

**MICRO-CONTROLLED OXYGEN GENERATOR  
WITH EXTERNAL AIR COMPRESSOR  
HCM 2003 (PSA) SC 1-2-3-4-6-12-18-24  
FOR MEDICAL AND INDUSTRIAL APPLICATIONS**



Ceimsa manufactures PSA oxygen generating systems for medical and industrial applications, to satisfy a wide range of patients' respiratory tract needs (respiratory therapy) and for oxygen needs in health centres (oxygen supply stations). Our industrial oxygen generating systems (with litre output per minute to cubic metres per day) are used for commercial applications ranging from ozone generation and bioremediation to thermal oxidation, aquaculture and welding, etc.

Our PSA oxygen generating system makes it possible to separate oxygen from other gases after passing it through a molecular compound denominated Zeolite which, under pressure, retains the nitrogen molecules allowing the oxygen to pass through an outlet nozzle for consumption at a determined pressure. In this way the apparatus can be used for any application which requires oxygen by means of a flow regulator.

Our high-tech. and high performance oxygen generators offer numerous advantages which combine purity of oxygen with safety, comfort, silent operation and low electric consumption. Its aesthetic appearance and excellent characteristics are designed to adapt to the needs of the user.

Ceimsa generators provide easy operation and include vital visual and sound alarms (lack of power, high and low pressure, low concentration of oxygen, etc.) including a verification of the oxygen concentration.

These models are designed to produce oxygen at an outlet pressure of between 4 bars and 5.5 bars, to 94% ± 1.

It is possible to use either individually or connected to other generators, in the same range, so as to increase the capacity, depending on the needs of the user. The generators is very versatile in terms of its features, covering different needs, such as: Supply of hospital networks, supply of industrial networks filling cylinders under high pressure using our Compressor OXICOMP.

**COMMON CHARACTERISTICS**

Oxygen concentration	94% ± 1
Oxygen analyser	Included
Maximum Outlet Pressure	5,5 bar
Supply voltage	230 V 50 Hz single phase
Stabilisation time	10 minutes.
Temperature limits	10÷43°C (50÷110°F).
Oxygen outlet temperature	Ambient temp. +4°
Maintenance	Simple



MODEL	AIR USAGE		OXYGEN OUTPUT		POWER	POWER USAGE	COST
	NM <sup>3</sup> /MIN	SCFH	NM <sup>3</sup> /HR	LPM	HP (1)	KW-HR (2)	
HCM2003(PSA) 1SC	0,5	34	1,2	20	5,5	4	1,7
HCM2003(PSA) 2SC	0,72	57	2	33	7.5	5,5	1,7
HCM2003(PSA) 4SC	0,92	113	4	66	10	7.5	1,7
HCM2003(PSA) 6SC	1,68	169	6	100	15	11	1,7
HCM2003(PSA) 12SC	2,80	339	12	200	30	22	1,7
HCM2003(PSA) 18SC	4,50	509	18	300	40	30	1,7
HCM2003(PSA) 24SC	5,50	679	24	400	50	37	1,7

**OTHER OUTLET FLOW, TO CONSULT**

Rv. 4 del 09/01/10 CEIMSA reserves the right to change dimensions or specifications without previous notice.

They can be carried out another type of combinations, adapting to the client necessities.

### Installation of Oxygen



### Installation of Oxygen and Air



### Installation of oxygen Air, and Vacuum



We can make other combinations

Example to title orientate of an installation.

They can be carried out another type of combinations, adapting to the client necessities.

As it can be observed in the example the installation it can feed the net and to fill bottles of oxygen at the same time, for it is important that the deposit of oxygen has an electronic control for allows to select what is programmed as preferable, in this case the exit to the net and the oxygen surplus to the compressor for the filled of bottles. The bottles could serve as reservation for high demands of consumption of oxygen.

This equipment fulfils EC standards. It is also very economical as no specific maintenance is required; only periodical checks every 5.000 hours of operation.