

Iraq Rebuilding Office – Scandinavia

مكتب اعادة اعمار العراق – أسكندينافيا

Trade consultant, sale & troubleshooting

استشارات هندسية / طبية ووكالات تجارية عالمية



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عرض تجاري بمصنع أنتاج وتعبئة غاز الاوكسجين السائل سعة 50 متر مكعب/الساعة

PACKAGED PLANT FOR THE PRODUCTION AND BOTTLING OF OXYGEN GAS 50 m³/h

Produced by means of Molecular Sieves System

Plant Model: SM/02/50/150

Having the following main characteristics:

- Hourly Capacity	50 Nm ³ /h of Oxygen (maximum)
- Daily Production	1200 Nm ³ of Oxygen
- Concentration	97%-92% of O ₂ and other inert gases
-	Purity : 96%±1% (free from CO ₂ and SO ₂) at 50% of the capacity
- Compressed Air Consumption	1200 Nm ³ /h at pressure of 7 bar
- Electric Input	100 kW + 38 kW
- Voltage	three phases V 380 / 50 Hz
- O ₂ Compression	150 bars
- The plant is assembled on 3 Skids with the following dimensions (mm.)	
	5.700 x 2.100 x 2.200H approx.
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- Weight	9.600 kg. approx.

Sales Conditions:

Packing: n° 3 (20 ft.) containers of the Customer

Terms: FOB Livorno-La Spezia Port

Delivery: 4 months from the order implementation (August excluded)

Payment: By IRREVOCABLE AND CONFIRMED DOCUMENTARY CREDIT – i.e. 30% with the order, 65% at sight in Italy against shipping documents, the balance of 5% will be paid within 30 days from the test of the plant at the Customer's site or within the final date of 4 months from the shipping date.

CHARACTERISTICS

Molecular Sieves Plant for the production of Oxygen and Compression inside cylinders at 150 bar Technical characteristics Plant Type: SM/02/50/150

- | | |
|------------------------------|---|
| • Hourly Capacity | 50 Nm ³ /h of Oxygen (maximum) |
| • Daily Production | 1200 Nm ³ of Oxygen approx. |
| • Concentration | 97%-92% of O ₂ and other inert gases |
| • Purity | 96%±1% (free from CO ₂ and SO ₂)
at 50% of the capacity |
| • Compressed Air Consumption | 1200 Nm ³ /h at 7 bars pressure |
| • Electric Input | kW 100 + kW 38 |
| • Voltage | Three phases V 380 / 50 Hz |
| • O ₂ Compression | 150 bar |
| • Oil separator filter | for 1200 Nm ³ /h |
| • Plant assembled on 3 Skids | |
| | with following dimensions (mm.)5.700 x 2.100 x 2.200H approx. |
| | 5.700 x 2.100 x 2.200H approx. |
| | 5.700 x 2.100 x 2.200H approx. |
| • Weight | 9.600 kg |
| • | |

PLANT ASSEMBLED ON SKID

Plant description

The plant, having the a.m. characteristics, is made up of the following main parts:

- 5 Generators which work in parallel, consisting in:
 - ⇒ a group of adsorbers ready to operate, which works alternatively, complete with control valves and connecting lines;
 - ⇒ an electric control for the carrying out of the process steps including the control detectors and also a change-over switch for the automatic or continuous operation;
 - ⇒ an adjustable device for the setting of the oxygen pressure and of the delivered quantity meter;
 - ⇒ an oxygen delivery valve and hoses connected to the oxygen tanks;
 - ⇒ tanks for the oxygen pressure stabilization, reserved tanks and coupled hoses with connections to generators;
 - ⇒ compressed air connections including a closed-packed filter, a standard filter, a pressure reduction device, safety valves and automatic condensate drainage valves.
- 1 COMPRESSOR 38 kW/150 bars, to boost the pressure from 3,5 to 150 bars for cylinders filling;
- 1 AIR COMPRESSOR 100 KW/7 bars for the generation feeding;
- n° 8+8 cylinder seats;
- safety devices, automatic switch-off devices, pressure switches, etc.;
- n° 3 SUPPORTING SKIDS with the above mentioned already assembled;
- Oil Separator Filter (it is made up of a glass containing a replaceable cartridge which prevents the oil from arriving to the chemical material of the molecular sieves. This oil could arrive from the air compressor).
- Buffer Tank: 5000 L. including accessories
- Central Control Box with P.L.C.
- Oxygen Analyzer

Photos

