

# NITROGEN GENERATOR TWIN TOWER MODEL



High Efficiency Systems in Nitrogen Gas Production  
Nitrogen Production Unit



**7/24**  
**HOT LINE**  
+90 530 280 90 36

# GENERATOR

## ADVANTAGES OF THE NITROGEN GENERATOR

- ▶ Reliable and economical N<sub>2</sub> production with PSA technology up to 99,999% purity
- ▶ Amortizes costs in less than 2 years time.
- ▶ The spare parts are in our stock because same components are used in all models. Periodic maintenance is only once in every 6 months and economical.
- ▶ It eliminates logistical or supplier problem which arise from the transportation of liquid or cylinder nitrogen.
- ▶ AAG Nitrogen Generator unit was designed to swiftly amortize your investments by helping you save substantially on nitrogen consumption.

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## STANDARD EQUIPMENT

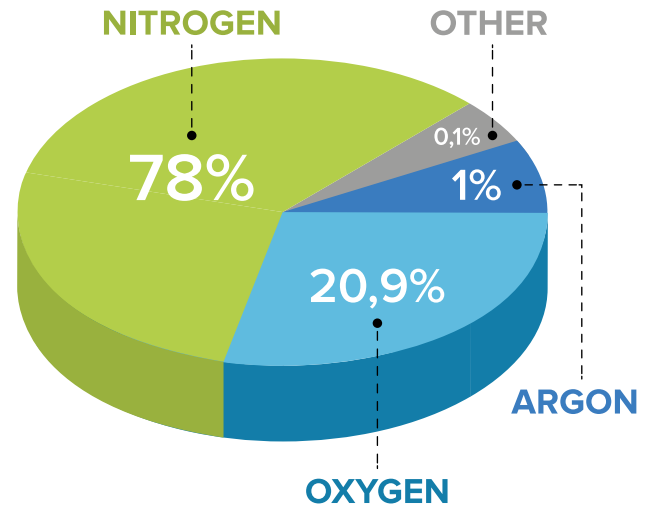
- ▶ Water separator for inlet of feed pressure air, 1 unit
- ▶ Water discharge system with zero air loss, 1 unit (Zeromat)
- ▶ Line filters for feeding pressurized air, 2 units (0,5 and 0,01 mg/m<sup>3</sup>)
- ▶ Outlet filter, 1 pc, 0.01 mg/m<sup>3</sup>
- ▶ Pneumatic valves
- ▶ PLC control system with fully automated operations
- ▶ Pressure switch for automated Idle-Mode
- ▶ Sensor for compressed air inlet
- ▶ Exhaust mufflers
- ▶ Regulator for nitrogen pressure

# LCD TOUCH DISPLAY CONTROL PANEL PROPERTIES

- ▶ Total work time display
- ▶ Automatic or manual operation
- ▶ Measurement of gas purity constantly or instantly (Optional 30 days purity memory)
- ▶ Adjustable time settings
- ▶ Language (Turkish-English-Spanish)
- ▶ One touch technical service contact details
- ▶ Optional alarm with sound or light on demand
- ▶ Automatic stop control when outlet pressure increases



## DRY AIR COMPOSITION



# FIELDS OF APPLICATION

► Nitrogen gas is used in a variety of industrial applications.

► It is stored or produced on-site to suppress other unwanted gases such as Oxygen in various processes.

**FOOD, MEDICINE, PACKAGING, AVIATION, AUTOMOTIVES, LASER CUTTING, ELECTRONICS, PETROCHEMICALS, PLASTIC INJECTIONS, COOLING, CHEMICAL, COATING, COSMETICS** industries are the main sectors.

INDUSTRY	APPLICATION
Food and MAP Processes	Fruit Juice, Milk, Water and Coffee Packaging / Olive Oil / Wine Beverage and Storage / Cooking Oil Grinding Cold Storage of Fresh Vegetables
Electronics	Laser Cutting / Heat Application
Medical Products	Packaging / Processes
Smelting	Nitration / Isolation
Metal Works	Heat Application / Aluminium Extrusion / Laser Cutting
Chemical	Reservoir Isolation / Solvent Isolation / Fuel Storage Polymer Production / Solvent Dye Production
Automotive	Tyre Inflating / Leakage Tests
Other	Pressure Control / Copper Cable / Block Injection

BASIC TECH. FEATURES	
Nitrogen Purity	up to 99,999%
Nitrogen Pressure Max.	300 bar (g) *
Min. Air Pressure	6 bar
Max. Particle Content	0,01 µm
Electricity Consumption	120W - 230 VAC

(1) Please contact us for higher nitrogen pressure \* NITROGEN BOOSTER COMPRESSOR



# TWINTOWER MODEL NITROGEN GENERATORS TECHNICAL DATA

Model	Weight (Kg)	Dimensions L x D x H (mm)	Content ( $\mu\text{m}$ )	Inlet Air Pressure (Barg)	N <sub>2</sub> Output Pressure (Barg)	Power V/ph/Hz
NITROPAK 213	740	750x750x2500	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 226	950	800x1060x2500	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 239	1850	900x1270x2500	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 252	2000	1000x1400x2500	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 265	2150	1000x1600x2500	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 278	2600	1000x1800x2500	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 291	3200	1000x1900x3000	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 304	3600	1200x2000x3000	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 305	4000	2245x4074x2787	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 307	4400	2375x4024x3054	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 309	4800	2370x4020x3317	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 311	5200	2370x4020x3317	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 313	5600	2370x4120x3350	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 315	6000	2370x4120x3350	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 317	6400	2400x4125x3611	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 319	6800	2590x4200x3900	0.01	7,5	6	110 - 230 / 1 / 50 - 60
NITROPAK 321	7200	2590x4200x3900	0.01	7,5	6	110 - 230 / 1 / 50 - 60

## MINIMUM NITROGEN OUTPUT FLOW WITH COMPRESSED AIR INLET PRESSURE OF 7,5 BAR (g)

MODEL / PURITY	Operating Pressure: Up to 11,5 bar (Standart: 7 bar)									
	N <sub>2</sub> Flow	(Nm <sup>3</sup> /h)								
	95%	97%	98%	99%	99.5%	99.9%	99.95%	99.99%	99.995%	99.999%
NITROPAK 213	155	103	89.1	70.3	58.4	39.6	32.7	19.8	16.8	13
NITROPAK 226	310	206	178.2	140.6	116.8	79.2	65.4	39.6	33.6	26
NITROPAK 239	465	309	267.3	210.9	175.2	118.8	98.1	59.4	50.4	39
NITROPAK 252	620	412	356.4	281.2	233.6	158.4	130.8	79.2	67.2	52
NITROPAK 265	775	515	445.5	351.5	292	198	163.5	99	84	65
NITROPAK 278	930	618	534.6	421.8	350.4	237.6	196.2	118.8	100.8	78
NITROPAK 291	1085	721	623.7	492.1	408.8	277.2	228.9	138.6	117.6	91
NITROPAK 304	1240	824	712.8	562.4	467.2	316.8	261.6	158.4	134.4	104
NITROPAK 305	1395	927	801.9	632.7	525.6	356.4	294.3	178.2	151.2	117
NITROPAK 307	1550	1030	891	703	584	396	327	198	168	130
NITROPAK 309	1705	1133	980.1	773.3	642.4	435.6	359.7	217.8	184.8	143
NITROPAK 311	1860	1236	1069.2	843.6	700.8	475.2	392.4	237.6	201.6	156
NITROPAK 313	2015	1339	1158.3	913.9	759.2	514.8	425.1	257.4	218.4	169
NITROPAK 315	2170	1442	1247.4	984.2	817.6	554.4	457.8	277.2	235.2	182
NITROPAK 317	2325	1545	1336.5	1054.5	876	594	490.5	297	252	195
NITROPAK 319	2480	1648	1425.6	1124.8	934.4	633.6	523.2	316.8	268.8	208
NITROPAK 321	2635	1751	1514.7	1195.1	992.8	673.2	555.9	336.6	285.6	221

OUR COMPANY MAY CHANGE THE VALUES IN THE CATALOGUE ACCORDING TO THE RESEARCH AND DEVELOPMENT STUDIES.

# CORRECTION FACTORS

## PRESSURE INLET BAR (psi) FOR 7,5 BAR (g) INLET

COMPRESSED AIR INLET PRESSURE	6,5 (94,3)	7,5 (108,8)	8,5 (123,3)	9,5 (137,8)	10,5 (152,3)
PERFORMANCE PERCENTAGE	0,84	1	1,08	1,16	1,19

## COMPRESSED AIR INLET TEMPERATURE IN °C (°F)

5 (41)	10 (50)	15 (59)	20 (68)	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (112)
0,85	1,03	1,02	1	0,93	0,86	0,8	0,72	0,6	0,52

### REFERENCE CONDITIONS ②

- ▶ Ambient Temperature Working Range : +5 / +40 °C (41°F / 104°F)
- ▶ Minimum Air Inlet Pressure : 6,5 bar (g) (94,3 psi)
- ▶ Maximum Air Inlet Pressure : 11,5 bar (g) (181,3 psi)

Please Check Correction Factor

Compressed Air Inlet Quality: ISO 8573-1

1. Quality → 1-1-2 or

1. Quality → 1-1-4

- ▶ Electrical Power Supply : 110 / 230V, 50/60Hz

- ① WITH A TOLARANCE OF ±5%    ② CHECK REFERENCE CONDITIONS    ③ PLEASE CONTACT CUSTOMER SERVICE AND/OR REPRESENTATIVE FOR ADVICE

OUR COMPANY CAN OPTIONALLY INSTALL A NITROGEN LIQUEFYING UNIT TO THESE MODELS  
 OUR COMPANY MAY CHANGE THE VALUES IN THE CATALOGUE ACCORDING TO THE RESEARCH AND DEVELOPMENT STUDIES.  
 FOR BIGGER CAPACITIES AND MODELS, PLEASE CONTACT WITH OUR TEAM