

NITROSource Plus - NSP-050



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	9.2	10.6	15.8	18.0	21.3	25.0	27.9	38.8	45.7	54.3	66.1
6.0	87.0	12.4	14.2	20.2	23.0	27.2	31.9	35.6	48.1	56.6	67.3	78.9
7.0	101.5	15.6	18.0	24.3	27.7	32.8	38.5	43.0	57.9	68.2	81.1	91.8
8.0	116.0	18.0	20.6	27.2	31.0	36.7	43.1	48.1	64.3	74.3	88.4	100.0
9.0	130.5	20.3	23.3	30.1	34.3	40.6	47.7	53.3	70.6	81.2	96.5	109.2
10.0	145.0	22.7	26.0	33.3	37.9	44.9	52.7	58.8	76.4	87.3	103.8	117.5
11.0	159.5	24.1	27.7	34.5	39.3	46.5	54.6	61.0	79.9	90.7	107.9	122.1
12.0	174.0	25.5	29.3	35.9	41.0	48.5	56.9	63.6	82.8	94.1	111.9	126.7
13.0	188.5	26.9	30.9	37.2	42.3	50.2	58.8	65.7	86.3	96.8	115.2	130.3

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	5	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)	

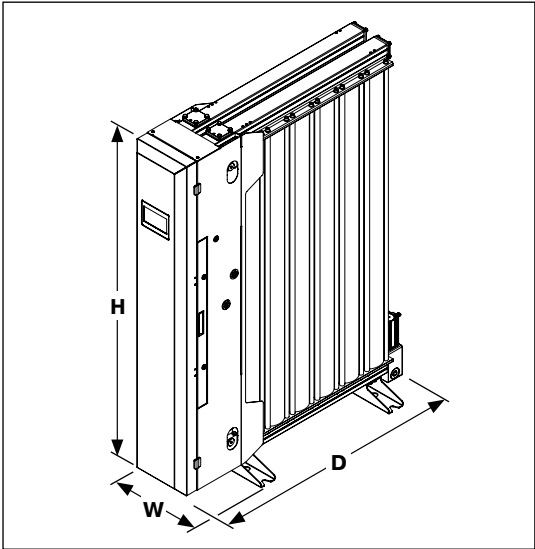
Pipe Connections & Buffer Vessel Sizes

Model	Pipe Connections				Buffer Vessel	
	Compressed Air Inlet	Nitrogen Outlet	To Buffer	From Buffer	Minimum* Capacity	
NSP-050	1" BSPP	1" BSPP	1" BSPP	1" BSPP	1000 Litres	264 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)	1390mm	54.7"
Weight	615 kg	1356 lbs





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