

BAUER SNG™ 3

Stationary On-Demand Nitrogen Generation
System for High Pressure Applications up to
6000 PSIG





› Oil & Gas



› Pipeline



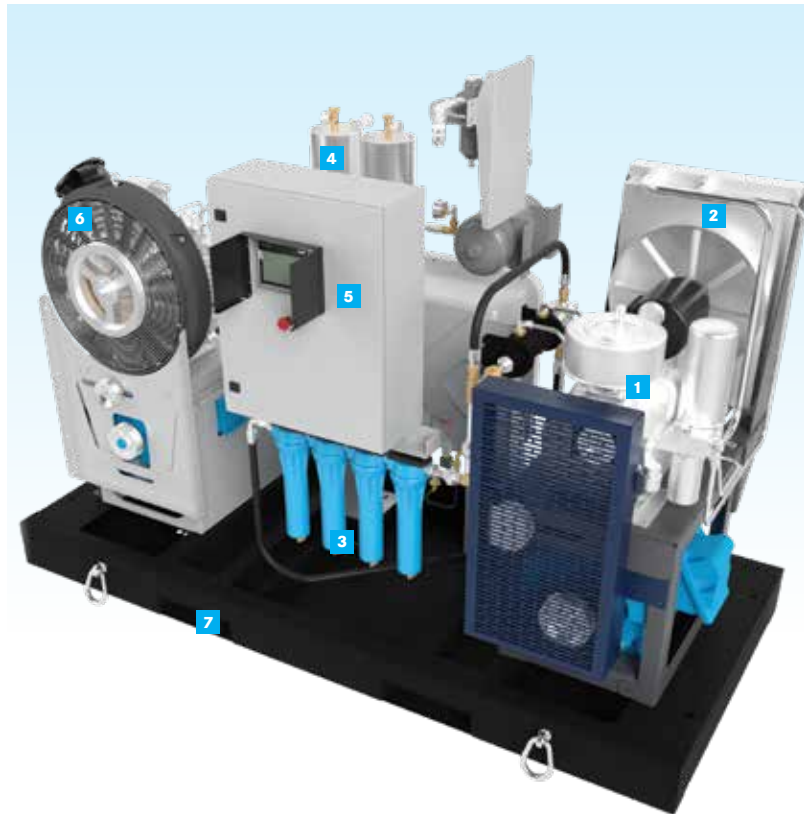
› Plastic Injection Molding



› Industrial

VERSATILE SOLUTION FOR A VARIETY OF APPLICATIONS

Nitrogen is a dry, inert gas which is used in a variety of applications such as vessel inerting (to reduce explosion hazards), instrument air for pneumatic actuation, modified atmosphere packaging, plastic injection molding, process gas and any other application which requires a high-purity inert gas. With thousands of units in operation worldwide, Bauer nitrogen systems provide a hassle-free, cost effective onsite-on-demand nitrogen generation solution as an alternative to expensive merchant gas.



- 1 BAUER ROTOCOMP® LOW PRESSURE FEED AIR COMPRESSOR
- 2 COMBINATION AIR/OIL AFTERCOOLER
- 3 MEMBRANE PREFILTRATION SYSTEM (Particulate, Moisture & Hydrocarbon)
- 4 NITROGEN GENERATION MEMBRANE MODULE
- 5 NEMA 4 ELECTRIC CONTROL CABINET WITH INTEGRATED TOUCH SCREEN HMI
- 6 BAUER HIGH PRESSURE BOOSTER COMPRESSOR
- 7 PRECISION FORMED POWDER-COATED STEEL SKID WITH FORKLIFT POCKETS AND LIFTING EYES

STANDARD SCOPE OF SUPPLY

- › Self-contained, fully-integrated turnkey nitrogen generation system with high-pressure booster for discharge pressures up to 6,000 PSIG.
- › Engineered to operate reliably in any industrial setting, indoors or outdoors.
- › Feed air compressor: Bauer Rotocomp® single-stage air cooled, oil-injected, continuous-duty rotary screw compressor.
- › 3-stage membrane pre-filtration system.
- › High durability membrane air separators.
- › High Pressure Booster: Bauer BK15/18/ 22 range four stage air-cooled, oil-lubricated high pressure reciprocating compressor.
- › TEFC electric motors for each compressor with v-belt drive, belt guard and belt tensioning device.
- › Automatic condensate drain with collector (includes switch for high condensate level).
- › UL® labeled Control Panel with PLC controller. Includes touchscreen interface (for operation, maintenance and troubleshooting).
- › In-line percent oxygen analyzer to determine nitrogen purity.
- › Pressure sensors for oil and final product pressure.
- › Wide ambient operating temperature range 40° to 113°F (4.4° to 45°C).
- › 24-month warranty, lifetime support guarantee.

KEY FEATURES AND BENEFITS

- › **Uninterrupted N₂ Supply:** Point-of-use nitrogen generation provides an alternative to external sources of nitrogen by eliminating potential supply chain interruptions and the logistical hassles associated with merchant gas.
- › **Cost Savings:** Point-of-use nitrogen systems are a cost-effective alternative to merchant gas which require long-term contracts and are associated with long-term locked-in rates.
- › **Personnel Safety:** Point-of-use nitrogen is a safer alternative by eliminating the need of shuttling heavy merchant gas bottles back and forth between supplier and point of use.
- › **Robust Design:** All BAUER on-demand nitrogen systems are designed to operate continuously in all manner of severe ambient conditions indoors or outdoors.
- › **Superior Reliability:** All BAUER systems are designed and manufactured to provide BAUER's legendary reliability and performance with lowest overall lifecycle cost. In addition, every system is backed by Bauer's two (2) year all-inclusive warranty and lifetime support.

AVAILABLE OPTIONS

- › Weatherproof sound attenuated enclosure for compressor and membrane module
- › Marine / offshore special paint
- › Class I, Div II for hazardous zone classification
- › Two-stage intake filter for high-dust environments
- › CE compliance
- › Remote N₂ purity monitoring through % oxygen analyzer
- › Modular high-pressure storage cylinders (UN ISO or ASME) with integrated high-flow pressure regulation panel
- › Bauer Connect™ remote telemetry



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

BAUER CONNECT™ REMOTE TELEMETRY AND CONTROL VIA MOBILE APP

Bauer Connect™ is an App-based IOT solution which allows Bauer customers to remotely monitor the performance as well as control the entire Bauer system through any wireless mobile device or computer anywhere, any time.

The Bauer Connect™ App will provide “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 are notified immediately, thus allowing for pro-active intervention in situations which could potentially be detrimental to the Bauer system as well as the customer's operation.

The remote HMI function allows factory trained technical personnel to remotely control the Bauer system via the Bauer Connect™ App with the exact same functionality as if one were standing in front of the actual unit. Bauer Connect™ will also display a real-time graphical display of the entire system (SCADA view) as well as any historical data via a multitude of standard and customized reports. Other important information such as system operating instructions, maintenance schedules and parts information can also be accessed via the Bauer Connect™ App.



TECHNICAL DATA

Model	Nitrogen Flow at 99.5% Purity ²		Nitrogen Flow at 99.0% Purity ²		Nitrogen Flow at 98.0% Purity ²		Motor	
	SCFM ¹	M ³ /HR	SCFM ¹	M ³ /HR	SCFM ¹	M ³ /HR	HP	KW
5000 PSIG (345 BAR)								
SNGIII-20410	7	11.9	11	18.7	14	23.8	30	22
SNGIII-30615	16	27.2	19	32.3	24	40.8	45	34
SNGIII-40815	22	37.4	24	40.8	25	42.5	55	41
6000 PSIG (414 BAR)								
SNGIII-40820	18	30.6	18	30.6	18	30.6	60	45

1) Capacity (FGD) is referenced to standard conditions. Tolerance +/- 5%.

2) Purity reflects content of O₂-free gas produced.

Dimensions and weight are approximate.

TECHNICAL DATA

Storage Pressure	Nitrogen Volume
5000 PSIG	
ASME	5000 SCF
UNI/ISO	5470 SCF
6000 PSIG	
ASME	5700 SCF
UNI/ISO	5925 SCF

For 12 Bottle Rack

**LEARN MORE ABOUT OUR OIL AND GAS SOLUTIONS AT:
www.BauerOilandGas.com**



GLOBAL SUPPORT



SINGLE SOURCE RESPONSIBILITY



LOW COST OF OWNERSHIP



LIFECYCLE PERFORMANCE

FOR MORE INFORMATION ABOUT OUR CUSTOMER SUPPORT PLEASE VISIT: www.BauerCustomerSupport.com

BAUER COMPRESSORS, INC.

1328 Azalea Garden Road
 Norfolk, VA 23502
 Tel. +1 (757) 855-6006
 Fax +1 (757) 857-1041
www.BauerComp.com



1106.10.19

Subject to technical changes