NITROGEN GENERATION SYSTEMS

Atlas Copco

All-in-one Nitrogen Skid (40 bar / 350 bar)

NGP+ nitrogen generator

- Automatically regulates requested nitrogen pressure and purity
- Self-protective monitoring of the feed air temperature, pressure and dew point
- High-quality absorbent
- Automatic, fast start-up eleminates risk of overflow and absorbent damage
- Stand-by mode for energy savings

LV air and nitrogen receivers

- Storage tank to cover fluctuating nitrogen demand

UD+ filters

- Nautilus two-step coalescing filtration technology
- 40% pressure drop reduction compared to standard filters
- Extremely low oil carry-over
- Filter media wrapped around the filter eliminates risk of cracks
- Double drainage layer

GA VSD+ compressor

- VSD+ Permanent Magnet motor reduces energy use on average 50%
- Efficient fan motor (ERP 2015) decreases electricity consumption and noise
- Upright design with small footprint
- Few components for an increased uptime
- Direct drive with fewer parts, no gears or belts, no shaft seal

LB booster

- Silent from the core: optimal balancing and use of special vibration dampers
- Low Specific Energy Requirement: direct driven technology eliminates friction losses
- Low electrical peaks with soft start technology
- Low mechanical losses: half elastic motor shaft coupling minimizes torque peaks
- Booster design based on proven LT high-stage system

NEW: THE ALL-IN-ONE ATLAS COPCO NITROGEN SKID

Atlas Copco proudly introduces a new all-in-one concept in nitrogen generation. The Atlas Copco Nitrogen Skid comes with a GA VSD+ compressor, an LB booster, a NGP+ nitrogen generator, air and nitrogen receivers, dryers and filters, all integrated into one compact and pre-commissioned skid. It is a true plug-and-play solution that delivers cost savings and nitrogen supply independence for complete peace of mind. All components are built to Atlas Copco quality and energy efficiency standards. They are tested to work together for optimal performance and reliability. Two models are available: a 40-bar version for direct use and a 350-bar one that also allows for bottling.

FEATURES AND BENEFITS

Small footprint

- All components are fitted onto one compact skid
- Reduced compressor footprint thanks to VSD⁺ design

Supreme efficiency

- Includes the most energy efficient components as standard. VSD⁺ and NGP⁺ offer an average of 50% cost savings, UD⁺ filters up to 40% pressure drop reduction
- High-pressure version allows for storage and thus compressor downsizing. This can generate up to 20% additional energy savings

Easy purchase, installation and operation

- 8 models available to meet your needs
- No compressor and booster sizing or complicated calculations needed
- Plug-and-play solution

Increased reliability

- 100% designed and manufactured by Atlas Copco
- All components are pre-commissioned and tested to work as one system
- Your entire nitrogen generation system is covered by one service agreement

STILL BUYING NITROGEN?

Why buy nitrogen when you can generate and store your own? Atlas Copco nitrogen generation offers the sustainable and cost-efficient alternative to pre-filled cylinders or liquid supply. The Nitrogen Skid provides an independent source of nitrogen, when you need it and at the lowest cost to eliminate ordering, transportation and delivery expenses.

YOUR OWN NITROGEN SUPPLY & STORAGE

The 350-bar Atlas Copco Nitrogen Skid allows you to fill the skid-mounted storage tank or cylinders to create your your own supply. This can serve as your nitrogen back-up supply, but also allows you to downsize your system in case of fluctuating demand. Catering to peak requirements with your own pre-filled bottles rather than with a higher capacity generation system offers significant savings.

LASER CUTTING

Laser cutting requires a reliable supply of high-pressure nitrogen. With its energy-efficiency, ease of use and low small footprint, the Atlas Copco 350-bar Nitrogen Skid is the ideal solution.

TECHNICAL SPECIFICATIONS

40-bar N2 skid	N2 capacity @ 99.9%	N2 capacity @ 99.99%	Compressor	Filters	Air receiver	N2 generator	N2 receiver	N2 buffer	N2 booster	HP filters
1	5 Nm³/h	3 Nm³/h	GA7VSD⁺FF	UD25⁺ & QDT20	LV516	NGP10⁺	LV516	LV516	15 hp 40 b	DD & PD 50HP37
2	13 Nm³/h	8 Nm³/h	GA7VSD⁺FF	UD25⁺ & QDT20	LV516	NGP25⁺	LV516	LV516	15 hp 40 b	DD & PD 50HP37
3	25 Nm³/h	15 Nm³/h	GA11VSD⁺FF	UD45⁺ & QDT45	LV1016	NGP50⁺	LV1016	LV516	15 hp 40 b	DD & PD 50HP37
4	50 Nm³/h	32 Nm³/h	GA22VSD⁺FF	UD100⁺ & QDT95	LV1516	NGP100⁺	LV1516	LV516	15 hp 40 b	DD & PD 50HP37

350-bar N2 skid	N2 capacity @ 99.9%	N2 capacity @ 99.99%	Compressor	Filters	Air receiver	N2 generator	N2 receiver	N2 buffer	N2 booster	HP filters
5	5 Nm³/h	3 Nm³/h	GA7VSD⁺FF	UD25⁺ & QDT20	LV516	NGP10⁺	LV516	LV516	10 hp 350 b	DD & PD 350 b
6	13 Nm³/h	8 Nm³/h	GA7VSD⁺FF	UD25⁺ & QDT20	LV516	NGP25⁺	LV516	LV516	10 hp 350 b	DD & PD 350 b
7	25 Nm³/h	15 Nm³/h	GA11VSD⁺FF	UD45⁺ & QDT45	LV1016	NGP50⁺	LV1016	LV516	15 hp 350 b	DD & PD 350 b
8	50 Nm³/h	32 Nm³/h	GA22VSD⁺FF	UD100⁺ & QDT95	LV1516	NGP100⁺	LV1516	LV516	2x 15 hp 350 b	DD & PD 350 b

Atlas Copco

LLOYD'S REGISTER · LRQA
ISO 9001 · ISO 14001
OHSAS 18001

www.atlascopco.com