NITROSource Plus - NSP-100

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	20.2	23.0	33.8	36.9	42.9	48.2	54.5	76.9	90.2	110.2	128.7
6.0	87.0	27.1	30.9	43.1	47.2	54.8	61.5	69.5	95.3	111.8	136.5	153.7
7.0	101.5	34.3	39.1	52.0	56.8	66.1	74.1	83.8	114.8	134.7	164.5	178.7
8.0	116.0	39.5	44.9	58.2	63.6	74.0	83.0	93.8	127.5	146.8	179.3	194.8
9.0	130.5	44.6	50.8	64.5	70.4	81.9	91.9	103.9	140.1	160.3	195.7	212.7
10.0	145.0	49.8	56.6	71.2	77.8	90.5	101.5	114.8	151.6	172.4	210.5	228.7
11.0	159.5	52.8	60.1	73.8	80.7	93.8	105.2	119.0	158.5	179.1	218.7	237.7
12.0	174.0	55.9	63.7	76.9	84.1	97.8	109.7	124.0	164.2	185.9	226.9	246.6
13.0	188.5	59.0	67.2	79.5	86.9	101.1	113.4	128.2	171.1	191.3	233.5	253.8

Performance data is based on 7.0 bar(g) (101.5 psi(g)) inlet and 20°C (68°F) ambient temperature.

*m^3 reference to standard conditions, 20°C, 1013 mbar(a) and 0% relative water vapour pressure.

Part Number Breakdown

N	S	P	-	1	0	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

*m^3 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)	

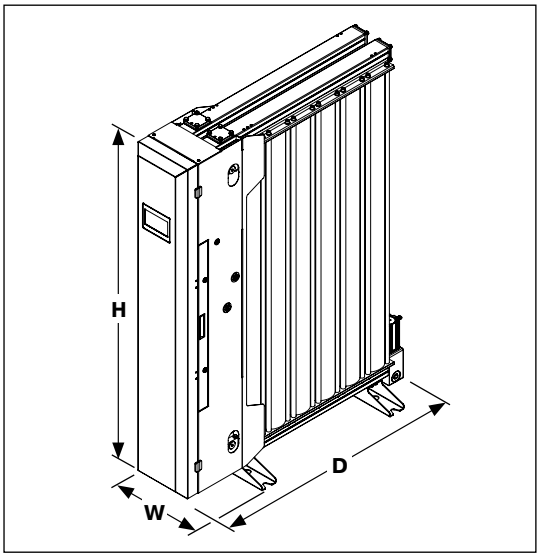
Pipe Connections & Buffer Vessel Sizes

Model	Pipe Connections				Buffer Vessel	
	Compressed Air Inlet	Nitrogen Outlet	To Buffer	From Buffer	Minimum* Capacity	
NSP-100	1½" BSPP	1" BSPP	1½" BSPP	1" BSPP	1500 Litres	396 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)	2194mm	86.4"
Weight	1104 kg	2434 lbs



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