OXYGEN *ON-SITE* GENERATION SYSTEMS

INDUSTRIAL

OXIGEN for FLAMING

The flamed finish is achieved by applying a flame obtained by mixing propane or natural gas with oxygen to the stone.

Flaming gives the stone a different colour and relief to the original product, making it a non-slip floor. In the case of granite, the high temperatures also open up the natural crystals of the stone, making the final finish resistant, abrasive and natural looking.

Since it is very difficult to reduce fuel costs, companies in the sector that carry out this type of finishing now have the opportunity to save on Oxygen supply by opting for generators instead of the traditional rental of cylinders or cryogenic tanks.

SYSADVANCE OXYGEN GENERATORS

SYSADVANCE Oxygen generators enable high savings in the supply of Oxygen, as they produce Oxygen locally from compressed air, continuously and autonomously, according to the customer's specifications.

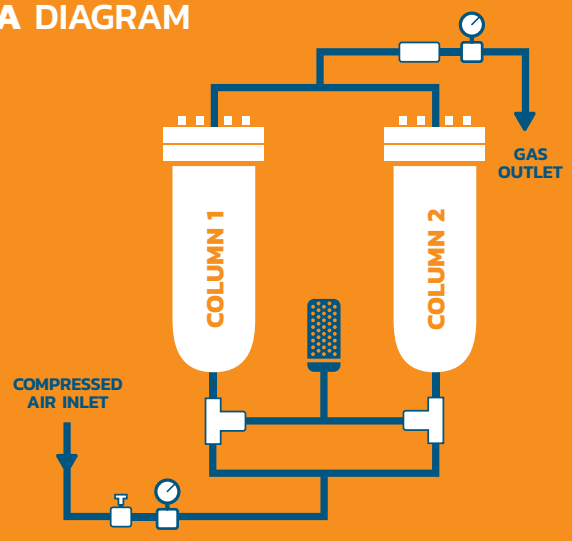
The oxygen supply can be integrated into both hand torches and flaming robots.

PSA TECHNOLOGY

Oxygen generators are made up of pairs of columns filled with zeolite. This adsorbent material is able to retain the components present in the air (Nitrogen, Carbon Dioxide and Water) with the exception of Oxygen.

This process works under pressure and in a cyclical manner, which allows the supply of oxygen to be maintained at a constant flow rate and purity.

PSA DIAGRAM





OXIGEN FOR FLAMING

MF_OXYGEN_FLAMEJAR_V04_OUT2026_EN



PERFORMANCE

PSA MODEL	85% Flow O2 (Sm³/h)	90% Flow O2 (Sm³/h)	95% Flow O2 (Sm³/h)
OXYGEN **10C**	1,26	1,16	0,94
OXYGEN **25**	2,93	2,67	1,67
OXYGEN **35**	4,4	4,0	2,5
OXYGEN **50**	6,5	6,0	3,8
OXYGEN **70**	9,2	8,5	5,3
OXYGEN **80**	11,2	10,4	6,5
OXYGEN **90**	13,4	12,4	7,8
OXYGEN **110**	17,5	16,2	10,1
OXYGEN **150**	25,6	23,7	14,8
OXYGEN **200**	36,9	34,1	21,3
OXYGEN **300**	51,4	47,6	29,7
OXYGEN **400**	61,2	56,7	35,3
OXYGEN **500**	78,3	72,6	45,2
OXYGEN **800**	109,6	101,6	67,2

SYSADVANCE Oxygen production units are extremely robust and require simple maintenance (replacement of filters every 4000 hours), with the operating cost corresponding to the electricity consumption with air compression, obtaining final yields of Oxygen produced of 1 KWh per m^3.

SYSADVANCE offers a wide range of flow rates and purities to meet the specific needs of each customer. It can supply only the generator or the complete turnkey system.



Other capacities on request.
Models and specifications are subject to change without notice.

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