

AGS Series High-Flow PSA Nitrogen Generators

AGS200, AGS400, AGS500 & AGS600



Parker PSA Nitrogen Generators utilize a combination of filtration and pressure swing adsorption technologies and are designed to continually transform standard compressed air into nitrogen at safe, regulated pressures without operator attention.

By raising and lowering the pressure within the carbon molecular sieve (CMS) bed, all contaminants are captured and released, leaving the CMS unchanged. This process allows the nitrogen to pass through as a product gas at pressure. The depressurization phase of the CMS releases the absorbed oxygen and other contaminant gases to the atmosphere.

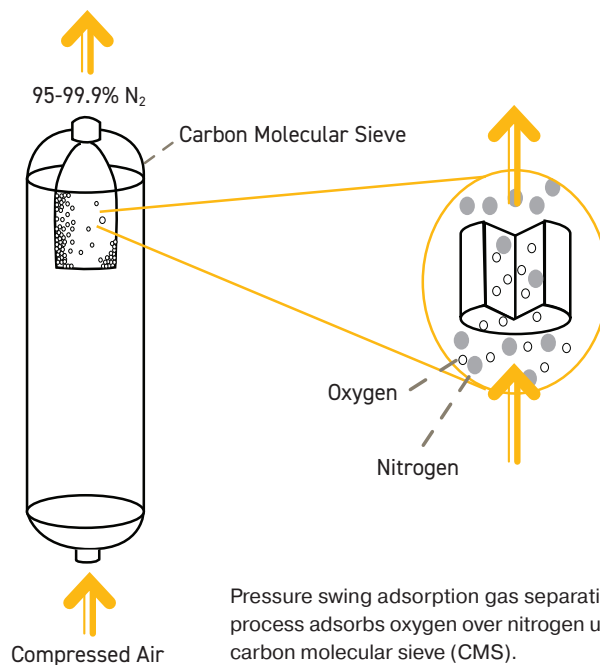
Oxygen concentration measurement of the nitrogen stream is possible with the installation of an optional oxygen monitor. Its audible alarm signals high or low oxygen concentrations while the oxygen analyzer is supplied alarm relay outputs to signal a remote alarm, open a backup supply or the process stream, or close the flow for to protect downstream equipment.



Optimal Operating Conditions

Nominal Conditions	
Feed Pressure	140 psig
Atmospheric	80°F
Ambient Pressure	1 atm
Compressed Air Specifications	
Maximum Pressure	140 psig
Temperature Range	60°F - 105°F
Dewpoint	< -40°F pressure dewpoint
Residual Oil Content	Trace
Particles	<.01 micron
Ambient Conditions	
Temperature	45°F - 90°F
Ambient Pressure	Atmospheric
Air Quality	Clean air without contaminants

Pressure Swing Adsorption Technology



ENGINEERING YOUR SUCCESS.

	AGS200	AGS400	AGS500	AG600
Dimensions	28.50" l x 32.25" d x 77.75" h			
Weight (w/ N2 tank)	1065 lbs	1265 lbs	1553 lbs	1753 lbs
Inlet	1/2" NPT		1" NPT	
Outlet	1/2" NPT		3/4" NPT	

% O2	AGS200			AGS400		
	Nitrogen Flow (SCFH)*	Average Air Demand (SCFM)	LC-MS Flow Rates (LPM)	Nitrogen Flow (SCFH)*	Average Air Demand (SCFM)	LC-MS Flow Rates (LPM)
.001	94	20	44	189	41	89
.005	150	21	71	300	42	142
.01	194	22	92	388	44	183
.05	314	25	148	629	49	297
.1	365	26	172	730	52	345
.5	512	28	242	1024	57	483
1	618	30	292	1235	59	583
2	770	32	363	1541	63	727
3	892	34	421	1783	68	842
4	983	36	464	1966	72	928
5	1065	37	503	2130	75	1005

*Nitrogen flow will be ±5%

% O2	AGS500			AGS600		
	Nitrogen Flow (SCFH)*	Average Air Demand (SCFM)	LC-MS Flow Rates (LPM)	Nitrogen Flow (SCFH)*	Average Air Demand (SCFM)	LC-MS Flow Rates (LPM)
.001	283	61	134	377	81	178
.005	450	64	212	600	85	283
.01	583	66	275	777	88	367
.05	943	74	445	1258	98	594
.1	1095	78	517	1460	105	689
.5	1536	85	725	2048	114	967
1	1853	89	875	2470	119	1166
2	2311	95	1091	3081	126	1454
3	2675	103	1263	3566	167	1683
4	2949	108	1392	3931	144	1855
5	3195	112	1508	4260	149	2011

For assistance, call 800-343-4048

