

MOBILE OXYGEN FILLING STATION



Mobile oxygen filling station is an oxygen generating & filling system built in transportable container.

The oxygen is produced from compressed air by pressure swing adsorption technology. The compressed air system, the separation system as well as the high pressure cylinder filling system is integrated in the container.



Features:

- Transportable (pass for fork-lift and bolt-on ISO corners)
- Turnkey, plug&play solution
- Designed for outdoors - the container is an excellent protection against rain and sun
- Automatic start and stop operation
- Available oxygen outlet at pressure 4barG; Oxygen cylinders are filled at 150barG (200barG)
- Oxygen purity 95% +/-1%

Optionals:

- Sequential start/stop system – one button operation
- Surveillance system – monitors oxygen concentration of the ambient air in the container
- CSC approval – certification for sea transport
- SIBIRIA – nordic version for temperatures down to -50°C
- Automatic fire detection system
- Audio/visual alarm

The unit designed for high ambient temperatures is furnished with container insulation and air conditioning; the surface is treated with special coating.

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The Process

Pre-treated compressed air enters the active column of the oxygen generator and follows up through the Zeolite (molecular sieve). Nitrogen and other gases are being adsorbed while the oxygen passes through. When the pressure is released the Zeolite completely regenerates. Oxygen is boosted to high pressure with oil-free compressor and cylinders are filled on the filling ramp.



Technical Data

Model	MOFS4	MOFS8	MOFS16	MOFS24
Filling capacity	3.2 m ³ /h	6.4 m ³ /h	16.0 m ³ /h	24.0 m ³ /h
Cylinders filled in 24h	12.8	25.6	64	96
End pressure	150bar	150bar	170/200bar	170/200bar
Power	7kW	12kW	25kW	45kW
Container size	9ft	20ft	20ft	20ft
Dimensions	2.9x2.2x2.3m	6.1x2.5x2.6m	6.1x2.5x2.6m	6.1x2.5x2.6m
Total Weight	2100kg	3700kg	4600kg	6500kg

Note: Cylinder size = 6m³

General Specification

Purity:	95% +/-1%	
Ambient temperature range:	-20°C up to 45°C (55°C)	
Oxygen outlet pressure:	4 to 5 barG	
Oxygen pressure dew point:	-50°C	
Air inlet pressure:	7.5barG	
Inlet air quality:	Dew point:	+3°C
Purity:	ISO:	8573.1:2010 class 1.4.1
	Filtration grade:	0.01 micron
Power supply:	400-440 V / 50-60 Hz	

Mobile oxygen filling station is a compact solution design for outdoors able to fill cylinders of any size. If you have specific requirements, do not hesitate to contact us and we will design you a solution to meet your requirements.



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References

Some references of our work



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