

NITROSource Plus - NSP-080



PSA Nitrogen Gas Generator

Nitrogen Outlet Flow Rates

Inlet Pressure		Purity (Remaining Oxygen Content) vs Nitrogen Outlet Flow (m ³ /hr)*										
bar(g)	psi(g)	5ppm	10ppm	50ppm	100ppm	250ppm	500ppm	0.1%	0.5%	1.0%	2.0%	3.0%
5.0	72.5	14.8	16.9	24.8	28.2	33.8	38.4	43.3	60.8	71.6	85.2	105.7
6.0	87.0	19.8	22.7	31.6	36.0	43.1	49.0	55.3	75.4	88.8	105.6	126.3
7.0	101.5	25.0	28.7	38.1	43.4	51.9	59.1	66.7	90.8	106.9	127.2	146.8
8.0	116.0	28.8	33.0	42.7	48.6	58.2	66.2	74.7	100.8	116.6	138.6	160.1
9.0	130.5	32.5	37.3	47.2	53.8	64.4	73.2	82.7	110.8	127.3	151.3	174.7
10.0	145.0	36.3	41.7	52.2	59.4	71.1	80.9	91.3	119.8	136.9	162.8	188.0
11.0	159.5	38.5	44.2	54.1	61.6	73.7	83.9	94.7	125.3	142.2	169.1	195.3
12.0	174.0	40.8	46.8	56.4	64.2	76.8	87.4	98.7	129.8	147.6	175.5	202.6
13.0	188.5	43.0	49.4	58.3	66.4	79.4	90.4	102.0	135.3	151.9	180.6	208.5

Performance data is based on 7.0 bar(g) (101.5 psi(g)) inlet and 20°C (68°F) ambient temperature.

*m³ reference to standard conditions, 20°C, 1013 mbar(a) and 0% relative water vapour pressure.

Part Number Breakdown

		N	S	P	-	0	8	0	-						-	0	0	A
Purity	Prefix																	
5ppm / 10ppm / 50ppm	U																	
100ppm / 250ppm / 500ppm / 0.1%	H																	
0.5% / 1.0% / 2.0% / 3.0%	L																	
Oxygen Analyser Technology	Prefix																	
Electrochemical	E																	
Zirconia	Z																	
Energy Saving Technology ⁽¹⁾	Prefix																	
Not Fitted	N																	
Fitted	Y																	
Nitrogen Outlet Flow Range ⁽²⁾	Prefix																	
High Flow	H																	
Low Flow	L																	
Dew point Monitoring	Prefix																	
Not Fitted	N																	
Inlet PDP Monitoring	I																	
Outlet PDP Monitoring	O																	
Both Inlet & Outlet Monitoring	B																	

⁽¹⁾ Energy Saving Technology not available on 50ppm, 10ppm or 5ppm generators.

⁽²⁾ See 'Mass Flow Controller Flow Breaks' chart for sizing information.

Mass Flow Controller Flow Breaks

Outlet Pressure	bar(g)	5	6	7	8	9	10	11	12	13
	psi(g)	72.5	87	101.5	116	130.5	145	159.5	174	188.5
High Flow	m ³ /hr*	190.0	205.0	219.0	232.0	245.0	257.0	268.0	279.0	290.0
Low Flow		61.0	66.0	70.0	74.0	78.0	82.0	86.0	89.0	93.0

*m³ reference to standard conditions, 20°C, 1013 mbar(a) and 0% relative water vapour pressure.

Operation Parameters

Minimum Inlet Air Quality	ISO 8573-1: 2010 Class 2.4.1	
Minimum Operating Pressure	5.0 bar(g)	72.5 psi(g)
Maximum Operating Pressure	13.0 bar(g)	188.5 psi(g)
Design Pressure	15.0 bar(g)	217.5 psi(g)
Minimum Operating Temperature	5.0°C	41.0°F
Maximum Operating Temperature	50.0°C	122.0°F
Recommended Operating Temperature	20.0°C	68.0°F
Supply Voltage	100-240V AC (±10%) 50/60Hz	
Power Consumption	100W	
IP Rating	IP32	NEMA 2
Noise	<75 dB (A)	

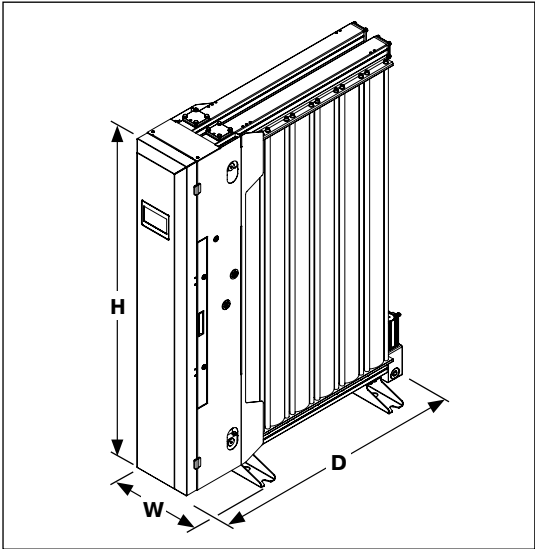
Pipe Connections & Buffer Vessel Sizes

Model	Pipe Connections				Buffer Vessel	
	Compressed Air Inlet	Nitrogen Outlet	To Buffer	From Buffer	Minimum* Capacity	
NSP-080	1" BSPP	1" BSPP	1" BSPP	1" BSPP	1500 Litres	396 Gallon

***Important Note:**
Recommended minimum buffer vessel size to guarantee maximum outlet pressure.
Utilisation of smaller buffer vessels may result in lower outlet pressures and fluctuations in purity.

Weights & Dimensions

Height (H)	2063mm	81.2"
Width (W)	550mm	21.7"
Depth (D)	1897mm	74.6"
Weight	897 kg	1978 lbs





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