



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

For Our Clients in Libya

50Nm³ / h 93±2% PSA oxygen generation system

PSA-O₂ technical proposal

شركة ميزة للإستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Overall structure of oxygen generator:

Equipment flow chart



Functions of oxygen plant:

1. Valve switching is automatically controlled by PLC;
2. On line monitoring of oxygen purity;
3. Adjustable oxygen flow;
4. Oxygen pressure adjustable;
5. Reserve the communication interface (RS485) of PLC to communicate with the buyer's upper computer.

شركة ميزة للإستيراد والتصدير

Miza Company For Import & Export




Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

BWfy-50/93±2 oxygen generator

Item	Equipment name	Performance, parameters	Picture	number	Price (USD)
1. air	Screw air compressor	1. Brand: shanghaijianpa 2. Model: JP-125A 3. Exhaust pressure: 8bar 4. Exhaust volume: 15.0m ³ /min 5. Cooling mode: air cooling 6. Motor power: 90KW 7. Power supply: 380V / 50Hz 3-phase		1	9063.00
	Air buffer tank	C-1.5/8 1. Volume: 1.5m ³ 2. Working pressure: 8bar Including: pressure vessel certificate, safety valve, blowdown valve, pressure gauge		2	1250.00
2. Air purification	Oil separator	XF9-40		1	156.00
	Fine filter	XF7-40		1	156.00

شركة ميذا للاستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

	Freeze dryer	SL-125AC	1. flow: 15.1m ³ /min 2. working pressure: 10bar 3. dew point: -20°C ~ -60°C 4. oil content: <0.001ppm 5. dust particles: <0.01um 6. power supply: 3.5KW 380V/50Hz 3phase		1	1875.00
	Dust fine filter	XF5-40	7. filter element form land (USA), life time ≥ 6000h 8. Includes: automatic drainer 9. Remove moisture from the air		1	156.00
	Carbon filter	XF3-40			1	156.00
	Micro heat adsorption dryer	SL-30			1	3813.00

شركة ميذا للاستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

3. Oxygen generator	Oxygen flow	50Nm ³ /h		1	26624.00
	Oxygen concentration	≥ 93%			
	Flow measurement method	Rotameter			
	Outlet pressure	≤ 4bar			
	Dew point	≤ -45°C			
	Power supply	380V/50Hz			
	System power	200w			
	Control system PLC	Siemens Germany			
Oxygen concentration detector	P950				
	Sterilization filter	Sterilization precision: 99.9999% Material: 304 stainless steel Sterilization and precision are a group		1	785.00
4. Oxygen storage tank	C-1.0/8	1.Volume: 1.0m ³ 2.Working pressure: 8bar Including: pressure vessel certificate, safety valve, blowdown valve, pressure gauge		1	469.00

شركة ميذا للاستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

5. Oxygen booster	WWZ-50/3-200	1. Structure: no oil lubrication 2. Power supply voltage: 380V / 50Hz 3. Rated flow: 50nm ³ / h 4. Rated air inlet pressure: 0.3MPa 5. Rated exhaust pressure: 20MPa 6. Cooling mode: air cooling 7. Lubrication method: seal grease lubrication 8. Motor power: 22kw		1	21500.00
6. filling system	HL-10	1. Working pressure: 20MPa 2. Filling interface: 1X10		1	1250.00
8. filter element		Six thousand hours, four at a time		8	965.00

شركة ميذا للاستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

9. Oil filter	Form a complete set of original. It takes 1 for maintenance		4	136.00
10. Air filter core	Form a complete set of original. It takes 1 for maintenance		4	198.00
11. Oil fine separator	Form a complete set of original. It takes 1 for maintenance. No need for the first time		3	225.00

شركة ميزة للإستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

12. Booster set	Form a complete set of original. Grease, piston ring, guide ring		1	765.00
Total price of equipment: USD69542.00/set FOB Shanghai (Including wooden case package)				

شركة ميزة للإستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Appendix 1 technical documents

equipment process flow diagram, mechanical general assembly drawing, electrical schematic diagram, electrical wiring diagram and operation manual

technical documents, packing list and certificate of conformity (the above information shall be provided with the machine)

Equipment configuration sterilization

Maintenance cycle:

1. The air compressor should be maintained for 500 hours for the first time, and then for 3000 hours. The oil, filter and air filter should be changed,
2. Replace 4 filter elements every 6000 hours,
3. Replace the molecular sieve of oxygen generator in 5-7 years, depending on the purity of oxygen. Replace the molecular sieve

شركة ميزة للإستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

4. Maintain the oxygen supercharger every 3000 hours, change the piston ring, guide ring, add grease, etc

Maintenance cycle:

1. The air compressor shall be maintained for 500 hours for the first time, and then maintained every 3000 hours. The oil, mechanical filter and air filter shall be changed,
- 2 and 4 filter elements should be replaced once every 4000 hours,
3. Replace the molecular sieve of oxygen generator in 5-7 years, depending on the purity of oxygen
4. Maintain the oxygen booster once every 3000 hours, change piston ring, guide ring, add grease, etc

2. Payment method:

- A. 30% of the total contract price shall be paid as a down payment within one week after the

شركة ميزة للإستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

contract comes into force.

B. after the completion of equipment processing and manufacturing, Party A shall pay 70% of the total contract price as the delivery payment after passing the pre delivery inspection and meeting the delivery conditions.

3、 Production cycle and delivery method:

Within 30 days after receiving the advance payment, provide the complete set of equipment under the contract. The equipment shall be transported to the place designated by the user or taken by both parties through negotiation.

4、 Test and assessment

In the opinion of commissioning engineers of both parties, the equipment shall be inspected and accepted when it is in normal operation after commissioning. (debugging cost of foreign equipment shall be calculated separately)

شركة ميزة للاستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Main technical parameters of oxygen system

1) Technical index of product gas:

Oxygen flow: 50nm³ / h

Oxygen purity: 93%

Dew point: ≤ - 40 °C(normal pressure)

Outlet pressure: ≤ 0.4MPa (adjustable)

2) Technical specifications of main split equipment of oxygen system:

1. PSA oxygen generation system:

(1) One energy saving screw air compressor 1 set

Brand:	Shanghaijianpa
Discharge pressure (MPa)	0.8
Exhaust volume (m ³ / min)	16.0

شركة ميزة للاستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Cooling mode	Air cooling
Motor power (kw)	90
Power supply (V / pH / Hz)	Three phase 380 V / 50 Hz
Noise value (DBA)	70
Unit weight (kg)	2000
Overall dimension (L × w × h) (mm)	2050X1350X1550

(2) 1 air buffer tank 1 set

Brand:	Puyang Ruide
Volume:	1.0m ³
working pressure:	0.8MPa
Size:	Φ800X2100mm

شركة ميزا للاستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Weight:	150Kg
Including pressure vessel certificate, safety valve, blowdown valve and pressure gauge	

(3) Primary filter (with drainer and hankson filter element) 1 set

Brand:	Wuxi Yineng (hankson filter element)
model:	XF9-44
Treatment capacity:	18m ³ /min
Degreasing accuracy:	3ppm
Dust removal accuracy:	3μm

(4) 1 freezing dryer 1 set

Brand:	Suzhouqinkui
model:	SL-150AC

شركة ميزا للاستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Treatment capacity:	18m ³ /min
Pressure dew point:	2-10°C
Installed power:	3.5KW
Power Supply:	380V/50Hz
Dimensions:	1300×1100×1400mm
Weight:	190Kg

(6) Main pipeline filter (with drainer and hankson filter element) 1 set

Brand:	Wuxi Yineng (hankson filter element)
model:	XF7-44
Treatment capacity:	18m ³ /min

شركة ميزة للاستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Degreasing accuracy:	1ppm
Dust removal accuracy:	1µm

(7) Ultra precision filter (with drainer and hankson filter element) 1 set

Brand:	Wuxi Yineng (hankson filter element)
model:	XF5-44
Treatment capacity:	18m ³ /min
Degreasing accuracy:	0.1ppm
Dust removal accuracy:	0.1µm

(8) Dust filter (hankson filter element) 1 set

Brand:	Wuxi Yineng (hankson filter element)
--------	--------------------------------------

شركة ميزة للاستيراد والتصدير

Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

model:	XF3-44
Treatment capacity:	18m ³ /min
Dust removal accuracy:	0.1μm

(9) BWfy-50 / 93 energy saving PSA oxygen generator 1 set

Brand:	Nanjing Bangwin
model:	BWfy-50/93
Oxygen flow rate:	50Nm ³ /h
Oxygen purity:	93%
Oxygen dew point:	≤ - 40 °C(atmospheric pressure)
Outlet pressure:	≤ 0.4MPa (adjustable)
Power supply:	2Φ220V/60Hz 0.2KW

شركة ميزة للاستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

(10) One oxygen storage tank 1 set

Brand:	Puyang Ruide
Volume:	1.0m ³
working pressure:	0.80MPa
Size:	Φ800X2100mm
Weight:	150Kg
Including pressure vessel certificate, safety valve, blowdown valve and pressure gauge	

(11) One oxygen booster 1 set

model	WWZ-50/3-200	Compressor speed	550r/min
structural style	Oil free lubrication	Cooling mode	water-cooling

شركة ميزة للاستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

supply voltage	Three phase 380 V / 50 Hz	Lubrication mode	Sealing grease lubrication
Rated flow	50Nm ³ /h	Motor power	15kw
Rated pressure admission	0.3MPa	Overall dimension mm	1250X900X125 0
Rated discharge pressure	20MPa	weight	700kg
It is equipped with 1 × 10 filling ports.			

شركة ميزة للإستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Supply contents of the scheme

➤ Air compressor and purification part of 50Nm ³ / h 93% oxygen making system			
screw compressor	JP-100A	1	Shanghaijianpa
Air buffer tank	1.5m ³ /0.8MPa	2	Puyang Derui
Freeze dryer	SL-125AC	1	Bangwin matching
Micro heat adsorption dryer	SL-125	1	Bangwin matching
FC main line filter	Built in automatic drainer	1	Hankson filter element
FT micro oil filter	Built in automatic drainer	1	
FA ultra high efficiency filter	Built in automatic drainer	1	
FH fine dust filter	Built in automatic drainer	1	
➤ 50Nm ³ / h 93% energy saving PSA oxygen generator			
Special adsorber	DN400	2	made by professional pressure vessel factory
molecular sieve	XP	sufficient	UOP, USA

شركة ميزة للإستيراد والتصدير
Miza Company For Import & Export



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel-01: +447477838391

Tel-02: +218917333191

Hold down device	Hitler introduced technology	2	Patent of German Kapo company
Pneumatic program control valve	C2000	1	Provided by Bangwin
Pilot solenoid valve	4V210-8	1	Yadeke, Taiwan
PLC controller	S7-200	1	Siemens, Germany
DC 24 V power supply	220V-24V	1	Mingwei, Taiwan
Electronic control part	XT	1	Bangwin
Touch industrial computer	MCGS	1	Kunlun Tongtai
Single air source processing unit	2000-01	1	Shenchi pneumatic
Oxygen analyzer	P860-4N	1	Shanghai ChangAi
Sampling pressure reducing valve	2000-02	1	Shenchi pneumatic
Muffler	QYFD-50	1	Produced by Bangwin
Oxygen storage tank	1.0/0.8	1	Puyang Derui
Sterilization filter	MJ-1	1	Bangwin matching
Oxygen flowmeter	LZZ-50	1	Hongqian instrument
Pressure gauge	Y80ZT	2	Fuyang Huake Instrument Factory
Oxygen booster	WWZ-50/3-200	1	Anshanlibang
Filling row	BW	1	Bangwin matching
Base frame	BWFD-50	1	Produced by Bangwin
Other valves and pipes	BWFD-50	1	Produced by Bangwin

شركة ميزة للإستيراد والتصدير

Miza Company For Import & Export