

## 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 إنتاج وتعبئة غاز الاوكسجين السائل سعة 100 متر مكعب/الساعة

#### **PACKAGED PLANT FOR THE PRODUCTION AND BOTTLING OF OXYGEN GAS 100 m<sup>3</sup>/h**

Produced by means of Molecular Sieves System

Plant Model: SM/02/100/150

#### **Having the following main characteristics:**

- Hourly Capacity : 100 Nm<sup>3</sup>/h of Oxygen
- Daily Production : 2200 Nm<sup>3</sup> of Oxygen
- Concentration : 97%-90% of O<sub>2</sub> and other inert gases
- Purity : 96%±1 (free from CO<sub>2</sub> e SO<sub>2</sub>)  
at 50% of the capacity
- Compressed Air Consumption : 2500 Nm<sup>3</sup>/h at pressure of 6 bars
- Electric Input : 210 kW + 66 kW
- Tension : three phases V 380 / 50 Hz
- O<sub>2</sub> Compression : 150 bars
- Oil Separator Filter : for 150 Nm<sup>3</sup>/h
- Dimensions (mm) 5 SKIDS : 5.700 x 2.100 x H = 2.200 approx. (each skid)
- Weight : 16.700 kg

#### **Sales Conditions:**

*Packing:* n° 5 (20 ft.) containers of the Customer

*Terms:* FOB Livorno-La Spezia Port

*Delivery:* 5 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/02/100/150

• Hourly Capacity	100 Nm <sup>3</sup> /h of Oxygen
• Daily Production	2200 Nm <sup>3</sup> of Oxygen approx.
• Concentration	97-90% of O <sub>2</sub> and other inert gases
• Purity	96% ± 1 % (free from CO <sub>2</sub> and SO <sub>2</sub> )
	at 50% of the capacity
• Compressed Air Consumption	2500 Nm <sup>3</sup> /h at 6 bars pressure
• Electric Input	kW 210 + kW 66
• Voltage	Three phases V 380 / 50 Hz
• O <sub>2</sub> Compression	150 bars
• Oil separator filter	for 2100 Nm <sup>3</sup> /h
• Dimensions	
Plant assembled on 5 SKIDS	5.700 x 2.100 x 2.200 approx.
• Weight	16.700 kg
PLANT ASSEMBLED ON SKID	

#### Plant description

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

- 9 Generators which works 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 66 KW/150 bars, to boost the pressure from 3,5 to 150 bars for cylinders filling;
- 2 AIR COMPRESSORS 2x105 kW/7 ,5 bars for the generation feeding;
- 1 AIR STOCKAGE TANK with capacity 5.000 litres;
- 1 OXYGEN STOACKAGE TANK with capacity 2.000 litres;
- n° 12 + 12 cylinder seats;
- safety devices, automatic switch-off devices, pressure switches, etc.;
- n° 5 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).

# Photos

