





# TWIN TOWER NITROGEN GENERATOR

NS-100 / NS-200 / NS-300



## Technical Data

-  7,5 or 10 bar
-  ≤ -40
-  110-230 V / 50-60Hz
-  PED

## Features & Benefits

- Feed air connection: 2" BSP
- Noise Level: Below 75 dB(a)
- Power consumption: 0,3 kW
- Feed Air ISO 8573 Class: 1.4.1
- Flow control and oxygen analyzer (option)

The NS generators extract the available nitrogen in the ambient air from the other gases by applying the Pressure Swing Adsorption (PSA) technology. During the PSA process compressed, cleaned ambient air is led to a molecular sieve bed, which allows the nitrogen to pass through as a product gas, but adsorbs other gases. The sieve releases the adsorbed gases to the atmosphere, when the outlet valve is closed and the bed pressure returns to ambient pressure. Afterward, the bed will be purged with nitrogen before fresh compressed air will enter for a new production cycle. In order to guarantee a constant product flow, the NS nitrogen generators use modules of two molecular sieve beds, which alternatively switch between the adsorption and the regeneration phase. Under normal operating conditions and with correct maintenance the molecular sieve beds will have an almost indefinite lifetime.

Model	Nitrogen Production Flow (Nm <sup>3</sup> /h)																		
	Oxygen Content	5 %		3%		2%		1%		0,5%		0,1%		100 ppm		50 ppm		10 ppm	
	Feed Air Pressure	7,5	10	7,5	10	7,5	10	7,5	10	7,5	10	7,5	10	7,5	10	7,5	10	7,5	10
NS-100	Nitrogen Flow	244	309	181	208	144	162	123	145	112	145	88	99	59	60	53	50	39	43
	Nitrogen Pressure	5,0	7,3	5,5	7,6	5,8	7,8	6,0	8,0	6,0	8,0	6,3	8,3	6,3	8,3	6,3	8,3	6,3	8,3
	Feed air consumption	452	567	373	445	323	388	292	350	303	357	272	315	230	282	226	263	209	241
NS-200	Nitrogen Flow	462	587	344	394	273	307	233	275	212	275	166	188	112	113	101	95	75	81
	Nitrogen Pressure	5,0	7,3	5,5	7,6	5,8	7,8	6,0	8,0	6,0	8,0	6,3	8,3	6,3	8,3	6,3	8,3	6,3	8,6
	Feed air consumption	865	1082	715	851	620	743	561	672	581	684	522	604	442	542	436	505	403	464
NS-300	Nitrogen Flow	679	863	505	579	401	451	343	404	312	405	244	277	164	166	148	140	110	119
	Nitrogen Pressure	5,0	7,3	5,5	7,6	5,8	7,8	6,0	8,0	6,0	8,0	6,3	8,3	6,3	8,3	6,3	8,3	6,3	8,3
	Feed air consumption	1275	1593	1054	1253	914	1095	827	990	857	1009	770	891	653	800	643	746	596	685