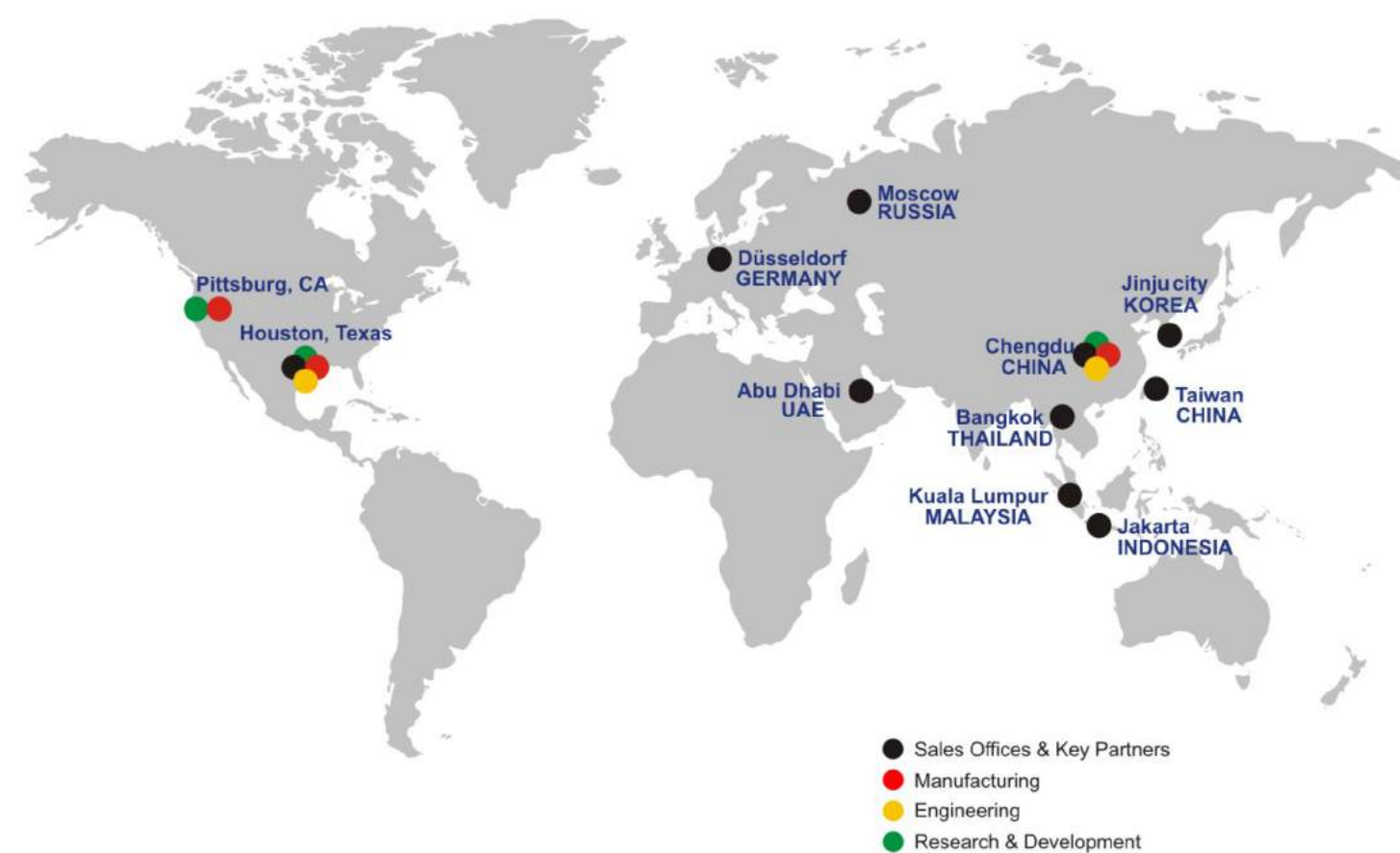




Nitrogen & Oxygen Gas Generators

Pure & Simple





Products

PSA Nitrogen Generator

PSA Oxygen Generator

Membrane Nitrogen Generator

Standard PSA Nitrogen Generator

DEOXO Purification Package

Booster Compressor Package

Instrument Air Package

Hydrogen Purification Package

Application



Oil&Gas

- General Rig Inerting
- Gas Buffer Seals
- Enhanced Oil Recovery
- And More...



Process Gas

- Separation Of Gases
- Dehydration
- Custom Fabrication
- And More...



Marine Shipping

- Controlled Atmospheres
- General Inerting And Blanketing
- Product Transfer
- And More...



Industry Manufacturing & Fabrication

- Electronics
- Food And Beverage
- Injection Molding
- And More...



Medical Pharmaceutical & Biotechnology

- 90%-93% Oxygen
- And More...



And Many, Many More...



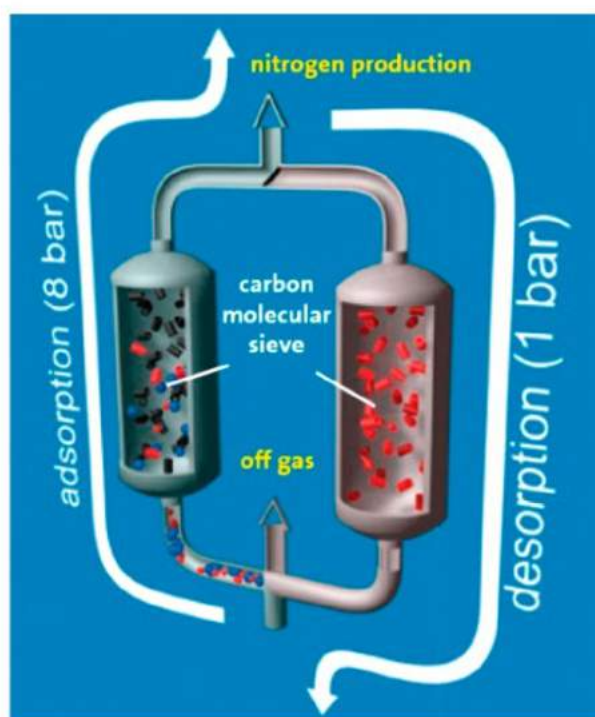
Kingpower Inter Supply Co., Ltd

55/234 Atoll Java Bay Soi.Kingkaew19 Bang Phli Yai Amphoe Bang Phli Samut Prakan 10540,Thailand

Tel : 02-136-2523 Mobile: 098-5847225 Email: sales@kingpowerintersupply.com Website: <https://www.kingpowerintersupply.com>



Customized PSA Nitrogen Generator



Typical Applications

- › Refinery of Oil & Gas
- › Blanketing of Chemicals and Pharmaceuticals
- › Gas Assisted injection Molding
- › Heat Treatment of Metals
- › Laser Cutting
- › Prevention of Dust Explosions
- › Re-Flow and Wave Soldering of PCBs
- › Food Processing & Packaging
- › Inerting of Flammable Liquids

Features

- › Customized design
- › Safety: Low Operating Pressures, no Hazardous Storage
- › Economy: Lower investment and Operating Cost, Easily Expandable
- › Convenience: Fully Automatic Unattended Operation
- › Reliability: Easy to Install and Maintain

IGS Nitrogen PSA Generators separate nitrogen (N_2) from compressed air utilizing pressure swing adsorption technology. Compressed air, which consists of approximately 21% oxygen and 78% nitrogen, is passed through a bed of carbon molecular sieve (CMS). The sieve preferentially adsorbs O_2 and moisture over N_2 allowing the N_2 to pass through as a product gas at pressure. While one of the towers is in the adsorption phase the other tower is regenerated by de-pressurizing at which time the sieve releases the adsorbed gases to the atmosphere and the cycle is then repeated.

A solid state programmable controller operates the process valves on an alternating cycle with built-in logic for automatic stop/start. Nitrogen flow and purity remain constant regardless of the peak usage demands. Under normal operating conditions and with correct maintenance the carbon molecular sieve will have an almost indefinite lifetime.

Standard Components

- › Air filters
- › Pneumatics Valves
- › Adsorption Vessels with pressure Gauge
- › Pressure Switch for automated Idle-Mode
- › Piping and Instrumentation
- › Exhaust Muffler
- › Control System with PLC
- › Oxygen analyzer
- › Product Flow meter
- › Skid Mounted

Options

- › Air Buffer
- › Nitrogen Buffer
- › Safety Valve
- › Fail-Safe Package
- › Feed Air Compressor
- › Enhanced PLC with Telemetry
- › HMI
- › Dew Point Analyzer
- › DeOxo Purification System
- › Containerized Package
- › ASME VIII for Pressure Vessels



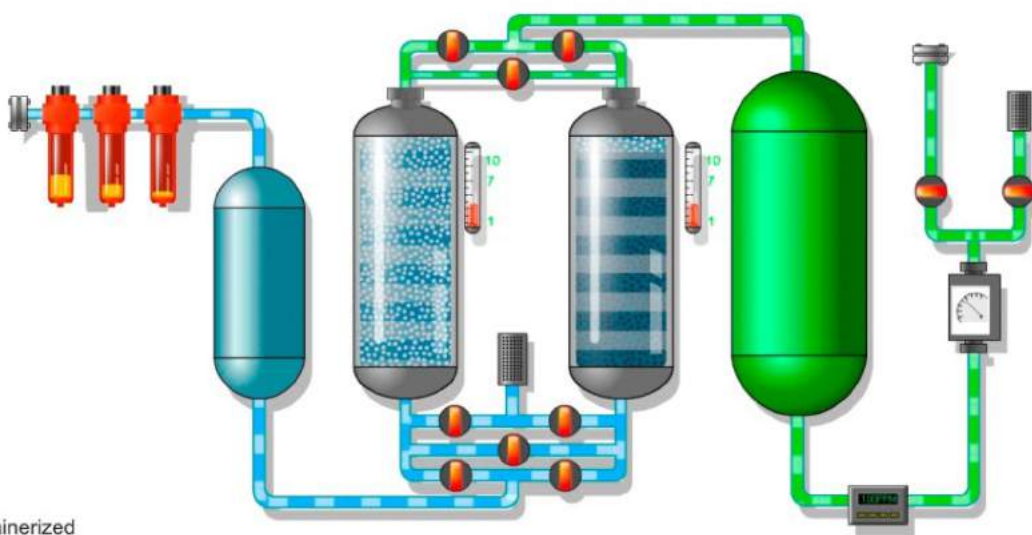


Flowchart

- > Feed Air Compression And Conditioning
- > Pressurization And Adsorption
- > Desorption
- > Nitrogen Receiver
- > Nitrogen Product

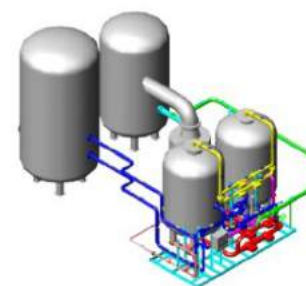
Specifications

Nitrogen Capacity:	10 ~ 6000Nm ³ /h
Nitrogen Purity:	98% ~ 99.999%
Nitrogen Outlet Pressure:	up to 0.85MPa(g)
Min. Air Inlet Pressure:	0.6MPa(g)
Ambient Temperature Range:	5 ~ 50°C
Package:	Cabinet, Skid-Mounted, Containerized



Quick selection

Series	NS Series Capacity 20°C, 7.5Bar(g) Feed Air Pressure					NSH Series Capacity 20°C, 7.5Bar(g) Feed Air Pressure				
Model Purity	Nm³/hour 97.0%	Nm³/hour 98.0%	Nm³/hour 99.0%	Nm³/hour 99.5%	Nm³/hour 99.9%	Model Purity	Nm³/hour 99.95%	Nm³/hour 99.99%	Nm³/hour 99.995%	Nm³/hour 99.999%
NS-20	31	27	22	18	11	NSH-10	6	5	4	3
NS-35	54	47	39	31	20	NSH-20	12	9	8	6
NS-50	76	67	55	45	28	NSH-35	20	16	13	10
NS-75	114	101	82	67	42	NSH-50	29	22	19	14
NS-100	153	136	111	90	56	NSH-75	43	33	28	21
NS-150	226	201	164	134	83	NSH-100	58	45	38	29
NS-200	304	271	221	180	112	NSH-150	86	66	56	42
NS-300	453	403	329	268	166	NSH-200	116	89	76	57
NS-400	601	535	436	356	221	NSH-300	172	133	113	85
NS-500	757	674	549	448	278	NSH-400	228	176	150	112
NS-600	905	807	657	536	333	NSH-500	288	222	189	141
NS-700	1051	936	763	622	386	NSH-750	429	330	281	211
NS-750	1128	1005	819	667	415	NSH-1000	572	441	375	282
NS-800	1202	1071	873	712	442	NSH-2000	1138	877	745	560
NS-900	1350	1203	980	799	496					
NS-1000	1506	1342	1093	891	554					
NS-1200	1796	1600	1303	1063	660					
NS-1300	1944	1732	1411	1151	715					
NS-1500	2241	1997	1627	1326	824					
NS-1600	2389	2129	1734	1414	878					
NS-1800	2686	2393	1950	1590	987					
NS-2000	2983	2658	2165	1765	1096					



3000Nm³/h 99.9%
The largest PSA Nitrogen
Generation Package in the
world



850Nm³/h 99.5% PSA N₂
Generator for Oil & Gas
Field Surface Facility



100Nm³/h 99.5%
Thailand PTT Project

**King
Power**
Intersupply



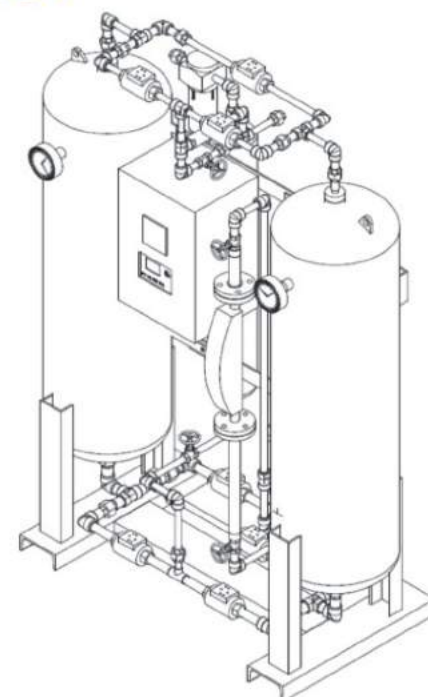
Standard PSA Nitrogen Generater

To fill the blanks of small PSA Nitrogen Generators(<100Nm³/h, 99.9%) a new series of standardized PSA Nitrogen Generators come into being, which should be much more competitive and economic in traditional markets.

The design is based on Chinese standard.

Features

- > Compact
- > Quick plug in
- > Economic
- > Standardized
- > Short lead time



Quick selection

NITROGEN FLOW						
MODEL	INPUT bar(g)	N ₂ Purity 99% Nm ³ /h	N ₂ Purity 99.9% Nm ³ /h	N ₂ Purity 99.95% Nm ³ /h	N ₂ Purity 99.99% Nm ³ /h	N ₂ Purity 99.999% Nm ³ /h
NS25-75	7.5	11.1	7.3	5.7	4.1	1.8
	8.5	13.4	8.1	6.9	4.5	1.9
	10	15.4	9.2	8.3	4.7	2.4
NS25-90	7.5	13.3	8.7	6.9	5.0	2.2
	8.5	16.1	9.7	8.3	5.4	2.3
	10	18.4	11.1	10.0	5.7	2.9
NS25-105	7.5	15.6	10.2	8.0	5.8	2.5
	8.5	18.8	11.3	9.7	6.3	2.7
	10	21.5	12.9	11.6	6.6	3.4
NS25-120	7.5	17.8	11.6	9.2	6.6	2.9
	8.5	21.5	12.9	11.1	7.2	3.1
	10	24.6	14.7	13.3	7.5	3.9
NS30-95	7.5	20.3	13.3	10.5	7.6	3.3
	8.5	24.5	14.8	12.6	8.2	3.6
	10	28.0	16.8	15.1	8.6	4.4
NS30-105	7.5	22.5	14.7	11.6	8.4	3.6
	8.5	27.2	16.4	14.0	9.1	3.9
	10	31.1	18.7	16.8	9.5	4.9
NS30-115	7.5	24.4	16.0	12.6	9.1	3.9
	8.5	29.5	17.8	15.2	9.9	4.3
	10	33.8	20.3	18.2	10.4	5.3
NS30-125	7.5	26.7	17.4	13.8	10.0	4.3
	8.5	32.2	19.4	16.6	10.8	4.7
	10	36.9	22.1	19.9	11.3	5.8
NS30-135	7.5	28.9	18.9	14.9	10.8	4.7
	8.5	34.9	21.0	21.0	11.7	5.1
	10	39.9	24.0	24.0	12.2	6.3
NS35-110	7.5	31.4	20.5	16.2	11.7	5.1
	8.5	37.9	22.9	19.5	12.7	5.5
	10	43.4	26.0	23.4	13.3	6.8
NS35-125	7.5	36	23	18	13.3	5.7
	8.5	43	26	22	14.4	6.2
	10	49	29	27	15.1	7.7
NS35-140	7.5	40	26	21	14.8	6.4
	8.5	48	29	25	16.1	7.0
	10	55	33	30	16.8	8.6
NS35-155	7.5	44	29	23	16.5	7.1
	8.5	53	32	27	17.9	7.7
	10	61	37	33	18.7	9.6
NS35-170	7.5	48	32	25	18.0	7.8
	8.5	58	35	30	19.6	8.5
	10	67	40	36	20.5	10.5

**King
Power**
Intersupply



NITROGEN FLOW						
MODEL	INPUT bar(g)	N ₂ Purity 99% Nm ³ /h	N ₂ Purity 99.9% Nm ³ /h	N ₂ Purity 99.95% Nm ³ /h	N ₂ Purity 99.99% Nm ³ /h	N ₂ Purity 99.999% Nm ³ /h
NS40-145	7.5	51	33	26	18.9	8.2
	8.5	61	37	31	20.5	8.9
	10	70	42	38	21.4	10.9
NS40-155	7.5	54	35	28	20.2	8.7
	8.5	65	39	34	22.0	9.5
	10	75	45	40	23.0	11.7
NS40-165	7.5	57	38	30	21.5	9.3
	8.5	69	42	36	23.3	10.1
	10	79	48	43	24.4	12.5
NS40-175	7.5	61	40	32	22.8	9.9
	8.5	74	44	38	24.8	10.7
	10	84	51	46	25.9	13.2
NS40-185	7.5	64	42	33	24.1	10.4
	8.5	78	47	40	26.1	11.3
	10	89	53	48	27.3	14.0
NS45-155	7.5	68	45	35	25.5	11.0
	8.5	82	50	43	27.7	12.0
	10	94	57	51	29.0	14.8
NS45-165	7.5	73	48	38	27.2	11.7
	8.5	88	53	45	29.5	12.7
	10	101	60	54	30.9	15.8
NS45-175	7.5	77	51	40	29	12.5
	8.5	93	56	48	31	13.5
	10	107	64	58	33	16.7
NS45-185	7.5	82	53	42	30	13.2
	8.5	99	59	51	33	14.3
	10	113	68	61	35	17.7
NS45-195	7.5	86	56	44	32	13.9
	8.5	104	63	54	35	15.1
	10	119	71	64	37	18.6
NS50-165	7.5	90	59	46	34	14.5
	8.5	109	66	56	36	15.8
	10	124	75	67	38	19.5
NS50-175	7.5	95	62	49	36	15.4
	8.5	115	69	59	39	16.7
	10	132	79	71	40	20.6
NS50-185	7.5	101	66	52	38	16.3
	8.5	122	73	63	41	17.7
	10	139	84	75	43	21.8
NS50-195	7.5	106	70	55	40	17.2
	8.5	128	77	66	43	18.6
	10	147	88	79	45	23.0
NS50-205	7.5	112	73	58	42	18.0
	8.5	135	81	69	45	19.6
	10	154	93	83	47	24.2

- > When ordering a unit it is the Model number plus the operating pressure. Example NS30-105-8.5
- > The nominal rating of the compressors are at 20°C, 0% RH and at 1.01325 bar(a).
- > Any conditions that vary from these standards must be compensated for.
- > All values are + /- 5%

