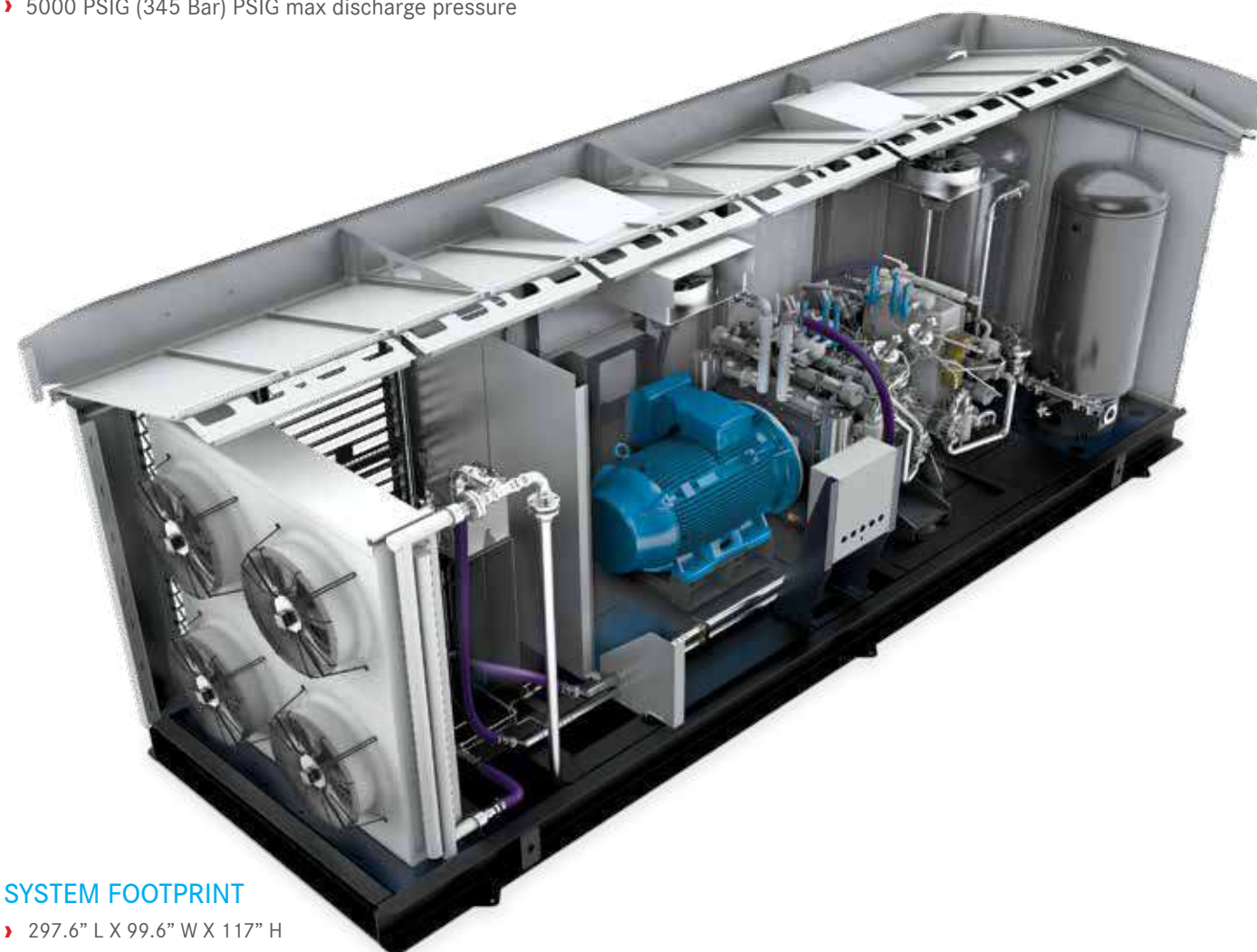
Model	Inlet Pressure				Final Pressure		Capacity					Number of Stages	Running Speed	Motor			
	PSIG		BAR		PSIG	BAR	CFM	M³/H	DGE/H	DLE/H	GGE/H			GLE/H	RPM	HP	KW
	MIN	MAX	MIN	MAX	MAX	MAX											
C26.2	10	15	0.7	1	5000	345	200	340	86	325.5	100	378.5	4	1500	150	110	
C26.10	45	65	3.1	4.5	5000	345	360	612	154	583	180	681.4	4	1500	175	132	
C26.12	90	145	6.2	10	5000	345	425	722	182	689	213	806.3	4	1500	175	132	
C26.13	150	215	10.3	15	5000	345	440	748	189	715.4	220	832.8	4	1500	175	132	

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.

BAUER C52 X-FILL™

CNG Systems for Large Fleets

- › 250-350 HP (185-260 KW)
- › 340-875 SCFM (578-1487 M³/HR)
- › 5000 PSIG (345 Bar) PSIG max discharge pressure



SYSTEM FOOTPRINT

- › 297.6" L X 99.6" W X 117" H
(297.6mm x 2529.84mm x 2971.8mm)

TECHNICAL DATA

Model	Inlet Pressure				Final Pressure		Capacity					Number of Stages	Running Speed	Motor			
	PSIG		BAR		PSIG	BAR	CFM	M³/H	DGE/H	DLE/H	GGE/H			GLE/H	RPM	HP	KW
	MIN	MAX	MIN	MAX	MAX	MAX											
C52.0	1	5	0.07	0.34	5000	345	340	578	146	553	170	644	4	1500	250	185	
C52.2	10	15	0.7	1	5000	345	405	688	174	659	203	768	4	1500	300	220	
C52.10	45	65	3.1	4.5	5000	345	715	1215	306	1158	358	1355	4	1500	350	260	
C52.12	90	145	6.2	10	5000	345	850	1445	364	1378	425	1609	4	1500	350	260	
C52.13	150	215	10.3	15	5000	345	875	1487	375	1420	438	1658	4	1500	350	260	

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.

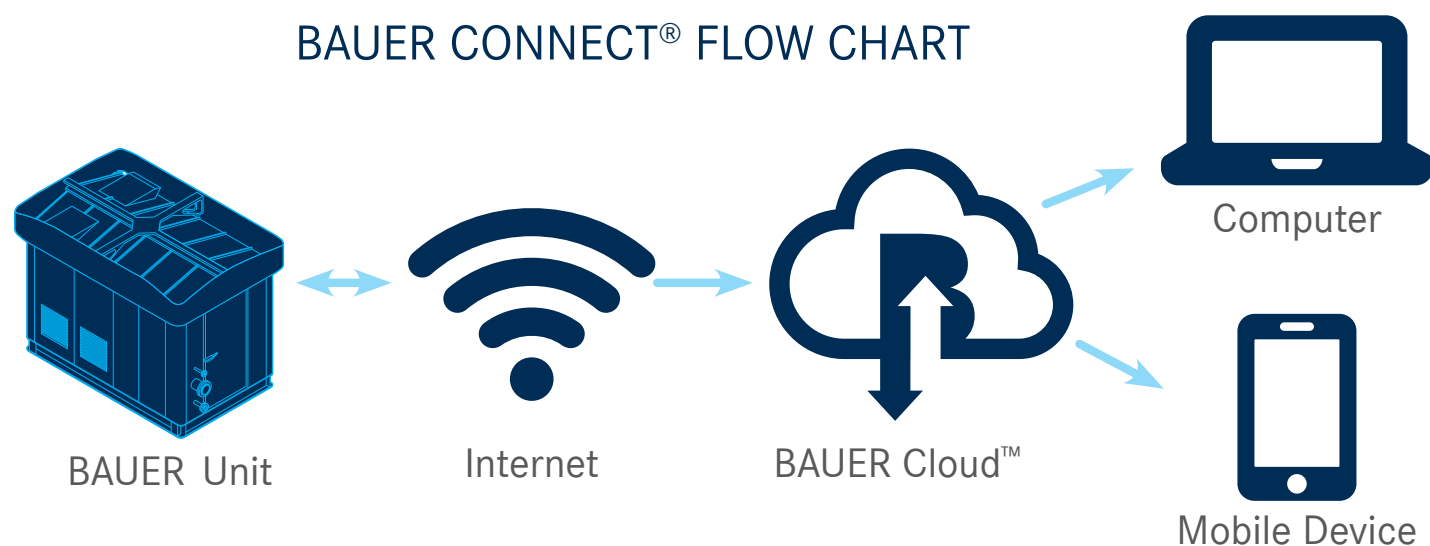


BAUER CONNECT® REMOTE TELEMETRY

BAUER CONNECT® REMOTE TELEMETRY AND CONTROL VIA MOBILE APP

BAUER CONNECT® is an app-based and internet based IoT solution that allows BAUER customers to remotely monitor the performance as well as control the entire BAUER system through any wireless mobile device or computer anywhere, anytime. The key features of this IoT solution, allow customers to increase efficiency and productivity, save time, do more with fewer resources, have lower operational costs and have total flexibility with a solution tailored specifically for them. BAUER CONNECT® - Connection that matters

BAUER CONNECT® FLOW CHART



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.

- › Live connection and control of all units no matter the location(s)
- › Save time and money with remote monitoring
- › Secure log-ins - Only approved team members can access and control your compressor system

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.

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.

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.

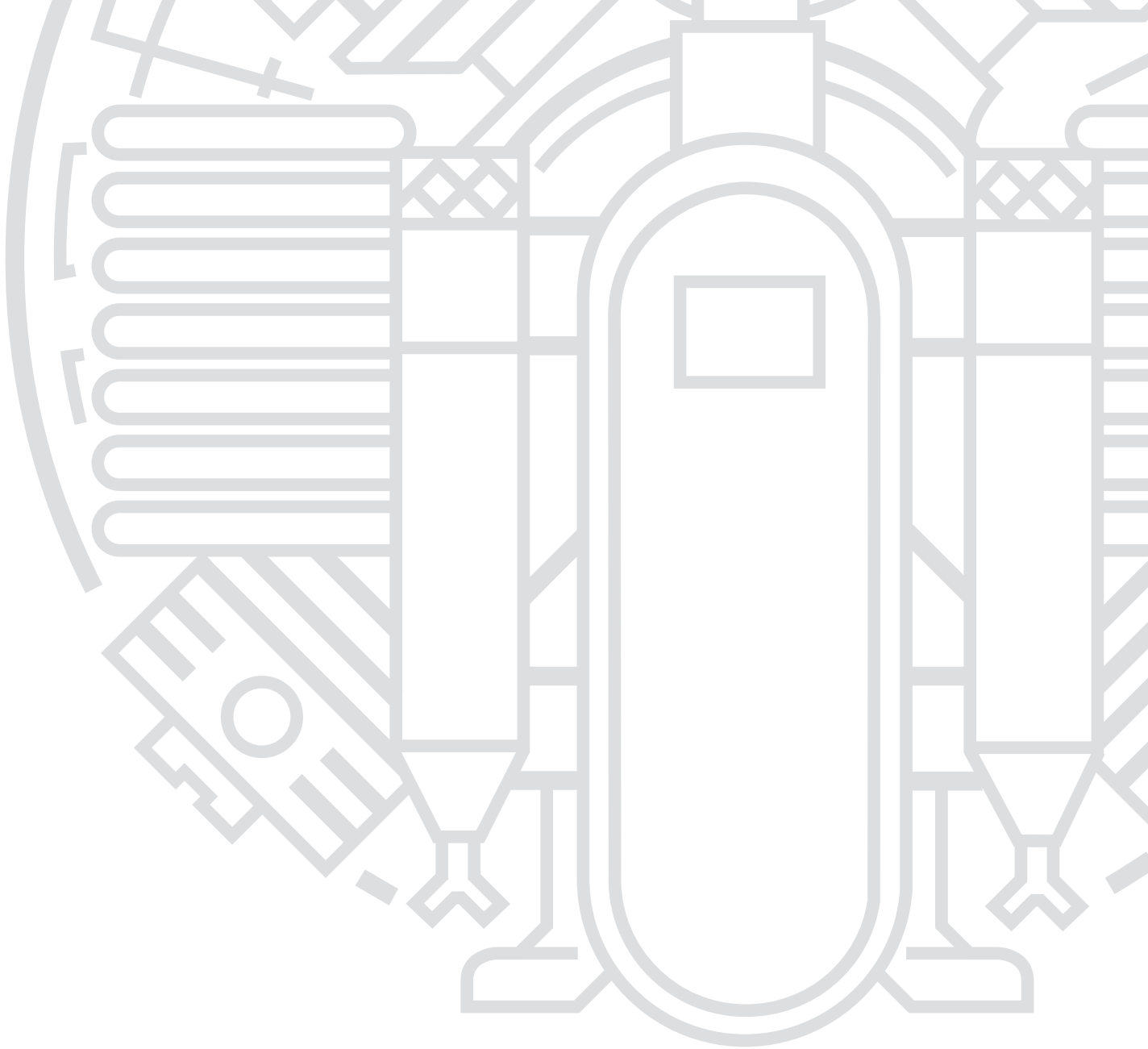
- › Quick reference of all of your units at your fingertips
- › Does not require password validation every time app is used
- › Beneficial tool, that allows for monitoring without the ability to control the unit(s)
- › Dashboards can be customized to specific customer needs

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.



To sign up and register go to Signup.Bauer-Connect.com



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Subject to technical changes