

NITROSource Plus - NSP-020



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	4.1	4.7	6.6	7.4	8.7	9.8	11.1	15.5	18.3	22.0	27.0
6.0	87.0	5.5	6.3	8.4	9.5	11.1	12.5	14.1	19.2	22.6	27.2	32.2
7.0	101.5	7.0	8.0	10.1	11.4	13.4	15.1	17.0	23.2	27.3	32.8	37.5
8.0	116.0	8.0	9.2	11.3	12.8	15.0	16.9	19.1	25.7	29.7	35.7	40.8
9.0	130.5	9.0	10.4	12.5	14.1	16.6	18.7	21.1	28.3	32.5	39.0	44.6
10.0	145.0	10.1	11.6	13.9	15.6	18.3	20.7	23.3	30.6	34.9	41.9	47.9
11.0	159.5	10.7	12.3	14.4	16.2	19.0	21.4	24.2	32.0	36.3	43.6	49.8
12.0	174.0	11.3	13.0	15.0	16.9	19.8	22.3	25.2	33.1	37.6	45.2	51.7
13.0	188.5	12.0	13.7	15.5	17.5	20.5	23.1	26.0	34.5	38.7	46.5	53.2

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	2	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)	

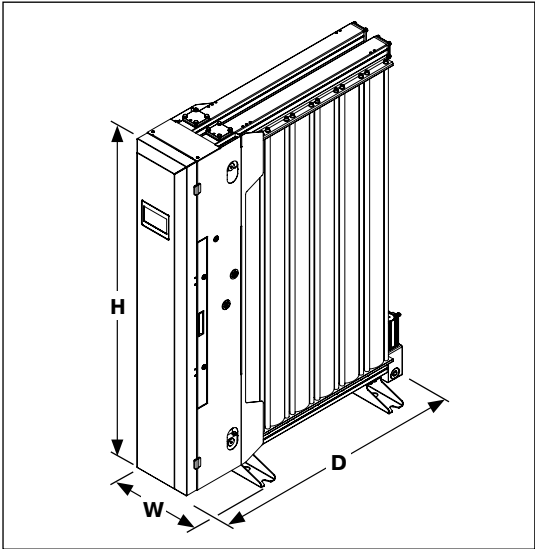
Pipe Connections & Buffer Vessel Sizes

Model	Pipe Connections				Buffer Vessel	
	Compressed Air Inlet	Nitrogen Outlet	To Buffer	From Buffer	Minimum* Capacity	
NSP-020	1" BSPP	1" BSPP	1" BSPP	1" BSPP	270 Litres	71 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)	883mm	34.7"
Weight	335 kg	739 lbs





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