

NITROSource Plus - NSP-060



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	11.1	12.7	18.6	21.2	25.3	28.8	32.5	45.6	53.7	63.9	79.3
6.0	87.0	14.8	17.0	23.7	27.0	32.3	36.8	41.5	56.5	66.6	79.2	94.7
7.0	101.5	18.8	21.5	28.6	32.5	38.9	44.3	50.0	68.1	80.2	95.4	110.1
8.0	116.0	21.6	24.8	32.0	36.4	43.6	49.6	56.0	75.6	87.4	104.0	120.0
9.0	130.5	24.4	28.0	35.4	40.3	48.3	54.9	62.0	83.1	95.4	113.5	131.1
10.0	145.0	27.2	31.2	39.1	44.6	53.4	60.7	68.5	89.9	102.7	122.1	141.0
11.0	159.5	28.9	33.2	40.6	46.2	55.3	62.9	71.0	94.0	106.7	126.9	146.5
12.0	174.0	30.6	35.1	42.3	48.2	57.6	65.6	74.0	97.4	110.7	131.6	152.0
13.0	188.5	32.3	37.1	43.7	49.8	59.6	67.8	76.5	101.5	113.9	135.4	156.4

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	6	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)	

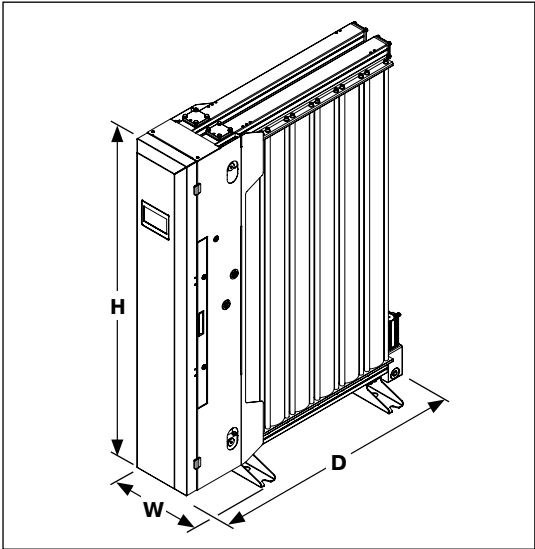
Pipe Connections & Buffer Vessel Sizes

Model	Pipe Connections				Buffer Vessel	
	Compressed Air Inlet	Nitrogen Outlet	To Buffer	From Buffer	Minimum* Capacity	
NSP-060	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)	1559mm	61.3"
Weight	710 kg	1565 lbs





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