



**ASRE SANAT ATBEEN**  
Medical Devices

# Oxydocile - PSA

- Established in 2010 in Tehran
- The largest producer of medical gases in Iran  
(especially in the field of hospital oxygen generators)
- Production and supply of more than 150 hospital oxygen generators in critical conditions of Corona
- Installation of the device in 32 provinces of Iran and a leader in the export of Asian and European countries, Belarus, Tajikistan, Iraq, Armenia and....



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# Oxydocile - PSA

## Attributes:

- PSA (Pressure Swing Adsorption)
- Modular and efficient
- Presentation in the form of multiple towers (Bank Type)
- Reliable and independent operation without the need for an operator
- Ability to increase oxygen production capacity only by increasing the number of zeolite tanks
- The ability to work with the central system and control different oxygen concentration tanks
- Has 6 filters to control all outgoing particles
- Has independent software
- Simultaneous operation of charging and extracting oxygen to increase efficiency
- Low energy consumption
- 10-inch touch screen
- Has an exclusive system of compressed air injection to reduce the damage and crushing of zeolite
- Providing purity of 93±3%
- Has a purity reduction warning alarm
- Minimum space required for installation
- The ability to provide and install in containers outside the construction site
- Instant display of the entire operation on the screen
- Has a muffler exhaust
- The oxygen generator package includes the following: compressor, dryer, oxygen generator, filter set, air tank and oxygen tank.
- The ability to provide containerized or non-containerized

Comparison of two types of oxygen generators

Bank Type ASA	Twin tower
Efficiency 1 to 13 , 1 liter of oxygen per 13 liter of air	Efficiency 1 to 20 , 1 liter of oxygen per 20 liter of air
Low function for compressor Low damage	High function for compressor High damage
Low consumption of zeolite	High consumption of zeolite
Cheap services	Expensive services
Ability to increase capacity	No ability to increase capacity
Preventing system from crushing zeolite	No Preventing system from crushing zeolite
Aluminum tower for zeolite	Iron tower for zeolite
Requires small space	Requires large space
Installed in unconventional spaces due to its modularity	Installation continuously
Medical and industrial application	Industrial application

Model	Compressor/kw	Air dryer/ m3/h	Number of filters	Volume of zeolite/kg	Zeolite tower numbers	Air tank [L]	Oxygen tank [L]
Oxydocile-PSA 100L	22	623	6	140	6	1000	500
Oxydocile-PSA 300L	45	930	6	425	18	1500	1000
Oxydocile-PSA 600L	75	1200	6	850	30	2500	2000
Oxydocile-PSA 1000L	90	1388	6	1400	54	3500	2500

**Point:** We are able to manufacture the oxygen generator-PSA for medical centers according to their requirement.