BETTER THROUGH QUALITY

MADE IN GERMANY

Complete Package of NITROBERG®800, Plug and Play

Stickstoff Reinheit / Nitrogen Purity	97%	98%	99%	99.5%	99.9%	99.99%	99.995%	99.999%
Kapazität / Capacity (Nm3/h)	42.8	34.4	28.4	24.8	16.4	8.8	6.8	4.8
Druckluftbedarf / Compressed Air (Nm3/h)	98.4	79.1	73.8	71.9	55.8	40.5	35.4	30.7

Complete Plant installation on a common metal skid frame

BERG nitrogen generation systems are fully assembled on a robust steel skid frame, providing a true Plug & Play solution for fast commissioning and reliable operation. The integrated package ensures a continuous nitrogen supply with precise purity monitoring for consistent gas quality. Our compact, low-maintenance design uses high-performance Carbon Molecular Sieve (CMS) with extended service life, reducing long-term operating costs. Optimized compressed air consumption lowers energy usage, while German engineering and manufacturing guarantee maximum reliability and durability.

Design pressure	11 bar	**Electrical connection**	230V 50Hz / 110V 60Hz
Operating pressure	7-8 bar	**Power consumption**	300W
Noise level	55 max 85 dB(A)	**Ambient temperature**	+5 to +40 °C

Compressed air technology achievement according to ISO8573-1

Compressed air is used in many industries and for O_2/N_2 PSA generators. Depending on the application, different purity levels are required, making the removal of particles, water, and oil essential in accordance with ISO 8573-1.

compressed air - quality in accordance with ISO 8573-1 BERG PSA Generators requirement quality of compressed air as minimum: Cass 1-4-1					
Class	max. amount particles p.m³ at size ≤0,1µ - 0,5µ	max. amount particles p.m³ at size ≤0,5µ - 0,1µ	max. amount particles p.m³ at size ≤1µ - 5µ	dew point and water content	overall oil content
0	<100	0	0	-70°C < 0,003g/ m³	< 0,01 mg/m³
1	100	1	0	-70°C ≤ 0,003g/ m³	≤ 0,01 mg/m³
4	---	---	1.000	3°C ≤ 6g/ m³	≤ 5 mg/m³

Scope of supply

Pos.	Equipment Description	Quantity
1	N2 Generator **NITROBERG®800** with Purity and Pressure sensor	1
2	Compressed Air Filter **PUREBERG® F 03 WW** water separator	1
3	Compressed Air Dryer, **DRYBERG®AD70** (alternative **DRYBERG®RF04**)	1
4	Compressed Air Filter line class 1.-.1 acc. ISO8573-1 **PUREBERG® Z 150 V** oil free package	1
5	Compressed **Air Receiver 350 lit** 11 bar	1
6	Nitrogen **Product Vessel 250 lit** 11 bar	1
7	Oil water separator **Öwamat 10**	1
8	**Metal Frame Skid 200cm x 200 cm** with all connections pipe, electrical wiring etc.	1
9	Recommend Air Compressor (Screw Compressor **KOMPBERG® BSDKF 11 or 13**)	NOT Included

PRODUCT Number: 1020222850

BERG GaseTech GmbH
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ISO13485
CE2912,
Module B/D for PSA generators
Module B for plug and play unit

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Purity sensor (Include)

Scope	Include
Type	Zirconia O2 Sensor - 102
Model	SENZ-TX 02-662 (02-661)
Measurement	Nitrogen purity
Location	Outlet PSA Nitrogen Generator
Range	0-25 % (0 – 1000 ppm)
Display	Generator touch control panel

Pressure sensor (Include)

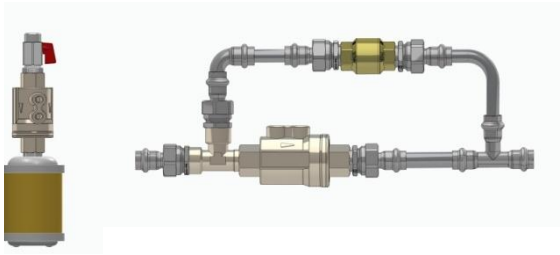
Scope	Include
Type	O2 / N2 pressure Sensor
Model	1009700262
Measurement	Pressure
Location	Outlet PSA Nitrogen Generator
Range	0 – 10bar
Display	Generator touch control panel

Inlet pressure sensor (Optional)

Scope	Exclude
Type	O2 / N2 pressure Sensor
Model	1009700262
Measurement	Pressure
Location	Inlet PSA Nitrogen Generator
Range	0 – 10bar
Display	Generator touch control panel

Automatic Purity control System (Optional)

Advanced automatic purity control system with built-in purge function and integrated outlet valve for reliable performance . (vents gas below set point purity)



Flow and consumption meter (Optional)

Scope	Exclude
Type	Nitrogen Flow Meter
Model	VA525
Measurement	Outlet N2 gas flow
Location	Outlet from Nitrogen Tank
Range	0 – 1195 m3/h
Display	Generator touch control panel

Pressure dew point sensor (Optional)

Scope	Exclude
Type	Pressure Dew Point Meter
Model	FA 515
Measuring	-80.....20°C ,-20.....50°C
Location	Inlet of PSA Nitrogen Generator
Display	Generator touch control panel

Temperature sensor (Optional)

Scope	Exclude
Type	TR36
Temperature	-30 ... +150°C
Output signal	4... 20mA, 2-wire
Location	Inlet PSA Nitrogen Generator
connection	Screw-in pin G1/2 B

Signal tower (Optional)

Scope	Exclude
Type	Compact 37
Model	K37 Connector EM 24VAC/DC GN/YE/RD
Operating voltage	24V DC
Location	Top of Control panel
Range	0 – 1195 m3/h
Display	Generator touch control panel

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EC-Declaration of Conformity, Annex II A of Pressure Equipment Directive

- The BERG PSA NITROGEN Package is subject to appropriate 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:
- 2014/68/EU PED – Pressure Equipment Directive, Modul D and Modul B
- 2006/42/EG Machinery Directive
- 2014/29/EU Simple pressure vessels
- 2014/35/EU *Low Voltage Directive*
- Utilized National Guidelines and technical specifications
- Surveillance of Quality Management System: ISO13485:2016 and ISO9001:2015

After sales services and Spare parts

We provide worldwide service through our global network of representatives, distributors, and Partners.
Aftersales support including supervised installation, commissioning, start-up, and operator training can be provided by BERG engineers or authorized partners and is available upon request.

Maintenance, repair, troubleshooting & ZERO downtime service contracts

Ensure reliable operation of your gas plant with BERG's global technical service network. Service contracts can extend the warranty period (details available upon request). BERG Germany, also offers regular training programs for maintenance, troubleshooting, and distributor support.

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.

Overview of a sample references

Dozens of skid-mounted nitrogen and oxygen plug-and-play systems successfully installed in Germany and across Europe, Asia and South America.

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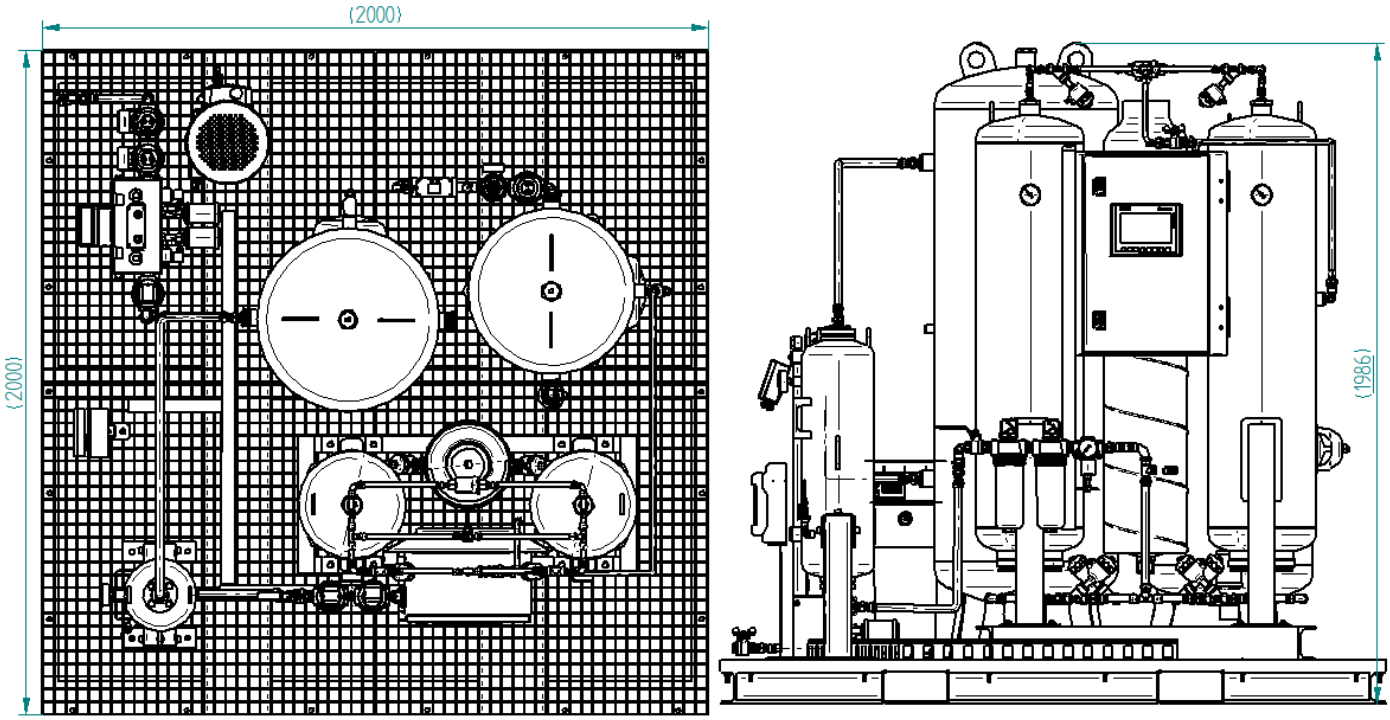

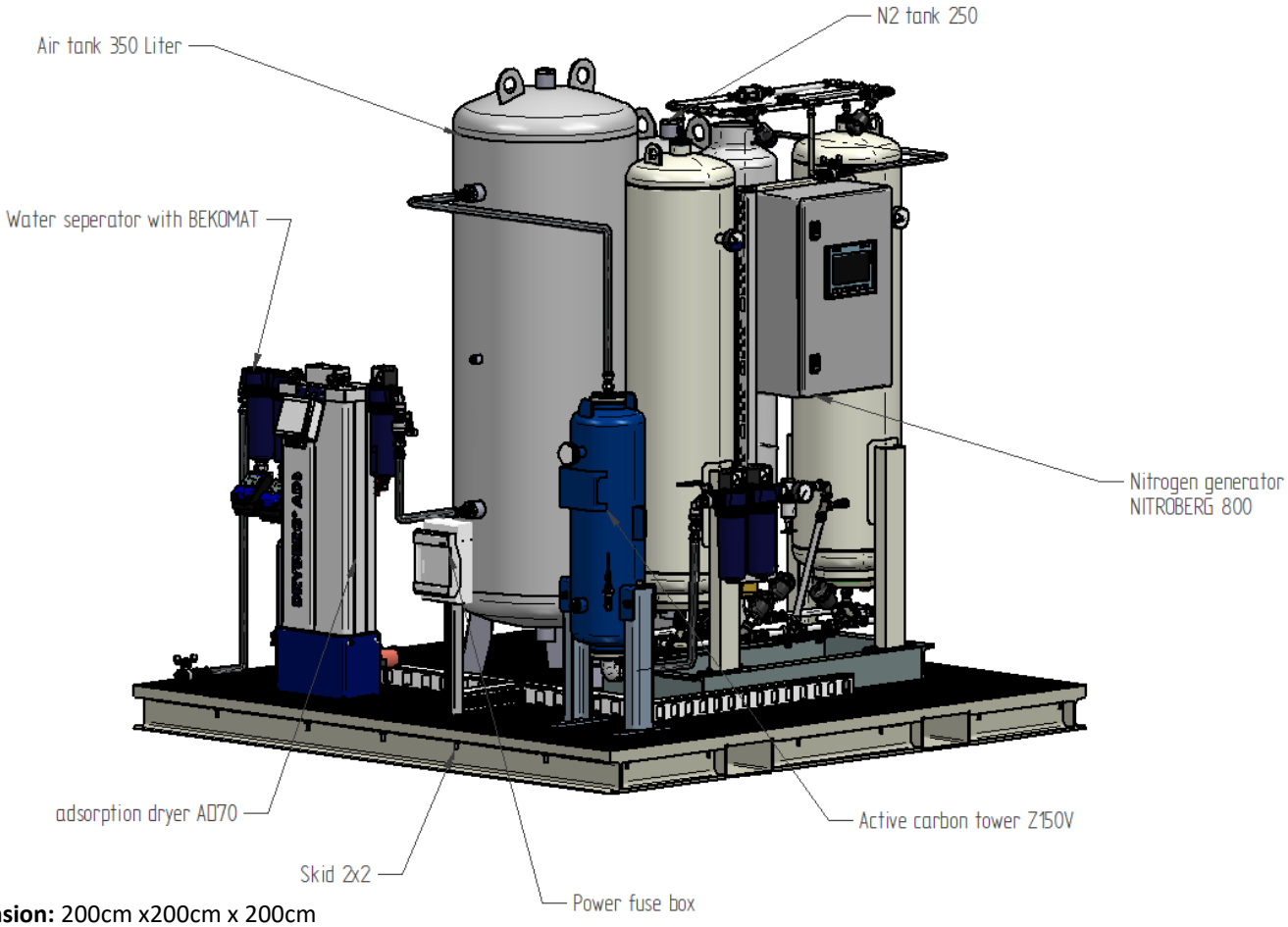

Dimension: 200cm x200cm x 200cm

Net Weigt: 1.275kg

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