

Gas Generators

Pneumatech designs and manufactures both standard and engineered on-site gas generator products. Nitrogen and oxygen generators are available with Pressure Swing Adsorption (PSA) technology, while also membrane technology is offered for nitrogen purity levels up to 99,5%.

Pre-defined high-pressure nitrogen skids have been developed as a plug-and-play solution for various applications like laser-cutting. Our engineering department hence becomes your best partner for all kinds of special requests.

PPNG SKID -
High-pressure nitrogen skid

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Are you looking for a true plug-and-play solution that delivers on-site nitrogen at the lowest cost?

Pneumatech has developed compact and pre-commissioned skids in two pressure versions.

The 40 Bar version offers high-pressure nitrogen for direct use; with the 300 Bar version you can fill the skid-mounted cylinders to create your own supply. These bottles can serve as your nitrogen back-up supply, but also allow you to downsize your system in case of fluctuating demand. With its supreme efficiency and reliability, ease of use and small footprint, the high-pressure skid is the ideal solution for laser cutting applications.

PPNGs nitrogen generator

- ▶ Guaranteed purity
- ▶ Outstanding air factors
- ▶ Energy saving control
- ▶ Optimal control and monitoring thanks to Purelogic™ controller

4-stage filter train for guaranteed purity and reliability

- ▶ General-purpose and high-efficient oil-coalescing filters, activated carbon tower and high-efficient particle filter
- ▶ Guaranteed air quality of class 1:4:1 (according to ISO8573-1:2010) at the inlet of the nitrogen generator

Variable speed compressor with integrated refrigerant dryer

- ▶ Closely follow the air demand by automatic adjustment of the motor speed
- ▶ Direct driven transmission for outstanding energy efficiency and reliability
- ▶ Very quiet operation due to improved noise insulation
- ▶ Compact design, also thanks to integrated refrigerant dryer



Technical specifications for PPNG skid

Pneumatech variant	PPNG SKID 1	PPNG SKID 2	PPNG SKID 3	PPNG SKID 4	PPNG SKID 5	PPNG SKID 6	PPNG SKID 7	PPNG SKID 8
N ₂ Pressure	40 Bar	40 bar	40 Bar	40 Bar	300 Bar	300 Bar	300 Bar	300 Bar
N ₂ Capacity ⁽¹⁾ (m ³ /hr)	99.90%	10.5	21	42	73.1	13.4	21	42
	99.99%	5.3	10.5	22.1	41.1	6.7	10.5	22.1
Compressor with Integrated Dryer	8kW	11kW	22kW	36kW	8kW	11kW	22kW	36kW
Filter train	G-C-VT-D	G-C-VT-D	G-C-VT-D	G-C-VT-D	G-C-VT-D	G-C-VT-D	G-C-VT-D	G-C-VT-D
Air receiver	500L 11Bar CE Vessel	500L 11Bar CE Vessel	1000L 11Bar CE Vessel	1500L 11Bar CE Vessel	500L 11Bar CE Vessel	500L 11Bar CE Vessel	1000L 11Bar CE Vessel	1500L 11Bar CE Vessel
N ₂ Generator	PPNG9S PPM IEC	PPNG18S PPM IEC	PPNG37S PPM IEC	PPNG68S PPM IEC	PPNG12S PPM IEC	PPNG18S PPM IEC	PPNG37S PPM IEC	PPNG68S PPM IEC
N ₂ Receiver	500L 11Bar CE Vessel	500L 11Bar CE Vessel	1000L 11Bar CE Vessel	1500L 11Bar CE Vessel	500L 11Bar CE Vessel	500L 11Bar CE Vessel	1000L 11Bar CE Vessel	1500L 11Bar CE Vessel
Particulate Filter	D	D	D	D	D	D	D	D
N ₂ Booster	15 hp 40 Bar	15 hp 40 Bar	15 hp 40 Bar	15 hp 40 Bar	10 hp 300 Bar	10 hp 300 Bar	15 hp 300 Bar	2 x 15 hp 300 Bar
HP Storage	500L/45 bar	500L/45 bar	1000L/45 bar	1000L/45 bar	2 cylinder 300 Bar	12 cylinder rack 300 Bar	12 cylinder rack 300 Bar	16 cylinder rack 300 Bar

1. Flow specified is at the outlet of the PPNGs Generator measured at Reference Conditions: 1 Bar(a) and 20°C at operating pressure of 7 bar (g), inlet temperature 20°C & Air Inlet Quality of ISO 8573-1:2010 class 1-4-1



Nitrogen storage: 40 bar receiver or 300 bar cylinders

- ▶ Bottle rack consisting of up to 16 high-pressure bottles
- ▶ Allows to shave peak demands

Nitrogen booster: 40 bar or 300 bar

- ▶ IE3-standard energy efficient motor
- ▶ Automatic condensate drain, reducing pressure losses by 80%
- ▶ Compressor block made of light alloys with high thermal efficiency, resulting in outstanding reliability
- ▶ Low noise levels thanks to sound insulated panels



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