

NITROSource Plus - NSP-030



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	5.5	6.4	9.5	10.8	12.8	15.0	16.8	23.3	27.4	32.6	39.6
6.0	87.0	7.4	8.5	12.1	13.8	16.3	19.2	21.4	28.8	34.0	40.4	47.4
7.0	101.5	9.4	10.8	14.6	16.6	19.7	23.1	25.8	34.7	40.9	48.7	55.1
8.0	116.0	10.8	12.4	16.3	18.6	22.0	25.8	28.9	38.6	44.6	53.0	60.0
9.0	130.5	12.2	14.0	18.1	20.6	24.4	28.6	32.0	42.4	48.7	57.9	65.5
10.0	145.0	13.6	15.6	20.0	22.7	26.9	31.6	35.3	45.9	52.4	62.3	70.5
11.0	159.5	14.4	16.6	20.7	23.6	27.9	32.8	36.6	47.9	54.4	64.7	73.2
12.0	174.0	15.3	17.6	21.6	24.6	29.1	34.1	38.1	49.7	56.5	67.2	76.0
13.0	188.5	16.1	18.5	22.3	25.4	30.1	35.3	39.4	51.8	58.1	69.1	78.2

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	3	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)	

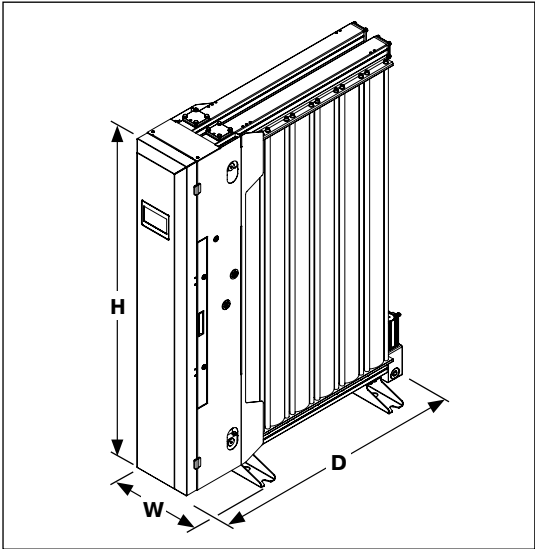
Pipe Connections & Buffer Vessel Sizes

Model	Pipe Connections				Buffer Vessel	
	Compressed Air Inlet	Nitrogen Outlet	To Buffer	From Buffer	Minimum* Capacity	
NSP-030	1" BSPP	1" BSPP	1" BSPP	1" BSPP	500 Litres	132 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)	1052mm	41.4"
Weight	429 kg	946 lbs





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