



# NITROGEN GENERATION SYSTEMS

Atlas Copco

## All-in-one Nitrogen Skid (40 bar / 300 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 eliminates risk of overflow and absorbent damage
- Stand-by mode for energy savings

### Nitrogen storage

(40-bar receiver or 300-bar cylinders)



### GA VSD+ compressor

- VSD+ Permanent Magnet motor reduces energy use on average 50%
- Upright design with small footprint
- Few components for an increased uptime
- Direct drive with fewer parts, no gears or belts, no shaft seal

### Nitrogen booster

(40 or 300 bar)

## 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 NGP+ nitrogen generator, air and nitrogen receivers, a booster, 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 300-bar one that also allows for bottling.

# FEATURES AND BENEFITS

## Small footprint

- All components are fitted onto one compact skid
- Compact NGP+ and VSD+ design

## Supreme efficiency

- Includes the most energy efficient components as standard. VSD+ and NGP+ technologies can offer more than 50% cost savings compared to conventional on-site nitrogen generation
- High-pressure version allows for storage and thus a smaller plant in case of fluctuating nitrogen consumption

## 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

With the 300-bar Atlas Copco Nitrogen Skid, you can fill the skid-mounted storage tank or cylinders to create 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 small footprint, the Atlas Copco 300-bar Nitrogen Skid is the ideal solution.



# TECHNICAL SPECIFICATIONS

| 40-bar N <sub>2</sub> skid | N <sub>2</sub> capacity @ 99.9% | N <sub>2</sub> capacity @ 99.99% | Compressor | Air receiver | N <sub>2</sub> generator | N <sub>2</sub> receiver | N <sub>2</sub> buffer | N <sub>2</sub> booster | HP storage   | Total installed motor power | Average power input at 99.99% |
|----------------------------|---------------------------------|----------------------------------|------------|--------------|--------------------------|-------------------------|-----------------------|------------------------|--------------|-----------------------------|-------------------------------|
| 1                          | 6 Nm <sup>3</sup> /h            | 4 Nm <sup>3</sup> /h             | GA7VSD*FF  | LV516        | NGP10*                   | LV516                   | LV516                 | 15 hp 40 b             | 500L/45 bar  | 18 kW                       | 6 kW                          |
| 2                          | 15 Nm <sup>3</sup> /h           | 9 Nm <sup>3</sup> /h             | GA7VSD*FF  | LV516        | NGP25*                   | LV516                   | LV516                 | 15 hp 40 b             | 500L/45 bar  | 18 kW                       | 9 kW                          |
| 3                          | 30 Nm <sup>3</sup> /h           | 19 Nm <sup>3</sup> /h            | GA11VSD*FF | LV1016       | NGP50*                   | LV1016                  | LV516                 | 15 hp 40 b             | 1000L/45 bar | 22 kW                       | 15 kW                         |
| 4                          | 60 Nm <sup>3</sup> /h           | 38 Nm <sup>3</sup> /h            | GA22VSD*FF | LV1516       | NGP100*                  | LV1516                  | LV516                 | 15 hp 40 b             | 1000L/45 bar | 33 kW                       | 26 kW                         |

| 300-bar N <sub>2</sub> skid | N <sub>2</sub> capacity @ 99.9% | N <sub>2</sub> capacity @ 99.99% | Compressor | Air receiver | N <sub>2</sub> generator | N <sub>2</sub> receiver | N <sub>2</sub> buffer | N <sub>2</sub> booster | HP storage          | Total installed motor power | Average power input at 99.99% |
|-----------------------------|---------------------------------|----------------------------------|------------|--------------|--------------------------|-------------------------|-----------------------|------------------------|---------------------|-----------------------------|-------------------------------|
| 5                           | 6 Nm <sup>3</sup> /h            | 4 Nm <sup>3</sup> /h             | GA7VSD*FF  | LV516        | NGP10*                   | LV516                   | LV516                 | 10 hp 300 b            | 2 hp cylinder rack  | 15 kW                       | 7 kW                          |
| 6                           | 15 Nm <sup>3</sup> /h           | 9 Nm <sup>3</sup> /h             | GA7VSD*FF  | LV516        | NGP25*                   | LV516                   | LV516                 | 10 hp 300 b            | 12 hp cylinder rack | 15 kW                       | 11 kW                         |
| 7                           | 30 Nm <sup>3</sup> /h           | 19 Nm <sup>3</sup> /h            | GA11VSD*FF | LV1016       | NGP50*                   | LV1016                  | LV516                 | 15 hp 300 b            | 12 hp cylinder rack | 22 kW                       | 18 kW                         |
| 8                           | 60 Nm <sup>3</sup> /h           | 38 Nm <sup>3</sup> /h            | GA22VSD*FF | LV1516       | NGP100*                  | LV1516                  | LV516                 | 2x 15 hp 300 b         | 16 hp cylinder rack | 44 kW                       | 36 kW                         |

