

Nitrogen generators with membrane technology

PMNG 4-40 HE



With the PMNG HE, on-site nitrogen production becomes exceptionally convenient and cost-efficient. A true all-in-one solution, the PMNG HE is ready to go the minute you connect it to your compressor. You don't even need additional process vessels or filtration. You save on floor space too, as the compact and quiet unit can be installed at the point of use. And its 35% on average lower energy use reduces your operational costs and environmental impact.

Membrane nitrogen generation

The PMNG HE uses membrane technology, a very simple, reliable and continuous nitrogen production method. Hollow polymer membranes separate nitrogen from compressed air, permeating enriched oxygen into the atmosphere and leaving quality nitrogen with a purity between 95% and 99.5% at outlet.

Features and benefits:

- Reduced air consumption by 35% on average (up to 51%) versus other membrane generators
- More flow in the same compact footprint
- All-in-one plug & play solution
- Very low sound levels
- Instant purity selection between 95% and 99.5%
- Proprietary membrane technology ensuring lasting performance
- No heater (which requires extra power) needed
- Guaranteed purity
- Reliable purity measurement
- All filters integrated in canopy
- No buffer vessels required
- Instant supply of nitrogen
- No specialist installation or commissioning
- Optimal control, monitoring and connectivity thanks to new Purelogic™ Controller

General Specifications

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

Best-in-class membrane technology



Cost savings
35%



Compact
43%



Quiet



Convenient

- Save 35% on average and up to 51% on running costs compared to other membrane nitrogen generators.
- Everything you need to generate nitrogen is built into the box. No external tanks or filters are needed.
- Top end models provide 43% more flow in the same small canopy size.
- Thanks to its extremely low sound levels, the PMNG HE can be comfortably installed at the point of use without disturbing operators.
- Everything you need to generate nitrogen is built into the box. No external tanks or filters are needed.

Technical specifications for PMNG 4-40 HE

Specifications	Product → Purity ↓	Units	PMNG 4 HE	PMNG 8 HE	PMNG 12 HE	PMNG 16 HE	PMNG 20 HE	PMNG 24 HE	PMNG 28 HE	PMNG 32 HE	PMNG 36 HE	PMNG 40 HE
Nominal free nitrogen delivery	95%	m³/h	24.7	49.4	74.1	98.8	123.5	148.2	172.9	197.5	222.2	246.9
	96%		20.9	41.8	62.7	83.6	104.5	125.5	146.4	167.3	188.2	209.1
	97%		17.2	34.5	51.7	68.9	86.2	103.4	120.6	137.9	155.1	172.4
	98%		13.4	26.8	40.3	53.7	67.1	80.5	93.9	107.4	120.8	134.2
	99%		9.6	19.3	28.9	38.5	48.1	57.8	67.4	77.0	86.6	96.3
	99.5%		7.1	14.2	21.4	28.5	35.6	42.7	49.9	57.0	64.1	71.2
Length		inch	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
		mm	820	820	820	820	820	820	820	820	820	820
Width		inch	30.4	30.4	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
		mm	772	772	1470	1470	1470	1470	1470	1470	1470	1470
Height		inch	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
		mm	2090	2090	2090	2090	2090	2090	2090	2090	2090	2090
Mass		lbs	502.7	553.5	1040.8	1100.3	1219.4	1270.1	1360.5	1415.6	1517.0	1572.2
		kg	228	251	472	499	553	576	617	642	688	713
Shipping length		inch	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
		mm	988	988	988	988	988	988	988	988	988	988
Shipping width		inch	32.4	32.4	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
		mm	822	822	1375	1375	1375	1375	1375	1375	1375	1375
Shipping height		inch	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
		mm	2340	2340	2340	2340	2340	2340	2340	2340	2340	2340
Shipping mass		lbs	638.1	688.8	1212.8	1272.3	1391.4	1442.1	1532.5	1587.6	1689.0	1744.2
		kg	289.4	312.4	550	577	631	654	695	720	766	791
Dimensions of inlet and outlet connections			1/2"	1/2"	1 1/2" - 1"	1 1/2" - 1"	1 1/2" - 1"	1 1/2" - 1"	1 1/2" - 1"	1 1/2" - 1"	1 1/2" - 1"	1 1/2" - 1"

(1) Flow is measured at reference conditions: 1 bara and 20°C at operating pressure of 8 barg, inlet temperature 20°C & air inlet quality of ISO 8573-1:2010 class -4:-

Options

Oil indicator
Monitors the oil level of the air going into the membranes.

Flow sensor
Ensures 24/7 nitrogen flow monitoring.

Inlet dewpoint sensor
Monitors the inlet dewpoint and triggers a shutdown warning if the dewpoint is too high.

Outlet dewpoint sensor
Visualises the outlet pressure dewpoint for critical applications.

High ambient temperature software
Protects the unit in high ambient conditions.