

CFS Series Medical Oxygen(PSA) Filling System ◀



CANGAS CFS cylinder filling system is composed of most famous and best quality equipments in the world to maximum your productivity in consistent running and exempt you from future worries. Our professional engineers and durable, easy to use, automatic product make sure you have low cost on maintenance and help you focus on your business.

CANGAS CFS cylinder filling system's product O₂ meets U.S.P medical standard at 93% or higher than the standard. The system applies diaphragm booster which is designed for oxygen of large flow for user's daily production. The gas does not come into contact with the transmission components and the gas will not be contaminated. The quality of the products produced by the users is guaranteed. There are a few main advantages in applying diaphragm booster into medical oxygen filling:

- 1.The working chamber of the cylinder is composed of the diaphragm and the curved surface of the cylinder head. It is a static seal and there is no leakage of gas. It can easily reach high pressure.
- 2.The transmission part is compressed hydraulic oil, and the equipment has low vibration and low noise.
- 3.There are few consumables, mainly diaphragms. Subsequent maintenance and operation costs are low.

China's national medical standards stipulate that piston compressors should not be used for oxygen pressurization and filling processes. Diaphragm compressors are recommended. There are similar regulations for medical standards in different regions of the world.



CAN GAS SYSTEMS COMPANY LIMITED

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The ROI of CANGAS CFS cylinder filling system:

1. Assume a 40L medical oxygen cylinder(contains 6m³ oxygen at 15MPa) is rented by hospitals with 3.7 USD on average and local electric rate is 0.1 USD/ kWh.
2. With CANGAS patented energy saving technology and high efficiency equipment, One cubic meter oxygen can be produced consuming 2.2 - 2.4kWh power(All CANGAS standard CFS models).
3. When you sell one cylinder of oxygen to hospitals, the ROI is simply: $3.7 - 6 \times 2.3 \times 0.1 = 2.32$ USD
4. At Daily basis if you sell one hundred cylinders of oxygen the ROI is: $2.32 \times 100 - X = 232$ USD - X. The X indicates the transportation cost or cost of gasoline for your truck.
5. Your annual ROI will include the basic maintenance for CFS system. Let's use CFS-25 for example, the annual maintenance kit is about 8600 USD.
6. The annual ROI would be: $2.32 \times 100 \times 365 - 8600 - X - Y = 76080$ USD - X - Y. Here the X indicates your cost for transportation affairs and the Y indicates your cost for the factory rent, the payment to your employees and so on.
7. If your local market has a high demand for oxygen, the higher one time investment you put on CFS the more you can earn.



Model	O ₂ flow (Nm ³ /h)	O ₂ outlet pressure (BarG)	O ₂ outlet pressure BarG(option)	Filling pressure (BarG)	O ₂ purity (%)	Capacity Cylinders (day)
CFS-3	3	4	8	100~300 Customizable	93~99% Customizable	12
CFS-5	5	4	8			20
CFS-10	10	4	8			40
CFS-15	15	4	8			60
CFS-20	20	4	8			80
CFS-25	25	4	8			100
CFS-50	50	4	8			200
CFS-80	80	4	8			320

O₂ cylinder volume is 40L. Working 24 hours per day. For power specs of 220/380V, 50Hz; others could be customized.

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