

50 立方制氧机带灌装系统报价书

Quotation of 50 cubic oxygen generator with filling

设备项目：TYF093-50 制氧设备×1套（纯度 93±3%）

Equipment item: TYF093-50 oxygen making equipment × 1 set (purity 93 ± 3%)



需方：

Demander：

设备名称：

Equipment name：

50 立方制氧机带灌装
50 cubic oxygen generator with filling

编制日期：

Date of preparation：

2024-03-22

2024-03-22

一、设备名称、型号规格及数量

Equipment name, model, specification and quantity

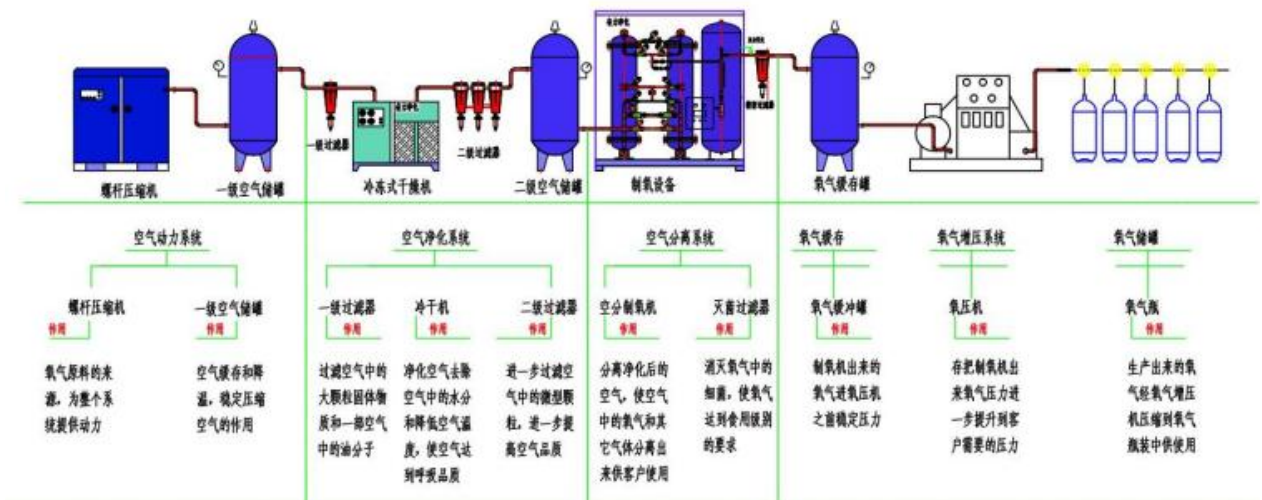
1)、制氧系统/Oxygen generation system:TYFO 93-50

名称/Name	型号/model	单位/Company	数量/number	生产厂家/Manufacturer	技术参数/technical parameter
螺杆空压机 screw compressor	75KW	台 /platf orm	1	汉 钟 HANBELL/开 山 KAISHAN/ 博 莱 特 BOLAITE	产气量/gas production: 13.1m ³ /min 功率/power: 75kw 压力/pressure: 0.7mpa 电源/Power Supply: 380V/50HZ
空气缓冲湿罐 Air buffer wet tank	1.5m ³	台 /platf orm	1	专业容器 /Professio nal container	工作压力/working pressure: 0.8mpa (含证书和配件)/(including certificates and accessories)
冷干机 Cold dryer	TY0150	台 /platf orm	1	台氧 TAIYANG	处理量/Treatment capacity: 16m ³ /min 功率/power: 3.5kw 压力/pressure: 1.0mpa 电源/Power Supply: 380V/50HZ 5组CTA过滤器组/5 groups CTA filters 5组电子排水器/5 sets of electronic drainer
空气缓冲干罐 Air buffer dry tank	1.5m ³	台 /platf orm	1	专业容器 /Professio nal container	工作压力/working pressure: 0.8mpa (含证书和配件)/(including certificates and accessories)

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制氧机组 (包含氧气工艺罐) Oxygen generating unit (including oxygen process tank)	TYF093-50	套 /set	1	台氧 TAIYANG	产气量/gas production: $\geq 50\text{Nm}^3/\text{h}$ 氧气纯度/Oxygen purity: $\geq 93\% \pm 3\%$ 进气压力/Intake pressure: $\geq 0.6\text{mpa}$ 氧气出口压力/Oxygen outlet pressure: 0.3-0.4MPa 电源/Power Supply: 220V/50HZ 功率/power: 0.2kw 含尘粒径/Dust particle size: $\leq 0.01\mu\text{m}$ 氧分子筛使用寿命 5-8 年以上/The service life of oxygen molecular sieve is more than 5-8 years
氧气缓冲工艺罐 Oxygen buffer tank	0.6m ³	台 /platform	1	专业容器 /Professional container	工作压力/working pressure: 0.8mpa (含证书和配件) / (including certificates and accessories)
氧气灌装机 Oxygen filling machine	50/3-150	台 /platform	1	佰联 /BAILIAN	进气压力/Intake pressure: 0.3mpa 排气压力/Discharge pressure: 15.0mpa 功率/power: 18.5kw 电压/Voltage: 380V 50HZ
汇流排 Bus bar	50/150	组 /group	1		充装压力/Filling Pressure: 15.0Mpa 充装口/Filling port: 10 个
集装箱 container	40尺	台 /platform	1	上海 SHANGHAI	12191mm*2438mm*2896mm

PSA变压吸附制氧设备流程图



二、工艺文件/Process documents

1)、公用工程/Public works

- ◆ 用户负责提供设备所需的：水、电、压缩空气和设备安装场所，并必须满足以下要求：
- ◆ The user is responsible for providing water, electricity, compressed air and equipment installation site required by the equipment, and must meet the following requirements:

类别/Category		数值/Numerical value	备注/remarks
1	220V/50HZ	0.2KW×1	制氧机控制用电 Control power consumption of oxygen generator
2	380V/50HZ	3.5KW×1	冷干机用电 Power consumption of cold dryer
		75KW×1	空压机用电 Power consumption of air compressor
		18.5KW×1	灌装机用电 Filling machine electricity
3	总功率 /Total power	97.2KW	

2) 安装现场要求/Installation site requirements:

1、安装现场应清洁、平整、吊车或叉车容易达到并能进行安装，安装厂房的高度和地面承重需符合要求，安装占地面积不小于供方提供的图纸，并留出适当的检修空间。

/The installation site shall be clean and level, and the crane or forklift shall be easy to reach and be able to install. The height of the installation plant and the ground bearing shall meet the requirements. The installation area shall not be less than the drawings provided by the supplier, and appropriate maintenance space shall be reserved.

2、安装现场环境温度为0~40℃，相对湿度35~90%，海拔≤1000米。/The ambient temperature of the installation site is 0 ~ 40 °C, the relative humidity is 35 ~ 90%, and the altitude is ≤ 1000m.

3、安装现场周围环境空气应洁净、无强酸碱空气和腐蚀性气体，因某些化学物质对氧分子筛危害是严重的，易引起氧分子筛中毒。厂房需保持通风良好。/The ambient air around the installation site should be clean and free from strong acid-base air

and corrosive gas, because some chemical substances are seriously harmful to the oxygen molecular sieve, which is easy to cause oxygen molecular sieve poisoning. The workshop should be well ventilated.

4、使用现场电源和电压需符合要求，电压波动不能超过额定电压的±10%。/The field power supply and voltage shall meet the requirements, and the voltage fluctuation shall not exceed ± 10% of the rated voltage.

3) 现场安装/Field installation:

1、需方根据供方提供的安装图册进行安装。/The Demander shall install according to the installation atlas provided by the supplier.

2、需方负责卸设备并将设备的各段放置在预定的位置上。/The demander is responsible for unloading the equipment and placing each section of the equipment in the predetermined position.

3、需方提供劳务连接组装设备，作好启动准备。/The Demander shall provide labor service to connect and assemble the equipment and prepare for startup.

4、需方联络各种必要的设施（水、电、气）提供劳务和材料。/The Demander shall contact various necessary facilities (water, electricity and gas) to provide labor and materials.

三、设备技术指标要求/Equipment technical index requirements

50Nm ³ /h 制氧系统/Oxygen generation system		
名称/Name	参数/Parameters	备注/remarks
氧气流量/Oxygen flow	单套/Single set ≥50Nm ³ /h	
氧气纯度/Oxygen purity	≥93±3%	
氧气压力/Oxygen pressure	0.4MPa	可调/Adjustable
氧气露点/Oxygen dew point	-40℃(常压)	常压露点/Atmospheric dew point
氧气温度/Atmospheric dew point	≤45℃	
工作压力/working pressure	≥0.6MPa	

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氧气含油量/Oxygen oil content	≤ 0.003ppm	
氧气含尘粒径/Oxygen dust particle size	≤ 0.1um	
系统压差/System differential pressure	≤ 0.1MPa	
原料空气消耗量/Raw air consumption	单套制氧设备/Single oxygen plant ≥ 10Nm ³ /min	平均耗气量/Average gas consumption
原料空气露点/Dew point of raw air	≤ -10℃	常压露点/Atmospheric dew point
控制方式/control mode	PLC 自动控制	德国西门子/Siemens, Germany
负荷范围/Load range	100~100%	
最大压力损失/Maximum pressure loss	≤ 0.17Mpa	
噪声/Noise	≤ 85dB(A)	

四、TYF093-50 制氧系统配置一览表/Configuration list of oxygen generation system (单套/Single set) :

构成 /const	名称/Name	型号 /model	数量 numb	供应商 /supplier	备注/remarks
Oxygen generator TYF093 -50	吸附塔 Adsorption tower	XF-30	2台 /platform	专业容器 Professional container	设计压力 1.1MPa/Design pressure 1.1MPa
	吸附塔内构件 Absorber internals	ZJ-30	2套 /set		专业气流扩散、均匀分布/Professional airflow diffusion and uniform distribution
	沸石分子筛 Zeolite molecular sieve	O ² XP	足量 /sufficient	UOP	正常使用寿命 5-8 年以上/The normal service life is more than 5-8 years
	电磁阀 Solenoid valve	5221-08	1套 /set	亚德客 AirTAC	切换次数 150 万次以上/More than 1.5 million switching times
	气源单联件 Single connection of air source	AFC-2000	1只 /only	亚德客 AirTAC	台湾亚德客, 过滤调压/Taiwan Yadeke, filter regulator
	压紧装置 Hold down device	TH-30	2套 /set		分子筛压紧装置/Molecular sieve pressing device

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	气动程控阀 Pneumatic program control	DN40	4 只 /only		切换次数 150 万次以上/More than 1.5 million switching times
	气动程控阀 Pneumatic program control	DN25	4 只 /only		切换次数 150 万次以上/More than 1.5 million switching times
	电 控 柜 Electric control cabinet	DK-30	1 套 /set		自动控制功能、Automatic control function
	PLC	S7-200 FX 系列	1 套 /set	西门子 Siemens	可编程控制器、Programmable controller
	氧分析仪 Oxygen analyzer	P950-40	1 台 /platform	昶艾 CHANGAI	德国进口氧化锆探头 /Zirconia probe imported from Germany
	氧气流量计 Oxygen flow meter	LZB-30	1 台 /platform	双环 Double ring	著名品牌/Famous brand
	调 压 阀 Pressure regulating	DN25	1 只	亚德客型 AirTAC	精确压力稳定/Accurate pressure stability
	调 节 阀 Regulating valve	DN25	1 套 /set	亚德客型 AirTAC	关启易调节/Easy to adjust on and off
	消音器系统 Muffler system	XS-30	1 套 /set		宏博专业制造，采用发散性万向螺旋器和大面积多重折回式减压器（附吸音材料）设计，控制装置产生的噪音 $\leq 80\text{dB(A)}$ 。 HONGBO Gas Co., Ltd. is a professional manufacturer. It adopts the design of divergent universal screw and large area multiple folding pressure reducer (with sound-absorbing material). The noise generated by the control device is less than or equal to 80dB (A).
	框架式底盘 Frame chassis	/	1 套 /set		宏博企业空分，撬块一体化/HONGBO gas air separation and skid integration
Oxygen buffer	氧气缓冲工艺罐 Oxygen buffer tank	标配 The standard configuration	1 台 /platform	专业容器	工作压力 0.8MPa/Working pressure 0.8MPa
氧气工艺罐	粉尘过滤器 Dust filter	S-003	1 台 /platform		汉克森滤芯，精度 $\leq 0.01\ \mu\text{m}$ /Hankson filter element, accuracy $\leq 0.01\ \mu\text{m}$

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五、设备报价、Equipment quotation 单位/Company: 元

序号/NO	名称/Name	型号/model	数量 /number	TOTAL
1	螺杆空压机 screw compressor	75KW	1 台	
2	空气缓冲湿罐 Air buffer wet tank	1.5m ³	1 台	
3	冷干机 (含过滤器排水器) Cold dryer (including filter drainer)	TY0150	1 套	
4	空气缓冲干罐 Air buffer dry tank	1.5m ³	1 台	
5	制氧机组 (包含氧气工艺罐) Oxygen production unit(including oxygen process tank)	TYF093-50	1 套	
6	氧气缓冲工艺罐 Oxygen buffer tank	0.6m ³	1 台	
7	氧气灌装机 Oxygen filling machine	50/3-150	1台	
8	汇流排 Bus bar	50/150	1组	
9	集装箱 container	40尺	1台	