



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.

PMNG 5 - 75 S -

Nitrogen generator with membrane technology

PMNG 5 - 75 S - Nitrogen generator with membrane technology

Features & Benefits

- ▶ Energy-saving control
- ▶ Proprietary membrane technology ensuring lasting performance
 - No aging
 - No heater
- ▶ Guaranteed purity
 - Reliable purity measurement
 - Easy to set up the device for purity levels between 95% and 99.5%
- ▶ All-in-one plug & play solution
 - All filters integrated in enclosed canopy design
 - No buffer vessels required
 - Instant supply of nitrogen
 - No specialist installation or commissioning
- ▶ Optimal control and monitoring thanks to Purelogic™ Controller

General Specifications

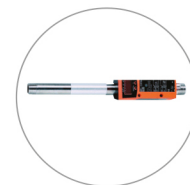
- ▶ Membrane Nitrogen Generators
- ▶ Nitrogen purity achievable: 95%-99.5%
- ▶ Inlet pressure range:
4-13 bar / 60-189 PSI
- ▶ Inlet temperature range:
5-50°C / 41-122°F
- ▶ Required inlet air quality:
1-4-1 according to ISO 8573-1:2010
- ▶ Power supply: 115-230V / 50-60Hz



Options



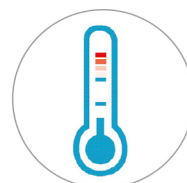
Oil indicator



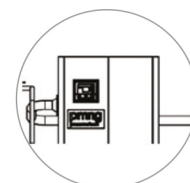
Flow sensor



PDP sensor kit



High ambient
temperature
software



Permeate vent kit



Pneumatech's PMNG nitrogen generators utilize proprietary membrane separation technology. Membrane generators are an excellent choice in low (95%) to medium (99,5%) purity applications such as tire inflation, fire prevention, tank blanketing and pipeline drying. Nitrogen pressures can go up to 12 bar(g) without the need for an additional booster.

With the PMNG, on-site nitrogen supply becomes exceptionally convenient. All pre-filters and controls are included inside the canopy. Only a supply of dry compressed air and electricity is needed to get nitrogen at the outlet of the generator. An outlet buffer vessel is not required, which results in significant space

savings and easy installation. Also the start-up procedure of the PMNG is made so straightforward that it does not require any specialist.

Thanks to the Purelogic™ controller, the PMNG offers impressive control and monitoring capabilities. Various pressure and temperature sensors ensure that the membranes are used in the right working conditions. The nitrogen purity can easily be set with the purity regulator and is reliably monitored. The optional pressure dew point (PDP) sensor and oil indicator sensor safeguard air purity of class 1:4:1 according to ISO8573-1:2010 at the inlet of the membranes.

Technical specifications for PMNG 5-75 S									
Specification	Unit	Product Purity → ↓	PMNG5s	PMNG10s	PMNG15s	PMNG30s	PMNG45s	PMNG60s	PMNG75s
Nominal free nitrogen delivery ⁽¹⁾	m ³ /hr	95%	11.9	24.1	42.1	83.9	126.0	168.1	209.9
		96%	9.7	19.4	34.6	69.5	104.0	138.6	173.2
		97%	7.6	15.1	27.4	54.7	82.1	109.1	136.4
		98%	5.4	10.8	19.8	40.0	59.8	79.9	99.7
		99%	3.6	6.8	11.5	23.0	34.6	46.1	57.6
		99.5%	2.5	5.0	7.2	14.8	22.0	29.5	36.7
Nominal air consumption ⁽¹⁾	m ³ /hr	95%	31.0	62.3	109.1	218.5	327.6	436.7	546.1
		96%	29.2	58.0	104.0	208.1	311.8	415.8	519.8
		97%	26.6	52.9	95.4	191.2	286.6	382.3	477.7
		98%	23.4	47.2	85.7	171.7	257.4	343.1	428.8
		99%	22.0	43.6	72.7	145.4	218.2	291.2	364.0
		99.5%	21.6	42.8	62.6	124.9	187.6	249.8	312.5
Air factor		95%	2.6	2.6	2.6	2.6	2.6	2.6	2.6
		96%	3	3	3	3	3	3	3
		97%	3.5	3.5	3.5	3.5	3.5	3.5	3.5
		98%	4.3	4.3	4.3	4.3	4.3	4.3	4.3
		99%	6.3	6.3	6.3	6.3	6.3	6.3	6.3
		99.5%	8.5	8.5	8.5	8.5	8.5	8.5	8.5
Pressure dewpoint outlet	°C /°F		-40	-40	-40	-40	-40	-40	-40
Length	mm		820	820	820	820	820	820	820
	inch		32.3	32.3	32.3	32.3	32.3	32.3	32.3
Width	mm		772	772	772	1470	1470	1470	1470
	inch		30.4	30.4	30.4	57.9	57.9	57.9	57.9
Height	mm		2090	2090	2090	2090	2090	2090	2090
	inch		82.3	82.3	82.3	82.3	82.3	82.3	82.3
Mass	Kg		259	268	285	445	497	535	571
	Lbs		571	590	628	981	1096	1179	1259
Inlet connections	G/NPT		1/2"	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2" - 1"	1 1/2" - 1"
Outlet Connections	G/NPT		1/2"	1/2"	1/2"	1"	1"	1"	1"

1. Flow is measured at Reference Conditions: 1 Bar(a) and 20°C at operating pressure of 8 bar (g), inlet temperature 20°C & Air Inlet Quality of ISO 8573-1:2010 class 1-4-1



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