

MODEL	DIMENSIONS (mm)			WEIGHT (kg)	AIR INLET & OUTLET CONNECTIONS	POWER SUPPLY
	Length	Width	Height			
ONG-1	400	300	1000	45	1/4"	230 V AC 50-60 HZ 250 W
ONG-2	450	350	1150	60	1/4"	230 V AC 50-60 HZ 250 W
ONG-3	450	400	1250	80	1/2"	230 V AC 50-60 HZ 250 W
ONG-4	500	450	1350	100	1/2"	230 V AC 50-60 HZ 250 W
ONG-5	650	450	1350	120	1/2"	230 V AC 50-60 HZ 250 W
ONG-6	700	450	1450	145	3/4"	230 V AC 50-60 HZ 250 W
ONG-7	850	550	1500	210	3/4"	230 V AC 50-60 HZ 250 W
ONG-8	950	600	1650	270	3/4"	230 V AC 50-60 HZ 250 W
ONG-9	1000	650	1750	330	1"	230 V AC 50-60 HZ 250 W
ONG-10	1100	700	1900	400	1"	230 V AC 50-60 HZ 250 W
ONG-11	1100	700	2100	470	1"	230 V AC 50-60 HZ 250 W
ONG-12	1100	800	2300	540	1 1/4"	230 V AC 50-60 HZ 250 W
ONG-13	1200	950	2350	690	1 1/2"	230 V AC 50-60 HZ 250 W
ONG-14	1350	1000	2350	850	1 1/2"	230 V AC 50-60 HZ 250 W
ONG-15	1450	1000	2450	1100	1 1/2"	230 V AC 50-60 HZ 250 W
ONG-16	1800	1020	2550	1600	1 1/2"	230 V AC 50-60 HZ 250 W
ONG-17	1820	1050	2600	2000	2"	230 V AC 50-60 HZ 250 W
ONG-18	1900	1110	2650	2700	2"	230 V AC 50-60 HZ 250 W
ONG-19	2000	1200	2650	3300	2"	230 V AC 50-60 HZ 250 W
ONG-20	2150	1400	2650	4000	2 1/2"	230 V AC 50-60 HZ 250 W
ONG-21	2250	1600	2700	4850	2 1/2"	230 V AC 50-60 HZ 250 W
ONG-22	2400	1750	2700	5500	3"	230 V AC 50-60 HZ 250 W
ONG-23	2500	1900	2700	6300	3"	230 V AC 50-60 HZ 250 W



## ONG Series

For Nitrogen Production Any Time, Anywhere:  
Özen Kompresör ONG Nitrogen Generator



## Özen Kompresör ONG Series Nitrogen Generators:

Designed for maximum performance and to generate nitrogen continuously. The nitrogen generator uses compressed air as raw material passing it through an adsorbent carbon molecular sieve using the PSA (Pressure Swing Adsorption) process. Nitrogen molecules make up 78% of the air. Pure nitrogen is obtained by separating them from the oxygen and argon in the air with a carbon molecular sieve (CMS).

The ONG Series Nitrogen Generator is the ideal solution for many industries such as chemicals, foods, laser cutting, electronics, aerospace, mining, and pharma by meeting the need for a reliable and cost-effective nitrogen system. Manufactured using 100% "Purity Control" technology, Özen Kompresör nitrogen generators stand out with their original design and superior technology. They are more efficient than other nitrogen generators on the market and generate more nitrogen at maximum purity using less compressed air. The low operating and maintenance costs help increase your business's efficiency.

### ADVANTAGES

- Continuous nitrogen production in your operation
- 95-99.999% (1 ppm) purity in the 0,5-2,100 Nm<sup>3</sup>/h capacity range.
- Highly efficient nitrogen production at the purity you need.
- PSA technology guarantees the best return on your investment.
- Carbon molecular technology ensures a high degree of purity.
- Allows you to work 24/7.
- Low maintenance costs and long uptimes.
- No more filling and transfer costs.
- Starts automatically when nitrogen is needed at the plant and automatically goes into waiting mode when not needed.
- Starts and stops automatically based on nitrogen consumption.
- Long-lasting high-quality zirconium dioxide sensor continually measures gas purity.
- Will not send nitrogen to the plant until it reaches the intended purity.

### LOW AIR FACTOR

- High-Quality CMS
- Lowest air/gas factor
- Air consumption to the extent required
- High-capacity nitrogen production with lower-capacity compressors
- Low energy consumption, economical nitrogen production
- Optional hydrogen-assisted nitrogen purification unit solutions for energy conservation

### FEATURES

- Superior Siemens PLC and touchscreen control panel
- 4"-7" colour touchscreen display
- Supports 7 different languages
- +14 sensor inputs
- Long-lasting zirconium dioxide oxygen/nitrogen sensor.
- Modbus/Profibus/RMB Hub box remote access, monitoring, and data collection, IP55 protection standards
- Long-life pneumatic control valves
- Dewpoint measurement (optional) on the air inlet

### SERVICE AND MAINTENANCE ADVANTAGES

- Spare valve set
- Continuous production guarantee
- Ease of maintenance
- Easy to check
- Guaranteed leak-proof valve connections
- Long-lasting and robust piston valves and problem-free continuous production
- Stainless steel connectors and pipes

MODEL	95%	96%	97%	98%	99%	99,50%	99,90%	99,95%	99,99%	99,995%	99,999%	99,9995%	99,9999%
ONG-1	8	7,1	6,3	5,5	4,2	3,4	2,35	2	1,6	1,15	0,85	0,75	0,5
ONG-2	15,8	14,2	12,6	11	8,4	6,8	4,7	4	3,2	2,3	1,70	1,5	1
ONG-3	31,6	28,4	25,6	22	16,8	13,6	9,4	8	6,4	4,6	3,5	3	2,1
ONG-4	47,4	42,6	37,8	33	25,2	20,4	14,1	12	9,6	6,9	5,1	4,5	3,2
ONG-5	63,2	56,8	50,4	44	33,6	27,2	18,8	16	12,8	9,2	6,8	6	4,5
ONG-6	79	71	63	55	42	34	23,5	20	16	11,5	8,5	7,5	6
ONG-7	110,6	99,4	88,6	77	58,8	47,6	32,9	28	22,4	16,22	12	10,5	8,1
ONG-8	142,1	127,8	114,2	99	75,6	61,2	42,3	36	28,8	20,7	16	13,5	11
ONG-9	173,7	156,2	139,8	121	92,4	74,8	51,7	44	35,2	25,3	20	16,6	13
ONG-10	205,2	184,6	165,4	143	109,4	88,4	61,1	52	41,6	29,9	24	19,5	15
ONG-11	236,7	213	191	165	126,2	102	70,4	60	48	34,5	28	22,5	18
ONG-12	268,2	241,4	216,6	187	143	115,6	79,4	68	54,4	39,1	32	25,5	21
ONG-13	347,2	312,4	279,6	202	185	149,6	102,9	88	70,4	50,6	40,5	33	27
ONG-14	457,8	411,8	368,2	319	243,8	197,2	135,8	116	92,8	62,1	52,5	43,5	35
ONG-15	599,9	539,6	482,4	418	319,4	258,4	178,1	152	121,6	82,8	68,5	57	45
ONG-16	742,1	667,4	596,6	517	395	319,6	220,4	188	150,4	103,5	84,5	70,5	55
ONG-17	884,1	795,2	710,8	616	470,6	380,8	262,7	224	179,2	124,2	100,5	84	64
ONG-18	1026,2	923	825	715	546,2	442	305	260	208	144,9	116,5	97,6	74
ONG-19	1168,3	1050,8	939,2	814	621,8	503	347,3	296	236,8	165,6	132,5	111	84
ONG-20	1342	1207	1079	935	714,2	578	399	340	272	190,7	152,5	127,5	96
ONG-21	1547,2	1391,6	1244,4	1100	823,6	664,4	469,4	392	313,6	225,4	180,5	150	113
ONG-22	1800	1600	1409,8	1265	933	754,8	539,8	404	355,2	259,9	208,5	172,5	129
ONG-23	2100	1800	1575,2	1430	1042,4	843,2	610,2	496	396,8	294,4	236,5	194,5	145

COMPRESSED AIR INLET (8 BAR)													
Nitrogen Purity	95%	96%	97%	98%	99%	99,50%	99,90%	99,95%	99,99%	99,995%	99,999%	99,9995%	99,9999%
O <sub>2</sub>	5%	4%	3%	2%	1%	0,50%	1000 ppm	500 ppm	100 ppm	50 ppm	10 ppm	5 ppm	1 ppm
Air/Nitrogen Ratio	1,8	2	2,1	2,3	2,5	2,8	3,3	3,6	4	5,8	6,4	7,7	8,9
AMBIENT TEMPERATURE +25°C							INLET AIR DEWPOINT +3°C						

AIR INLET TEMPERATURE CORRECTION FACTORS									
5C	10C	15C	20C	25C	30C	35C	40C	45C	50C
0,85	1,03	1,02	1	1	0,93	0,87	0,72	0,6	0,52

INLET PRESSURE AIR CORRECTION FACTORS						
5 BAR	6 BAR	7 BAR	8 BAR	9 BAR	10 BAR	11 BAR
0,75	0,83	0,91	1	1,13	1,19	1,22

