

NITROSource Plus - NSP-070



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	12.9	14.8	21.7	24.7	29.5	33.6	37.9	53.2	62.7	74.6	92.5
6.0	87.0	17.3	19.9	27.7	31.5	37.7	42.9	48.4	65.9	77.7	92.4	110.5
7.0	101.5	21.9	25.1	33.3	38.0	45.4	51.7	58.3	79.4	93.6	111.3	128.5
8.0	116.0	25.2	28.9	37.3	42.5	50.9	57.9	65.3	88.2	102.0	121.3	140.1
9.0	130.5	28.5	32.7	41.3	47.1	56.3	64.1	72.3	96.9	111.3	132.4	152.9
10.0	145.0	31.7	36.4	45.7	52.0	62.2	70.8	79.9	104.9	119.8	142.4	164.5
11.0	159.5	33.7	38.7	47.3	53.9	64.5	73.4	82.8	109.6	124.4	148.0	170.9
12.0	174.0	35.7	41.0	49.3	56.2	67.2	76.5	86.3	113.6	129.1	153.6	177.3
13.0	188.5	37.7	43.2	51.0	58.1	69.5	79.1	89.2	118.4	132.9	158.0	182.5

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	7	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)	

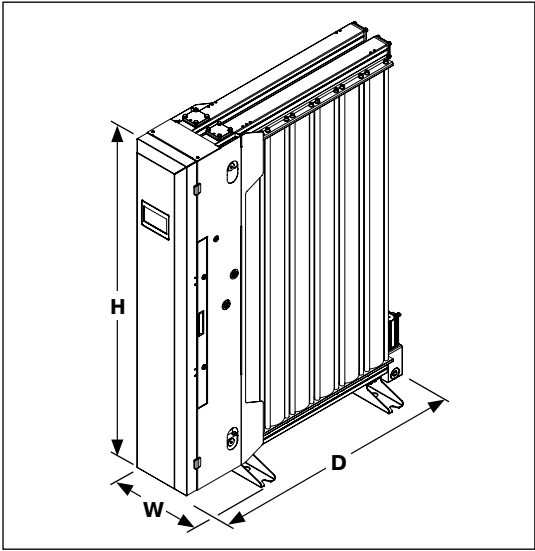
Pipe Connections & Buffer Vessel Sizes

Model	Pipe Connections				Buffer Vessel	
	Compressed Air Inlet	Nitrogen Outlet	To Buffer	From Buffer	Minimum* Capacity	
NSP-070	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)	1728mm	68.0"
Weight	805 kg	1775 lbs





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