



Complete Package of NITROBERG®500, Plug and Play

Installation of Plant on a common metal skid frame

Experience effortless operation with our Plug and Play system, providing a constant nitrogen supply and accurate purity measurement. Enjoy immediate savings with our low-maintenance, compact design, featuring the longest lifetime carbon molecular sieve materials. Save on energy costs with reduced compressed air needs, made in Germany for reliability and quality assurance.

Stickstoff Reinheit / Nitrogen Purity	97%	98%	99%	99.5%	99.9%	99.99%	99.995%	99.999%
Kapazität / Capacity (Nm ³ /h)	17.3	14.9	12.6	9.2	5.1	2.8	2.1	1.4
Druckluftbedarf / Compressed Air (Nm ³ /h)	39.8	34.3	32.8	26.7	18.4	14.3	12.0	9.7

Design pressure	11 bar	Electrical connection	230V 50Hz / 110V 60Hz
Operating pressure	7 bar	Power consumption	150 W
Noise level	55 max 85 dB (A)	Ambient temperature	+5 to +40 °C

Compressed air technology achievement according to ISO8573-1

We use compressed air for so many applications such as mineral and cement industry, Automobile industry, Steel plants, Chemicals, Pharmaceuticals, Food & Beverage, Semiconductor & Electronics, Medical Breathing Air and also O₂ or N₂ PSA generators that depends on Applications we need different quality that we should the contaminates (particle, water, Oil) from compressed air.

compressed air - quality in accordance with ISO 8573-1 BERG: ISO8573-1-4-1*						
Class	max. amount particles p.m ³ at size ≤0,1μ	max. amount particles p.m ³ at size ≤0,1μ - 0,5μ	max. amount particles p.m ³ at size ≤0,5μ - 0,1μ	max. amount particles p.m ³ at size ≤1μ - 5μ	dew point and water content	overall oil content
0	---	<100	0	0	-70°C < 0,003g/m ³	< 0,01mg/ m ³
1	---	100	1	0	-70°C ≤ 0,003g/m ³	≤ 0,01mg/ m ³ *
4	---	---	---	1.000	3°C ≤ 6g/ m ³	≤ 5mg/ m ³

Scope of supply

Pos.	Equipment Description	Quantity
1	N ₂ Generator NITROBERG®500 with Purity and Pressure sensor	1
2	Compressed Air Filter PUREBERG® F 02 WW water separator	1
3	Compressed Air Dryer, DRYBERG®RF02 (adsorption DRYBERG®AD35 Optional)	1
4	Compressed Air Filter line class 1.-.1 acc. ISO8573-1 PUREBERG® Z 04 oil free package	1
5	Compressed Air Receiver 90 lit 11 bar	1
6	Nitrogen Product Vessel 90 lit 11 bar	1
7	Metal Frame Skid 200cm x 100 cm with all connections pipe, electrical wiring etc.	1
8	Air Compressor (Stationary Screw Compressor KOMPBERG® BSDF11)	optional

PRODUCT Number: 1020222550

BERG GaseTech GmbH

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Management System
ISO 9001:2015

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ID 9000018531



Dimension: 200cm x100cm x 180cm

200 cm

Weight: 576kg

Certifications, Standards, Codes and Regulations

All work, materials and equipment covered by this quotation shall comply with the applicable codes, regulations and standards of the Federal Republic of Germany. The applicable codes and standards are as listed: DIN-Standards, PED pressure Equipment Directive, VDI/VDE-Regulations, IEC-Standards, UVV-Regulations. Other standards codes and regulations are also possible after agreement e. g. ASME, ATEX, GL, BV or others.

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Purity sensor (Include)



Scope	Include
Type	O2 / N2 Sensor
Model	As per desired purity
Measurement	Oxygen purity
Location	Outlet PSA Oxygen Generator
Range	0 - 96%
Display	Generator touch control panel

Pressure sensor (Include)



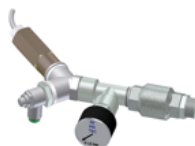
Scope	Include
Type	O2 / N2 pressure Sensor
Model	1009700262
Measurement	Pressure
Location	Outlet PSA Oxygen Generator
Range	0 - 100%
Display	Generator touch control panel

Flow and consumption meter (Optional)



Scope	Exclude
Type	Nitrogen Flow Meter
Measuring range	0-10.000 Nm ³ /h (as per PSA)
Reading	Outlet O2 gas flow
Display	Generator touch control panel

Compressed Air Temperature sensor (Optional)



Scope	Exclude
Type	Temperature Sensor
Measuring range	+5°C to +100°C
Reading	Temperature of air
Display	Generator touch control panel

Pressure dew point sensor (Optional)



Scope	Exclude
Type	Pressure Dew Point Meter
Measuring range	+50°C to -20°C
Pressure	16 barg
Display	Generator touch control panel

EC-Declaration of Conformity, Annex II A of Pressure Equipment Directive (97/23/EC)

- The PSA NITROGEN Package is subject to appropriate and professional connection of power and supply units, and observance of all required safety devices, and carries CE, fulfills the safety- and health requisitions of the following EC Directives:
- 2006/42/EG Machinery Directive
- 87/404/EC Simple pressure vessels
- 2004/108/EG Electromagnetic compatibility
- Utilized National Guidelines and technical specifications
- BGV A1 Principles of prevention
- BGV A3 Electric machines and equipment
- Surveillance of QM-System: TÜVRheinland

After sales services and Spare parts

We provide service worldwide, as we have representatives in many countries of the world. If necessary, we can reach you within a very short time period from one of our stations through our national and international distributor and agent network.

Aftersales services such as supervised installation, commissioning, start-up and onsite operator training by BERG engineers or through our worldwide network of trained and authorized distributors is available (can be quoted upon request).

Maintenance, repair, troubleshooting & ZERO downtime service contracts

Guarantee the smooth operation of your gas plant. BERG's service department has sophisticated technical service worldwide. Service contracts can increase the warranty period, so please inquire for details. At the BERG Kompressoren GmbH, Germany, there are held advanced training courses throughout the year for the training, maintenance and troubleshooting of products, as well as for our worldwide distributors.

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