

BAUER SNG™ III

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





› Industrial



› Plastic Injection Molding



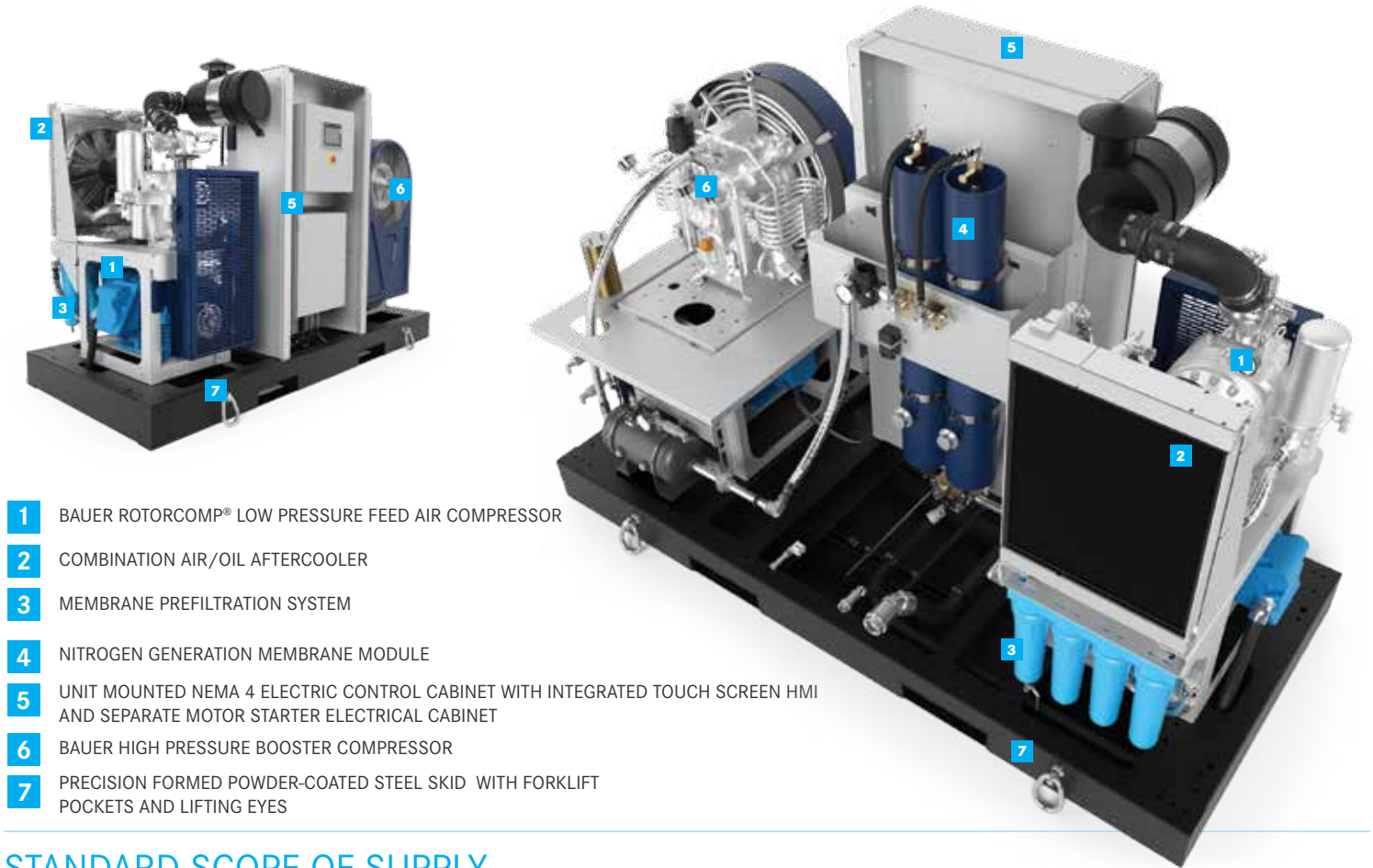
› Oil & Gas



› Vessel Inerting

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 and corrosion), instrument air for pneumatic actuation, high-pressure component testing, 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 ROTORCOMP® LOW PRESSURE FEED AIR COMPRESSOR
- 2 COMBINATION AIR/OIL AFTERCOOLER
- 3 MEMBRANE PREFILTRATION SYSTEM
- 4 NITROGEN GENERATION MEMBRANE MODULE
- 5 UNIT MOUNTED NEMA 4 ELECTRIC CONTROL CABINET WITH INTEGRATED TOUCH SCREEN HMI AND SEPARATE MOTOR STARTER ELECTRICAL CABINET
- 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 with standard discharge pressures of 5,000 or 6,000 PSIG.
- › Engineered to operate reliably under continuous duty in any industrial setting including offshore/marine applications, indoors or outdoors (with optional enclosure and accessories).
- › Feed air compressor: BAUER Rotocomp® single-stage air cooled, oil-injected, continuous-duty rotary screw compressor.
- › 2-stage heavy-duty air inlet filter.
- › 4-stage membrane pre-filtration system. (Particulate, Moisture Coalescing & Hydrocarbon)
- › Integrated membrane air pre-heater system
- › High durability hollow fiber membrane air separators.
- › High Pressure Booster: BAUER multi-staged, 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 port.
- › 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 120°F (4.4°to 49°C).
- › 460/480 Volts 3-phase AC, 60Hz.
- › 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.

SNG™ III SYSTEM FOOTPRINT

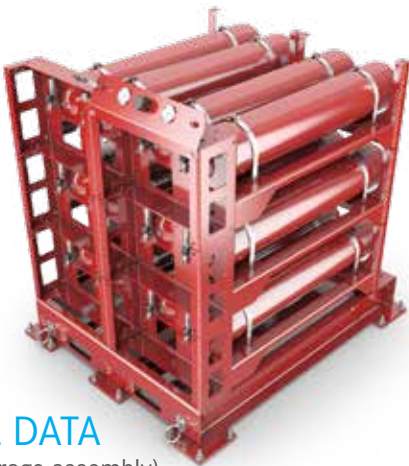
- › 108"(w) x 53"(d) x 81"(h)
2,743mm (w) x 1,346mm(d) x 2,057mm(h)
- › Approximate weight: 5,000 lbs (2,268 kgs)

AVAILABLE OPTIONS

- › Weatherproof enclosure
- › Sound attenuation
- › BAUER special marine/offshore powder coat paint process
- › Class I, Div II for hazardous zone classification
- › Pressure regulator to regulate down from 5000 or 6000 PSIG
- › CE compliance
- › ABS type approval for shipboard/marine applications
- › Mounting skid for shipboard installation
- › Modular high-pressure storage cylinders (UN/ISO or ASME) with integrated high-flow pressure regulation panel
- › Specifc voltages: 380/400/415/50Hz
230/380/575 60Hz
- › BAUER CONNECT® Remote Telemetry and Control (IoT Solution See back cover)

HIGH-PRESSURE STORAGE

Optional high-pressure nitrogen storage assembly configured in increments of two (2) high-pressure storage vessels. Assembly of two (2) to twelve (12) high pressure UN/ ISO or ASME storage vessels comes with integrated high-flow pressure regulator.



TECHNICAL DATA

(High-pressure storage assembly)

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

*For 12 Storage Vessel Rack

SNG™ III TECHNICAL DATA

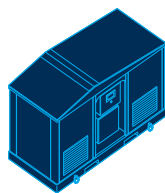
Model	Feed Air Compressor		Booster Compressor		Nitrogen Flow at 98.% Purity ²		Nitrogen Flow at 99.% Purity ²		Nitrogen Flow at 99.5% Purity ²			
	Model	Motor	Model	Motor								
		HP	KW		HP	KW	SCFM ¹	M ³ /HR	SCFM ¹	M ³ /HR	SCFM ¹	M ³ /HR
5000 PSIG (345 BAR)												
SNGIII-3	EVO3-NK	25	18.6	BK12.2	10	7.5	16	27.2	12	20.3	9	15.2
SNGIII-6	EVO6-NK	50	37.3	BK15.3	15	11	-	-	27	45.8	19	32.2
6000 PSIG (414 BAR)												
SNGIII-6/6	EVO6-NK	50	37.3	IK18.1	20	15	-	-	-	-	19	32.2

Stated performance based on ambient Temperature of 110°F (43°C), Elevation: Sea Level, and RH of 65%.

BAUER CONNECT® REMOTE TELEMETRY AND CONTROL



BAUER CONNECT® FLOW CHART



SNG™ III Unit



Internet



BAUER Cloud™



Computer



Mobile Device

BAUER CONNECT® REMOTE TELEMETRY AND CONTROL VIA MOBILE APP

The entire line of SNG™ high-pressure nitrogen generation systems are available with optional BAUER CONNECT®

BAUER CONNECT® is an App-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



Available on



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

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

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Subject to technical changes