

DECLARATION

We **İDEAL MAKİNA ENDÜSTRİ ÜRÜNLERİ SAN. VE TİC. A.Ş.**, who are official manufacturers of Oxygen Generator System & accessories, IDEAL MAKİNA Company having factories at Emek, Ordu Cd. No:16, 34785 Dudullu Osb/Sancaktepe/İstanbul do hereby confirm that the offered **IDEAL IM-GO 120 OXYGEN GENERATOR SYSTEM** with all of its components, work altogether efficiently. Thus the combination between the air compressor & air dryer & filters, allows the adequate generation of compressed air necessary for the oxygen generator with the pressure, temperature, flow necessary for creating oxygen of 93%±3.

Alpaslan Tekin
General Manager
Dated on 10.02.2023

idealMakina®
İDEAL MAKİNA END. ÜRÜN. SAN. VE TİC. A.Ş.
Esenkent Mh. Nato Yolu Cd. No:17/18 34776 Ümraniye-İST.
Sarıgazi V.D 470 097 1528 Tic. Sic. No: 530388
www.idealmakina.com

DECLARATION

compliance with the parameters of the **Dalgakıran Inversys 22 Plus Compressor** of the
IDEAL IM-GO 120 Oxygen Generator System

This certifies that the compressor with the parameters specified in the table will provide the necessary amount of compressed air with the specified working pressure and flow for the needs of the oxygen generator: **IDEAL IM-GO 120 Oxygen Generator**

Name parameters	Characteristics
Model	INVERSYS 22 PLUS
Compressor type	Variable Speed Direct Drive Screw Air Compressor
Maximum air pressure	10 bar
Compressed air capacity	78 – 228 m ³ /h
Nominal pressure, bar	9,5 bar
Performance regulation	Using a frequency converter
Power of the main drive, kW	22
Supply voltage/current frequency, V/Hz	380/50
Compressor cooling	Air
Compressor drive	Direct Drive

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DECLARATION

compliance with the parameters of the **Friulair AMD 52 Refrigerant Dryer** of the **IDEAL IM-GO 120 Oxygen Generator System**

This certifies that the refrigerating dryer with the parameters specified in the table will provide drying of the compressed air produced by the screw compressor **INVERSYS 22 PLUS** for the needs of the oxygen generator: **IDEAL IM-GO 120 Oxygen Generator**

Name parameters	Characteristics
Model	FRIULAIR AMD 52 REFRIGERANT AIR DRYER
Type of dryer	Refrigerant dryer
Working environment	Compressed atmospheric air
Dryer capacity	312 Nm ³ /h
Dew point temperature (at a temperature of compressed air at the inlet of 35°C and a pressure of 7 bar),	3°C
Maximum air pressure	14 bar
Maximum air temperature at the entrance to the dryer	55°C
Supply voltage/frequency, V/Hz	220/50
Nominal Electric Consumption	720 W – 3.3 A
Cooling	Air
Cooling Air Flow	400 m ³ /h

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DECLARATION

compliance with the parameters of the **filtration system** of the **IDEAL IM-GO 120 Oxygen Generator System**

This certifies that the number and brand of filters, depending on the type of filter elements with the parameters specified in the table, will ensure the required air purity class at the entrance to the **IDEAL IM-GO 120 Oxygen Generator**.

Filters;

Name parameters	Characteristics
Model	IDEAL AF0306M, IDEAL AF0306P, IDEAL AF0306S,
Working environment	Compressed air
Maximum working pressure	16 bar
Capacity	335 Nm ³ /h
Degree of filtration of filter elements,	type M – 0,1 µm type P – 3 µm type S – 0,01 µm


Carbon tower;

Name parameters	Characteristics
Model	IDEAL ICT 250,
Working environment	Compressed air
Maximum working pressure	16 bar
Capacity	250 Nm ³ /h
Residual oil vapour content	<0,003 µm

Antibacterial Filter;

Name parameters	Characteristics
Model	WALKER A30085MS,
Working environment	Compressed air
Maximum working pressure	16 bar
Capacity	144 Nm ³ /h
DOP efficiency	>99.9999%

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DECLARATION

compliance with the parameters of the **İdeal IM-GO 120 Oxygen Generator** of the **IDEAL IM-GO 120 Oxygen Generator System**

This certifies that the oxygen generator with the parameters specified in the table will provide the necessary amount of oxygen gas with the specified parameters of tender specifications.

Name parameters	Characteristics
Model	IDEAL IM-GO 120 OXYGEN GENERATOR
The method of obtaining oxygen	PSA – Pressure Swing Adsorption
The required class of air cleanliness at the entrance in accordance with ISO 8573-1-2013	1.4.1
The final product	Oxygen Gas
Capacity	11,5 Nm ³ /h
Oxygen purity	93±3%
Oxygen pressure	5-6 bar
Power	0,15 kW
Supply voltage/frequency, V/Hz	220/50
Adsorbent	Zeolite
*Service life of zeolite	60000 hours
Volume of each column	270 L

*Service life under conditions of compliance with the class of air cleanliness at the entrance to the oxygen generator class 1.4.1 according to ISO 8573-1-2013.

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