

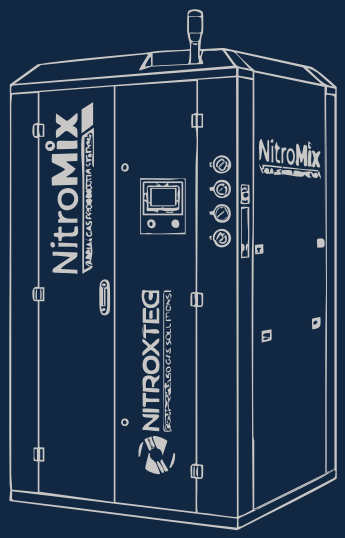
NITROXTEC®

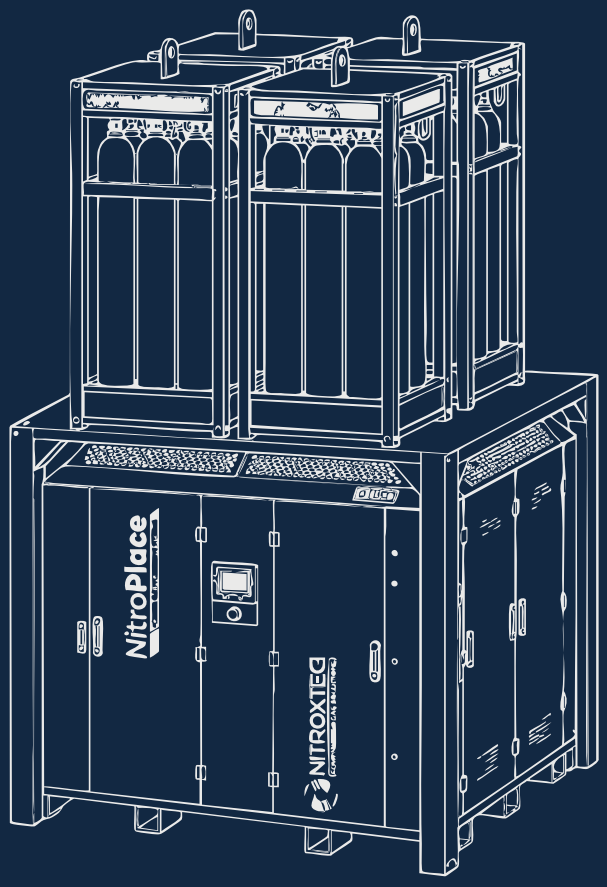
Clean Compressed Air & Reliable Gas

LASER CUTTING

AIR & GAS SOLUTIONS

2026/2027





NITROXTEC®
Clean Compressed Air & Reliable Gas



About Us

NITROXTEC Endüstriyel Makina Basınçlı
Hava ve Gaz Çözümleri Sanayi Ticaret Ltd. Şti.

NITROXTEC, with over 15 years of experience, knowledge, and training, was established to produce the highest quality and most efficient gas machinery and air system solutions for the world.

Our company provides services to its customers by manufacturing the most cost-effective, highest-performing, and most efficient products in its production facilities without compromising quality.

Through the solutions offered at our production facilities, we ensure the highest level of customer satisfaction.

The source of our success and the solutions we offer to the industry lies in the value we place on our colleagues and business partners.

NITROXTEC aims to produce sustainable solutions in industrial air and gas systems with a vision of quality and efficiency.

Our Vision

To be the globally preferred technology partner for industrial air and gas solutions—recognized for reliability, competitiveness, and commitment to sustainable innovation that creates value for stakeholders while respecting people and the environment.



Our Mission

To strengthen our customers' competitive advantage by delivering innovative, high-value gas generation systems that eliminate external dependencies, support domestic production, and maximize operational efficiency through advanced engineering and reliable technology.

Our Quality Approach

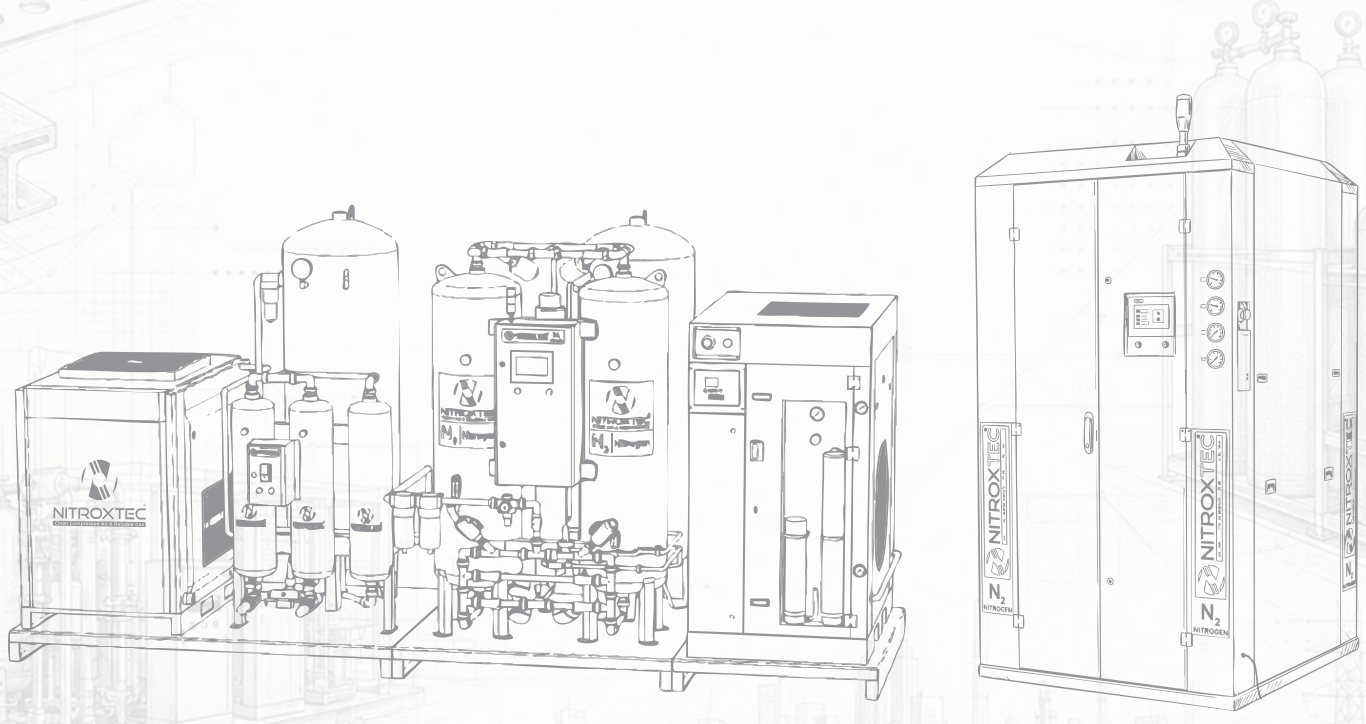
For us, quality is more than a standard—it is the essence of our identity. Every product we manufacture and every service we provide is shaped by principles of high performance, durability, and reliability. We work tirelessly to ensure that the first things our customers remember about us are quality and efficiency.

Advanced Air & Gas Solutions for Laser Cutting

Discover NITROXTEC's advanced air and nitrogen generation systems, engineered to deliver the purity, pressure, reliability, and efficiency required for high-quality metal laser cutting operations.

Feature	AirPlace (Air Cutting)	NitroMix (Gas Cutting)	High-Purity Nitrogen (NitroPlace)
Pressure	**10–20 bar** 145–290 psi	**25–40 bar** 363–580 psi	**230–300 bar** 3,336–4,351 psi
Purity	**Dry, Oil-Free Air**	**95–99% N_2** (5–1% O_2)	**99.99–99.999% N_2**
Laser Power Range	**1–30 kW** 1.34–40.23 hp	**8 kW and Above** 10.73 hp and above	**1–40+ kW** 1.34–53.64+ hp
Most Suitable For	Carbon Steel, Aluminum, Galvanized Steel, DKP (Standard Cutting)	Carbon Steel, Aluminum, Galvanized Steel, DKP, Mild Steel	Stainless Steel, Chromium, Aluminum, Copper, Galvanized Steel Precision / Reflective Metals
Cutting Thickness	**0.5–25 mm** (0.020–0.984 in) Depends on model and operating pressure	**0.5–50 mm** (0.020–1.969 in)	**From 0.5 mm (0.020 in)** Up to the laser machine's cutting capacity
Energy Consumption	**15–45 kW (Compressor)** 20.12–60.35 hp	0.25 kW per m^3 of N_2 produced 0.0095 hp per ft^3 of N_2	0.3–0.7 kW per m^3 of N_2 produced 0.0114–0.0266 hp per ft^3 of N_2
Storage	**Integrated Tank**	**Integrated Tank**	**External Cylinder Bundles** (Scalable)
Typical User Need	Economical Standard Cutting	Automatic, Material-Based Settings with Medium Purity	High-Precision, High-Purity Cutting of Reflective / Special Metals

Note: Source energy figures are stated as kW per m^3 of N_2; imperial values are direct unit conversions. Confirm whether kWh/m^3 was intended. Conversion references: 1 bar = 14.5038 psi · 1 in = 25.4 mm · 1 kW = 1.3410 hp · 1 m^3 = 35.3147 ft^3.



NitroPlace

High purity Nitrogen producing systems



Open Type



Cube Type

NitroMix

Mixed gas producing systems



Open Type



Cube Type

NitroXweld

LAZER KAYNAK GAZI ÇÖZÜMLERI



AirPLACE

Air Cutting System



01 Modular Nitrogen Generators



Flexibility, Compactness, and Energy Efficiency Combined in Nitrogen Production.

NITROXTEC modular nitrogen generators offer businesses on-site, sustainable, and economical nitrogen production with their compact design, weld-free structure, and energy efficiency. They eliminate the need for gas cylinders or liquid nitrogen supply, enabling 24/7 uninterrupted high-purity nitrogen production.

Modular Nitrogen Generators

NITROXTEC's modular generators with advanced PSA (Pressure Swing Adsorption) technology offer adjustable high-purity nitrogen production up to 99.9999% in a compact structure that saves space. The weld-free modular body design eliminates the need for weld testing, simplifies maintenance, and extends system life.
Thanks to its modular architecture, capacity can be easily expanded to match growing production needs. Ideal for food packaging, pharmaceutical, electronics, laser cutting, and chemical applications.

Nitrogen Production

Model	95%		96%		97%		98%		99%		99.5%		99.9%		99.95%		99.99%		99.995%		99.999%	
	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM
MNT-01	10.00	5.89	8.90	5.24	7.90	4.65	6.90	4.06	5.25	3.09	4.25	2.50	2.95	1.74	2.50	1.47	2.00	1.18	1.45	0.85	1.05	0.62
MNT-02	19.75	11.62	17.75	10.45	15.75	9.27	13.75	8.09	10.50	6.18	8.50	5.00	5.90	3.47	5.00	2.94	4.00	2.35	2.90	1.71	2.15	1.27
MNT-03	39.50	23.25	35.50	20.89	32.00	18.83	27.50	16.19	21.00	12.36	17.00	10.01	11.75	6.92	10.00	5.89	8.00	4.71	5.75	3.38	4.40	2.59
MNT-04	59.25	34.87	53.25	31.34	47.25	27.81	41.25	24.28	31.50	18.54	25.50	15.01	17.65	10.39	15.00	8.83	12.00	7.06	8.65	5.09	6.40	3.77
MNT-05	79.00	46.50	71.00	41.79	63.00	37.08	55.00	32.37	42.00	24.72	34.00	20.01	23.50	13.83	20.00	11.77	16.00	9.42	11.50	6.77	8.50	5.00
MNT-06	98.75	58.12	88.75	52.24	78.75	46.35	68.75	40.46	52.50	30.90	42.50	25.01	29.40	17.30	25.00	14.71	20.00	11.77	14.40	8.48	10.65	6.27
MNT-07	138.25	81.37	124.25	73.13	110.75	65.19	96.25	56.65	73.50	43.26	59.50	35.02	41.15	24.22	35.00	20.60	28.00	16.48	20.25	11.92	15.00	8.83
MNT-08	177.65	104.56	159.75	94.03	142.75	84.02	123.75	72.84	94.50	55.62	76.50	45.03	52.90	31.14	45.00	26.49	36.00	21.19	25.90	15.24	20.00	11.77
MNT-09	217.15	127.81	195.25	114.92	174.75	102.85	151.25	89.02	115.50	67.98	93.50	55.03	64.65	38.05	55.00	32.37	44.00	25.90	31.65	18.63	25.00	14.71
MNT-10	256.50	150.97	230.75	135.81	206.75	121.69	178.75	105.21	136.75	80.49	110.50	65.04	76.40	44.97	65.00	38.26	52.00	30.61	37.40	22.01	30.00	17.66
MNT-11	295.90	174.16	266.25	156.71	238.75	140.52	206.25	121.39	157.75	92.85	127.50	75.04	88.00	51.79	75.00	44.14	60.00	35.31	43.15	25.40	35.00	20.60
MNT-12	335.25	197.32	303.00	178.34	270.75	159.36	233.75	137.58	178.75	105.21	144.50	85.05	99.25	58.42	85.00	50.03	68.00	40.02	48.90	28.78	40.00	23.54
MNT-13	434.00	255.44	390.50	229.84	349.50	205.71	302.50	178.04	231.25	136.11	187.00	110.06	128.65	75.72	110.00	64.74	88.00	51.79	63.25	37.23	50.65	29.81

Technical Specifications

Model	Length		Width		Height		Weight		Air Intake Connections (BSP Thread Size)	Electrical Power
	mm	in	mm	in	mm	in	kg	lb		
MNT-01	450	17.72	405	15.94	1120	44.09	110	242.5	1/2"	110-230 V AC 50-60 Hz 150 W
MNT-02	450	17.72	560	22.05	1520	59.84	200	440.9	1/2"	110-230 V AC 50-60 Hz 150 W
MNT-03	450	17.72	715	28.15	1520	59.84	208	458.6	1/2"	110-230 V AC 50-60 Hz 150 W
MNT-04	450	17.72	870	34.25	1520	59.84	259	571.0	3/4"	110-230 V AC 50-60 Hz 150 W
MNT-05	670	26.38	790	31.10	1750	68.90	289	637.1	1"	110-230 V AC 50-60 Hz 150 W
MNT-06	670	26.38	1010	39.76	1750	68.90	330	727.5	1"	110-230 V AC 50-60 Hz 150 W
MNT-07	670	26.38	1230	48.43	1750	68.90	400	881.8	1"	110-230 V AC 50-60 Hz 150 W
MNT-08	670	26.38	1450	57.09	1750	68.90	470	1036.2	1"	110-230 V AC 50-60 Hz 150 W
MNT-09	670	26.38	1670	65.75	1750	68.90	540	1190.5	1 1/2"	110-230 V AC 50-60 Hz 150 W
MNT-10	670	26.38	1890	74.41	1750	68.90	620	1366.9	1 1/2"	110-230 V AC 50-60 Hz 150 W
MNT-11	670	26.38	2110	83.07	1750	68.90	700	1543.2	1 1/2"	110-230 V AC 50-60 Hz 150 W
MNT-12	1000	39.37	1010	39.76	2000	78.74	820	1807.8	1 1/2"	110-230 V AC 50-60 Hz 150 W
MNT-13	1000	39.37	1230	48.43	2000	78.74	920	2028.3	1 1/2"	110-230 V AC 50-60 Hz 150 W

02 Nitrogen Generators

Produce Your Own Nitrogen in Your Own Facility

With its proven PSA (Pressure Swing Adsorption) technology, the NITROXTEC Nitrogen Generator delivers 24/7 uninterrupted nitrogen production with exceptional purity up to 99.9999% (6.0 grade). Designed for reliability and efficiency, it provides consistent high-purity nitrogen tailored to your specific process requirements, eliminating the need for gas cylinders or liquid nitrogen supply. Reduce costs, increase independence, and ensure continuous nitrogen availability for your operations.

NITROXTEC PSA Nitrogen Generators provide on-site nitrogen production ranging from 95% to 99.9999% (1 ppm) purity using advanced Pressure Swing Adsorption (PSA) technology with carbon molecular sieve (CMS). Thanks to the dual-tower structure, the system operates continuously, nitrogen production is uninterrupted, and gas quality is stable.

Nitrogen makes up 78% of air; the system separates nitrogen from oxygen and other gases to produce high-purity nitrogen suitable for sensitive applications. All generators are equipped with purity level monitoring sensors and automatic control infrastructure. The system is built with an automatic control system that will not store nitrogen gas in the tank until it reaches the target purity value after precise real-time measurement with a zirconium sensor. This ensures that the purity of the produced gas is always under control.



Nitrogen Production (Nm³/Hour)

Model	95%		96%		97%		98%		99%		99.5%		99.9%		99.95%		99.99%		99.995%		99.999%	
	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM	Nm³/hr	SCFM
NT-04	59.25	34.87	53.25	31.34	47.25	27.81	41.25	24.28	31.50	18.54	25.50	15.01	17.65	10.39	15.00	8.83	12.00	7.06	8.65	5.09	6.40	3.77
NT-05	79.00	46.50	71.00	41.79	63.00	37.08	55.00	32.37	42.00	24.72	34.00	20.01	23.50	13.83	20.00	11.77	16.00	9.42	11.50	6.77	8.50	5.00
NT-06	98.75	58.12	88.75	52.24	78.75	46.35	68.75	40.46	52.50	30.90	42.50	25.01	29.40	17.30	25.00	14.71	20.00	11.77	14.40	8.48	10.65	6.27
NT-07	138.25	81.37	124.25	73.13	110.75	65.19	96.25	56.65	73.50	43.26	59.50	35.02	41.15	24.22	35.00	20.60	28.00	16.48	20.25	11.92	15.00	8.83
NT-08	177.65	104.56	159.75	94.03	142.75	84.02	123.75	72.84	94.50	55.62	76.50	45.03	52.90	31.14	45.00	26.49	36.00	21.19	25.90	15.24	20.00	11.77
NT-09	217.15	127.81	195.25	114.92	174.75	102.85	151.25	89.02	115.50	67.98	93.50	55.03	64.65	38.05	55.00	32.37	44.00	25.90	31.65	18.63	25.00	14.71
NT-10	256.50	150.97	230.75	135.81	206.75	121.69	178.75	105.21	136.75	80.49	110.50	65.04	76.40	44.97	65.00	38.26	52.00	30.61	37.40	22.01	30.00	17.66
NT-11	295.90	174.16	266.25	156.71	238.75	140.52	206.25	121.39	157.75	92.85	127.50	75.04	88.00	51.79	75.00	44.14	60.00	35.31	43.15	25.40	35.00	20.60
NT-12	335.25	197.32	303.00	178.34	270.75	159.36	233.75	137.58	178.75	105.21	144.50	85.05	99.25	58.42	85.00	50.03	68.00	40.02	48.90	28.78	40.00	23.54
NT-13	434.00	255.44	390.50	229.84	349.50	205.71	302.50	178.04	231.25	136.11	187.00	110.06	128.65	75.72	110.00	64.74	88.00	51.79	63.25	37.23	50.65	29.81
NT-14	572.25	336.81	514.75	302.97	460.25	270.89	398.75	234.70	304.75	179.37	246.50	145.08	169.75	99.91	145.00	85.34	116.00	68.28	77.65	45.70	65.65	38.64
NT-15	749.90	441.37	674.50	397.00	603.00	354.91	522.50	307.53	399.25	234.99	323.00	190.11	222.65	131.05	190.00	111.83	152.00	89.46	103.50	60.92	85.65	50.41
NT-16	927.65	545.99	834.25	491.02	745.75	438.93	646.25	380.37	493.75	290.61	399.50	235.14	275.50	162.15	235.00	138.32	188.00	110.65	129.40	76.16	105.65	62.18
NT-17	1105.15	650.47	994.00	585.05	888.50	522.95	770.00	453.21	588.25	346.23	476.00	280.16	328.40	193.29	280.00	164.80	224.00	131.84	155.25	91.38	125.65	73.95
NT-18	1282.75	755.00	1153.75	679.07	1031.25	606.97	893.75	526.04	682.75	401.85	552.50	325.19	381.25	224.40	325.00	191.29	260.00	153.03	181.15	106.62	145.65	85.73
NT-19	1460.40	859.56	1313.50	773.10	1174.00	690.99	1017.50	598.88	777.25	457.47	628.75	370.07	434.15	255.53	370.00	217.77	296.00	174.22	207.00	121.84	165.65	97.50
NT-20	1677.50	987.34	1508.75	888.02	1348.75	793.85	1168.75	687.90	892.75	525.45	722.50	425.25	498.75	293.55	425.00	250.15	340.00	200.12	238.40	140.32	190.65	112.21
NT-21	1934.00	1138.31	1739.50	1023.83	1555.50	915.53	1375.00	809.30	1029.50	605.94	830.50	488.81	586.75	345.35	490.00	288.40	392.00	230.72	281.75	165.83	225.65	132.81
NT-22	2250.00	1324.30	2000.00	1177.16	1762.25	1037.22	1581.25	930.69	1166.25	686.43	943.50	555.32	674.75	397.14	555.00	326.66	444.00	261.33	324.90	191.23	260.65	153.41
NT-23	2625.00	1545.02	2250.00	1324.30	1969.00	1158.91	1787.50	1052.08	1303.00	766.92	1054.00	620.36	762.75	448.94	620.00	364.92	496.00	291.93	368.00	216.60	295.65	174.01

Technical Specifications

Model	Length		Width		Height		Weight		Air Intake Connection (BSP Thread Size)	Electrical Power
	mm	in	mm	in	mm	in	kg	lb		
NT-04	910	35.83	680	26.77	1640	64.57	266	586.4	1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-05	910	35.83	680	26.77	1760	69.29	300	661.4	3/4"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-06	1100	43.31	600	23.62	1800	70.87	400	881.8	1"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-07	1200	47.24	650	25.59	2000	78.74	500	1102.3	1"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-08	1300	51.18	700	27.56	1960	77.17	609	1342.6	1"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-09	1300	51.18	700	27.56	2150	84.65	700	1543.2	1 1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-10	1350	53.15	700	27.56	2100	82.68	800	1763.7	1 1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-11	1450	57.09	750	29.53	2000	78.74	900	1984.2	1 1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-12	1450	57.09	750	29.53	2200	86.61	1100	2425.1	1 1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-13	1580	62.20	880	34.65	2100	82.68	1350	2976.2	1 1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-14	1450	57.09	830	32.68	2250	88.58	1600	3527.4	1 1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-15	1600	62.99	1230	48.43	2360	92.91	2000	4409.2	2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-16	2000	78.74	1100	43.31	2400	94.49	2300	5070.6	2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-17	2000	78.74	1420	55.91	2440	96.06	2800	6172.9	2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-18	2200	86.61	1500	59.06	2500	98.43	3400	7495.7	2 1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-19	1600	62.99	2000	78.74	2360	92.91	4200	9259.4	2 1/2"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-20	2000	78.74	2100	82.68	2270	89.37	4800	10582.2	3"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-21	2000	78.74	2400	94.49	2310	90.94	5500	12125.4	3"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-22	2000	78.74	2400	94.49	2440	96.06	6000	13227.7	3"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp
NT-23	2230	87.80	2450	96.46	2520	99.21	7000	15432.4	3"	110–230 V AC, 50–60 Hz, 150 W / 0.20 hp

Nitrogen Generator Operating Conditions and Correction Factors

Operating Conditions — Metric and Imperial				
Compressed Air Inlet	7	bar(g)	101,53	psig
Ambient Temperature	25	°C	77,00	°F
Inlet Air Dew Point	3	°C	37,40	°F

Purity and Air / Gas Ratio — Compressed Air Inlet 7 bar(g) / 101.53 psig													
PURITY	95%	96%	97%	98%	99%	99.5%	99.9%	99.95%	99.99%	99.995%	99.999%	99.9995%	99.9999%
O_2	5%	4%	3%	2%	1%	0.5%	1000 ppm	500 ppm	100 ppm	50 ppm	10 ppm	5 ppm	1 ppm
AIR / GAS Ratio	1,8	2	2,1	2,3	2,5	2,6	3,2	3,5	3,9	4,5	5	7,5	8,5

Air Inlet Temperature Correction Factors										
Temperature (°C)	5	10	15	20	25	30	35	40	45	50
Temperature (°F)	41,0	50,0	59,0	68,0	77,0	86,0	95,0	104,0	113,0	122,0
Correction Factor	0,85	1,03	1,02	1	1	0,93	0,87	0,72	0,6	0,52

Inlet Pressure Air Correction Factors							
Pressure bar(g)	5	6	7	8	9	10	11
Pressure psig	72,52	87,02	101,53	116,03	130,53	145,04	159,54
Correction Factor	0,78	0,91	1	1,05	1,13	1,19	1,22

03 High Purity Nitrogen Cutting System (230-300 Bar)

Specific energy consumption: 0.3–0.7 kW per m^3 of nitrogen.

Specifically designed for fiber and CO_2 laser cutting machines, especially for high-precision cutting of all metals, such as stainless steel (SS), chrome, aluminum, copper, and galvanized metals.

Nitrogen Purity Range: 99.99% - 99.999%

NitroPlace
High purity Nitrogen producing systems

Open Type



Model	Nitrogen Generator Model	Laser Power (kW)	Length		Width		Height		Capacity at 99.99% N_2 Purity		Capacity at 99.995% N_2 Purity		Capacity at 99.999% N_2 Purity		Storage at 230 bar (3,336 psi) (12 × 50)		Storage at 300 bar (4,351 psi) (16 × 50)		Cylinder Bundle Count
			mm	in	mm	in	mm	in	Nm^3/h	SCFM	Nm^3/h	SCFM	Nm^3/h	SCFM	m^3	SCF	m^3	SCF	
Nitroplace 1	NT-05	1–3 kW	3500	137.80	1400	55.12	2100	82.68	16	9.42	11.5	6.77	8.5	5.00	138	4873.42	240	8475.52	1
Nitroplace 2	NT-06	4 kW	4100	161.42	1600	62.99	2100	82.68	20	11.77	14.4	8.48	10.65	6.27	276	9746.85	480	16951.04	2
Nitroplace 3	NT-07	6 kW	4100	161.42	1700	66.93	2240	88.19	28	16.48	20.25	11.92	15	8.83	414	14620.27	720	25426.56	3
Nitroplace 4	NT-08	8 kW	4300	169.29	1800	70.87	2240	88.19	36	21.19	25.9	15.24	20	11.77	414	14620.27	720	25426.56	3
Nitroplace 5	NT-09	10–12 kW	4300	169.29	1800	70.87	2240	88.19	44	25.90	31.65	18.63	25	14.71	552	19493.70	960	33902.08	4
Nitroplace 6	NT-10	15 kW	4500	177.17	1900	74.80	2440	96.06	52	30.61	37.4	22.01	30	17.66	552	19493.70	960	33902.08	4
Nitroplace 7	NT-11	20 kW	4500	177.17	1900	74.80	2440	96.06	60	35.31	43.15	25.40	35	20.60	552	19493.70	960	33902.08	4
Nitroplace 8	NT-12	30 kW	4650	183.07	1900	74.80	2440	96.06	68	40.02	48.9	28.78	40	23.54	828	29240.54	1440	50853.12	6
Nitroplace 9	NT-13	40 kW	4650	183.07	1900	74.80	2440	96.06	88	51.79	63.25	37.23	50.65	29.81	828	29240.54	1440	50853.12	6
Nitroplace 10	NT-14	50 kW	4800	188.98	2000	78.74	2440	96.06	116	68.28	77.65	45.70	65.65	38.64	1104	38987.39	1920	67804.16	8
Nitroplace 11	NT-15	60 kW	5000	196.85	2000	78.74	2540	100.00	152	89.46	103.5	60.92	85.65	50.41	1104	38987.39	1920	67804.16	8

"The given values are based on average consumption. They may vary depending on 24-hour operation or the laser brand."

04 High Purity Nitrogen Cutting System (230-300 Bar)

NitroPlace
High purity Nitrogen producing systems

Cube Type





Model	Nitrogen Generator Model	Laser Power (kW)	Length		Width		Height		Capacity at 99.99% N_2 Purity		Capacity at 99.995% N_2 Purity		Capacity at 99.999% N_2 Purity		Storage at 230 bar (3,336 psi) (12 × 50)		Storage at 300 bar (4,351 psi) (16 × 50)		Cylinder Bundle Count
			mm	in	mm	in	mm	in	Nm^3/h	SCFM	Nm^3/h	SCFM	Nm^3/h	SCFM	m^3	SCF	m^3	SCF	
Nitroplace 1	NT-05	1–3 kW	2000	78.74	1500	59.06	2100	82.68	16	9.42	11.5	6.77	8.5	5.00	138	4873.42	240	8475.52	1
Nitroplace 2	NT-06	4 kW	2000	78.74	1750	68.90	2100	82.68	20	11.77	14.4	8.48	10.65	6.27	276	9746.85	480	16951.04	2
Nitroplace 3	NT-07	6 kW	2200	86.61	1750	68.90	2200	86.61	28	16.48	20.25	11.92	15	8.83	414	14620.27	720	25426.56	3
Nitroplace 4	NT-08	8 kW	2200	86.61	1950	76.77	2200	86.61	36	21.19	25.9	15.24	20	11.77	414	14620.27	720	25426.56	3
Nitroplace 5	NT-09	10–12 kW	2200	86.61	1950	76.77	2200	86.61	44	25.90	31.65	18.63	25	14.71	552	19493.70	960	33902.08	4
Nitroplace 6	NT-10	15 kW	2400	94.49	1950	76.77	2200	86.61	52	30.61	37.4	22.01	30	17.66	552	19493.70	960	33902.08	4
Nitroplace 7	NT-11	20 kW	2400	94.49	2100	82.68	2400	94.49	60	35.31	43.15	25.40	35	20.60	552	19493.70	960	33902.08	4
Nitroplace 8	NT-12	30 kW	2600	102.36	2100	82.68	2400	94.49	68	40.02	48.9	28.78	40	23.54	828	29240.54	1440	50853.12	6
Nitroplace 9	NT-13	40 kW	2600	102.36	2200	86.61	2500	98.43	88	51.79	63.25	37.23	50.65	29.81	828	29240.54	1440	50853.12	6
Nitroplace 10	NT-14	50 kW	2600	102.36	2300	90.55	2500	98.43	116	68.28	77.65	45.70	65.65	38.64	1104	38987.39	1920	67804.16	8
Nitroplace 11	NT-15	60 kW	2800	110.24	2300	90.55	2500	98.43	152	89.46	103.5	60.92	85.65	50.41	1104	38987.39	1920	67804.16	8

"The given values are based on average consumption. They may vary depending on 24-hour operation or the laser brand."

05 NitroMix Gas Cutting System (25 - 40 Bar)

On-site Gas Mixing Systems

The Nitrogen mix gas generator suits fiber laser cutting machines of 8 kW and above, with a purity range of 95% - 99%. It offers three selectable modes — pure nitrogen, mixed-gas (nitrogen + oxygen), and dry clean air — with an optional auto-adjust feature that sets purity based on the metal selected (Mild Steel - Aluminum - Galvanized Steel - Cold Rolled Steel (DKP). Mixed-gas mode cuts up to 5x faster than pure oxygen, with better quality and less burr.

Nitrogen Purity Range : 95% - 99%

Automatic purity adjustment based on the selected metal type.

NitroMix
Mixed gas producing systems

Open Type



Model	Nitrogen Generator Model	Length		Width		Height		Capacity at 95% N_2 Purity (5% O_2)		Capacity at 96% N_2 Purity (4% O_2)		Capacity at 97% N_2 Purity (3% O_2)		Capacity at 98% N_2 Purity (2% O_2)		Capacity at 99% N_2 Purity (1% O_2)	
		mm	in	mm	in	mm	in	Nm^3/h	SCFM	Nm^3/h	SCFM	Nm^3/h	SCFM	Nm^3/h	SCFM	Nm^3/h	SCFM
NitroMix 1	NT-7	1500	59.06	1400	55.12	2100	82.68	139	81.81	125	73.57	111	65.33	97	57.09	74	43.55
NitroMix 2	NT-8	5100	200.79	1600	62.99	2100	82.68	178	104.77	160	94.17	143	84.17	124	72.98	95	55.91
NitroMix 3	NT-9	5100	200.79	1700	66.93	2240	88.19	218	128.31	196	115.36	175	103.00	152	89.46	115	67.69
NitroMix 4	NT-10	5500	216.54	1900	74.80	2440	96.06	256	150.68	231	135.96	207	121.84	179	105.36	137	80.64
NitroMix 5	NT-11	5500	216.54	1900	74.80	2440	96.06	295	173.63	266	156.56	238	140.08	206	121.25	157	92.41
NitroMix 6	NT-12	6300	248.03	2000	78.74	2440	96.06	335	197.17	303	178.34	270	158.92	233	137.14	179	105.36
NitroMix 7	NT-13	6500	255.91	2000	78.74	2540	100.00	434	255.44	390	229.55	349	205.41	302	177.75	231	135.96
NitroMix 8	NT-14	6800	267.72	2200	86.61	2450	96.46	572	336.67	514	302.53	460	270.75	398	234.25	304	178.93

06 NitroMix Gas Cutting System (25 - 40 Bar)

NitroMix
Mixed gas producing systems

Cube Type



Model	Nitrogen Generator Model	Length		Width		Height		Capacity at 95% N_2 Purity (5% O_2)		Capacity at 96% N_2 Purity (4% O_2)		Capacity at 97% N_2 Purity (3% O_2)		Capacity at 98% N_2 Purity (2% O_2)		Capacity at 99% N_2 Purity (1% O_2)	
		mm	in	mm	in	mm	in	Nm^3/h	SCFM	Nm^3/h	SCFM	Nm^3/h	SCFM	Nm^3/h	SCFM	Nm^3/h	SCFM
NitroMix 1	NT-7	2500	98.43	1500	59.06	2100	82.68	139	81.81	125	73.57	111	65.33	97	57.09	74	43.55
NitroMix 2	NT-8	2500	98.43	1750	68.90	2100	82.68	178	104.77	160	94.17	143	84.17	124	72.98	95	55.91
NitroMix 3	NT-9	2700	106.30	1750	68.90	2200	86.61	218	128.31	196	115.36	175	103.00	152	89.46	115	67.69
NitroMix 4	NT-10	2900	114.17	1950	76.77	2200	86.61	256	150.68	230	135.37	206	121.25	178	104.77	137	80.64
NitroMix 5	NT-11	3400	133.86	2100	82.68	2400	94.49	295	173.63	266	156.56	238	140.08	206	121.25	157	92.41
NitroMix 6	NT-12	3400	133.86	2300	90.55	2500	98.43	335	197.17	303	178.34	270	158.92	233	137.14	179	105.36
NitroMix 7	NT-13	3600	141.73	2300	90.55	2500	98.43	434	255.44	390	229.55	349	205.41	302	177.75	231	135.96
NitroMix 8	NT-14	4000	157.48	2300	90.55	2500	98.43	572	336.67	514	302.53	460	270.75	371	218.36	304	178.93

07 Deoxy Nitrogen Purification Units



Take Your Own Nitrogen to Ultra Purity

Elevate Your Nitrogen to Ultra-Purity.
The NITROXTEC Deoxy Purification Unit boosts the 99.9% pure nitrogen from your PSA generator to 99.9999% (1 ppm O_2) to deliver ultra-high purity, dry, and oxygen-free nitrogen. With its compact structure, low energy consumption, and intelligent automation system, it provides safe, economical, and uninterrupted gas supply for your processes.

Nitrogen Production

Model	Input Purity 99.5%		Input Purity 99.9%	
	Output: 99.999% (5.0) — 10 ppm O_2		Output: 99.9995–99.9999% (5.5–6.0) — 5–1 ppm O_2	
	Nm³/hr	SCFM	Nm³/hr	SCFM
Deoxy 01	3.40	2.00	2.35	1.38
Deoxy 02	6.80	4.00	4.70	2.77
Deoxy 03	13.60	8.00	9.40	5.53
Deoxy 04	20.40	12.01	14.10	8.30
Deoxy 05	27.20	16.01	18.80	11.07
Deoxy 06	34.00	20.01	23.50	13.83
Deoxy 07	47.60	28.02	32.90	19.36
Deoxy 08	61.20	36.02	42.30	24.90
Deoxy 09	74.80	44.03	51.70	30.43
Deoxy 10	88.40	52.03	61.10	35.96
Deoxy 11	102.00	60.03	70.40	41.44
Deoxy 12	115.60	68.04	79.40	46.73
Deoxy 13	149.60	88.05	102.90	60.56
Deoxy 14	197.20	116.07	135.80	79.93
Deoxy 15	258.40	152.09	178.10	104.83
Deoxy 16	319.60	188.11	220.40	129.72
Deoxy 17	380.80	224.13	262.70	154.62
Deoxy 18	442.00	260.15	305.00	179.52
Deoxy 19	503.00	296.05	347.30	204.41
Deoxy 20	578.00	340.20	399.00	234.84
Deoxy 21	664.40	391.05	469.40	276.28
Deoxy 22	754.80	444.26	539.80	317.71
Deoxy 23	843.20	496.29	610.20	359.15

08 Portable Nitrogen Generator *for Laser Welding Machines*



Product Description

The NITROXTEC Portable Nitrogen Generator is a compact, mobile solution designed for laser welding applications.
Using PSA technology, it produces high-purity nitrogen without external cylinders, storage tanks, or additional air-treatment systems.

Features

- Indoor and outdoor use
- Instant on-site nitrogen, no cylinders
- No external filters or dryers
- Automatic, energy-saving operation
- Low maintenance and operating cost
- 3–4 month ROI

Applications

- Handheld and automatic laser welding machines
- Welding of carbon steel, stainless steel, aluminum, titanium, and oxidation-sensitive metals
- Automotive, manufacturing, metal processing, shipbuilding, and defense industries



NitroxWeld 1 is designed to operates one unit for a 1.5-2 kW laser welding machine.
NitroxWeld 2 is designed to operates two units for a 2-3 kW laser welding machine.
NitroxWeld 3 is designed to operates three units for a 3 kW and above laser welding machine.

Technical Specifications

Parameter	Specification
Technology	Automatic operation PSA (Pressure Swing Adsorption) Touchscreen PLC (fully automatic)
Inlet Air	7–8 bar +3°C Dewpoint 0.30–0.40 m^3/min
Nitrogen Purity	99.99%
Nitrogen Outlet Pressure	7–8 bar (adjustable according to machine requirements)
Power Supply	220 V 50-60 Hz
Operating Temperature	+5°C to +45°C

09 AIRPLACE Air Cutting System (10 - 20 Bar)



Model	Compressor Power Consumption		Air Flow at 16 bar (232 psi)				Fiber Laser Cutting Machine Power		Compatible Materials	Cutting Thickness	
	kW	hp eq.	m³/min	CFM	m³/h	ft³/h	kW	hp eq.		mm	in
AirPlace 1	15	20.12	1.5	52.97	90	3178.32	1–3	1.34–4.02	Carbon Steel, Aluminum, Galvanized Steel, DKP (Cold-Rolled Steel) and Similar Materials	0.5–3	0.020–0.118
AirPlace 2	22	29.50	2.2	77.69	132	4661.54	4–6	5.36–8.05	Carbon Steel, Aluminum, Galvanized Steel, DKP (Cold-Rolled Steel) and Similar Materials	0.5–6	0.020–0.236
AirPlace 3	37	49.62	3.3	116.54	198	6992.30	8–12	10.73–16.09	Carbon Steel, Aluminum, Galvanized Steel, DKP (Cold-Rolled Steel) and Similar Materials	0.5–10	0.020–0.394
AirPlace 4	45	60.35	4.1	144.79	246	8687.41	20–30	26.82–40.23	Carbon Steel, Aluminum, Galvanized Steel, DKP (Cold-Rolled Steel) and Similar Materials	0.5–25	0.020–0.984

Compressor Energy Consumption & Fiber Laser Cutting Machine Power (10-20 Bar)

Notes:

- Laser cutting machine brand and model may vary depending on technical specifications.
- Flow Rate at 16 Bar: Compressor flow rates are given in cubic meters per minute (m³/min) and have been converted to cubic meters per hour (m³/hour) for 16 Bar pressure.
- Fiber Laser Cutting Machine Power: The power rating varies depending on the material and its thickness at 16 Bar
- Material Types: Includes carbon steel, aluminum, galvanized steel, DKP, and similar materials.
- Cutting Thickness: Depending on laser power, cutting thickness can range from 0.5 mm up to 25 mm, adjusted based on the material and laser specifications.

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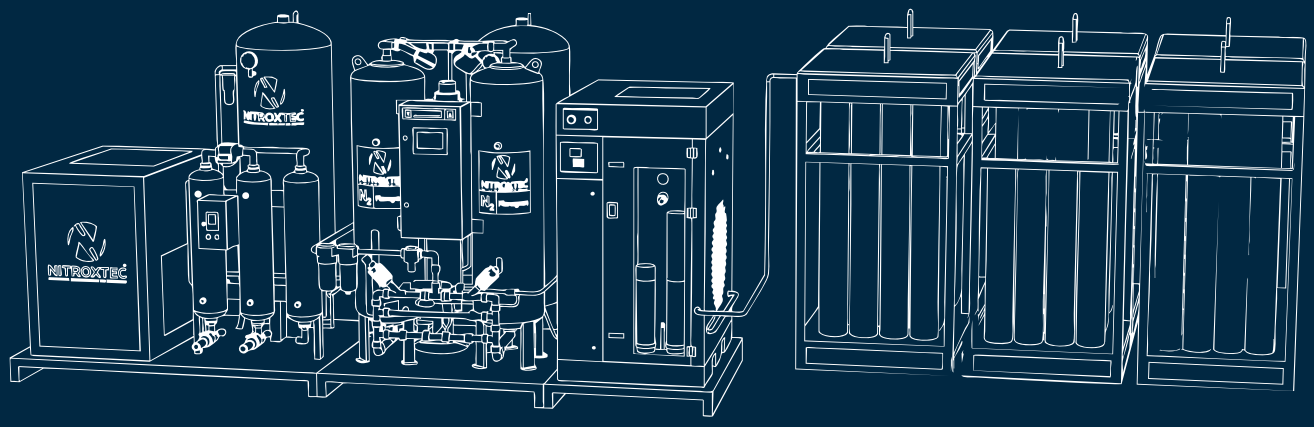
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