

PPNG 6 - 90 HE - Nitrogen generator with pressure swing adsorption technology

Features & Benefits

- ▶ Variable Flow Saver algorithm
 - PPNG 6-90 HE is able to match the lower demand by adapting the PSA cycle and the feed air intake
 - Upto 70% additional energy savings
- ▶ Advanced energy saving control
 - Reduced air consumption at low nitrogen demand
 - Also compensates for altering ambient conditions and purity settings
 - No compressed air use when no nitrogen is consumed
- ▶ Outstanding air factors: thanks to optimised proprietary PSA cycle
- ▶ High-quality, highest efficiency CMS on the market
- ▶ Guaranteed purity
 - Automatically regulates to the requested nitrogen pressure and purity
 - Minimum purity setting: blow off to protect the customers process if the purity isn't reached
 - Zirconia sensors for reliable purity measurement
- ▶ Designed & tested for cyclic load
- ▶ Optimal control and monitoring thanks to Purelogic™ Controller
 - Self-protective monitoring of the feed air quality
 - Feed-air blow-off in case of off-spec conditions
 - Nitrogen flow, purity and pressure measured and controlled
 - Automatic start-up
 - ICONS remote control and connectivity

General Specifications

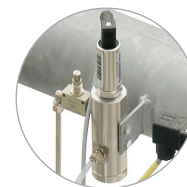
- ▶ Pressure Swing Adsorption (PSA) nitrogen generators - extruded profile design
- ▶ Nitrogen purity achievable: 95% - 99.9% (PCT Variant) & 99.95%-99.999% (PPM variant)
- ▶ Inlet pressure range: 4-13 barg /60-189 psig
- ▶ Inlet temperature range: 5-60°C/41-140°F
- ▶ Required inlet air quality: 1-4-1 according to ISO 8573-1:2010
- ▶ Power supply: 115-230VAC/50-60Hz
- ▶ IEC, UL and CRN approvals



Options



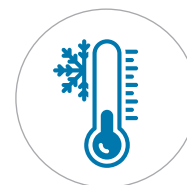
Wooden Packaging



Outlet (N₂) dewpoint sensor



Room oxygen monitor (wall mounted)



Low ambient option

The PPNG 6-90 HE series is Pneumatech's premium on-site nitrogen solution for low to medium flows, with best-in-class performance and the most complete scope of supply.

The generator has outstanding air factors at full load thanks to the use of highly efficient Carbon Molecular Sieves (CMS) and back-flow pressurization.

The air consumption is also optimized at reduced nitrogen flow or pressure demands, thanks to the advanced energy

saving algorithm, which automatically adjusts the cycle times of the generator.

The control and monitoring capabilities of the PPNG 6-90 HE are truly impressive. Purity is guaranteed at all times by opening the consumer valve only at the requested purity level and flushing nitrogen when purity is not reached. Feed air quality is controlled by monitoring temperature, pressure and PDP. The feed air is blown off in case of contamination. All risks of possible CMS damage are eliminated thanks to the automatic start-up feature.

Technical specifications for PPNG 6 - 90 HE

Specifications	Units	Variant	Product → Purity ↓	PPNG 6 HE	PPNG 7 HE	PPNG 9 HE	PPNG 12 HE	PPNG 15 HE	PPNG 18 HE	PPNG 22 HE	PPNG 28 HE	PPNG 30 HE	PPNG 37 HE	PPNG 41 HE	PPNG 50 HE	PPNG 65 HE	PPNG 75 HE	PPNG 90 HE
Nominal free nitrogen delivery ⁽¹⁾	Nm ³ /hr	PCT (%)	95	18.2	23.4	28.7	36.4	46.9	57.3	70.3	86.0	93.8	114.7	128.9	157.7	184.8	211.4	264.3
			99.9	5.7	7.3	8.9	11.3	14.6	17.9	21.9	26.8	29.2	35.7	40.7	49.8	64.4	72.9	91.1
		PPM (%)	99.999	1.92	2.47	3.0	3.8	4.9	6.0	8.0	9.7	10.6	13.0	15.9	19.5	26.3	29.8	37.2
Pressure dewpoint outlet	°C /°F		-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
Maximum pressure drop		PCT (%)	95	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.9	0.9	0.4	0.5	0.8
			99.9	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.2	0.2
		PCT (%)	99.999	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
Length	mm			775	775	775	775	775	775	1400	1400	1400	1400	1400	1400	1400	1400	1400
	inch			31	31	31	31	31	31	55	55	55	55	55	55	55	55	55
Width	mm			840	840	840	840	840	840	840	840	840	840	840	840	970	970	970
	inch			33	33	33	33	33	33	33	33	33	33	33	33	38	38	38
Height	mm			2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2067	2067	2067
	inch			79	79	79	79	79	79	79	79	79	79	79	79	81	81	81
Mass	kg			310	325	340	380	403	425	545	590	645	705	830	910	1140	1140	1560
	lbs			683	716	749	838	888	937	1201	1301	1422	1554	1830	2006	2513	2513	3439
Inlet and outlet connections	G/NPT			1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"

1. Flow is measured at Reference Conditions: 1 bara and 20°C at operating pressure of 7 barg, inlet temperature 20°C & Air Inlet Quality of ISO 8573-1:2010 class 1-4-1