



wassertec
Ozone Systems



OX-5 OXYGEN GENERATOR

High Quality Oxygen Concentrator

Designed and made in South Africa

In 2005 we decided to design an oxygen generator to compliment our ozone technology. This is because you need oxygen to make ozone. Two years of design and development led to the creation of our OX5 oxygen generator. It produces up to 5 litres per minute of oxygen at >93% purity from a compressed air supply. It's simple, reliable and above all, serviceable.

Made entirely from CNC machined aluminium, the OX5 uses a specially designed ceramic rotary valve to send air alternately to a pair of cylinders. These cylinders are filled with a 'Molecular Sieve' which separates the oxygen from other gases in the air. The quality of the molecular sieve is critical to the performance and reliability of the system. We only use the highest quality 'Nitroxy 5' sieve, imported from France.

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Design and Features

Innovative Design

The OX-5 works on the principle of pressure swing absorption to generate oxygen from compressed air. Air is pumped through columns of a molecular sieve which alternately produce Oxygen, or purge Nitrogen & moisture. Central to the design is the rotary distribution valve which reduces complexity and improves reliability.

Solid Construction

The unit is constructed entirely from CNC machined 6063 Aluminium. There are no plastic components in the body of the unit and nothing fragile. Innovative use of angled drilling techniques allows the tube end caps to be machined from a single billet.

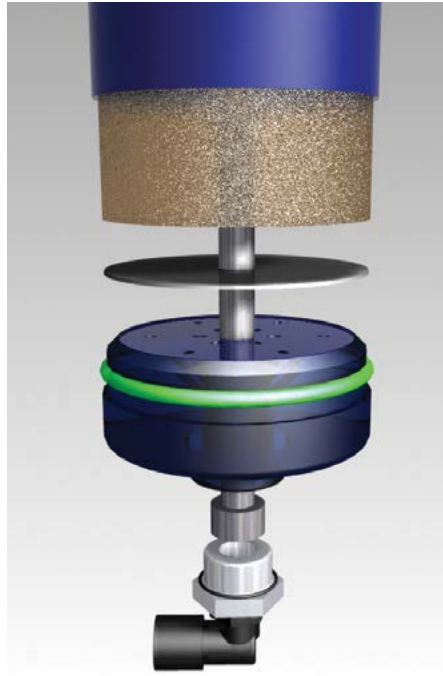
NITROXY[®]
BY **ARKEMA**
INNOVATIVE CHEMISTRY

Oxygen Concentrator Components



Rotary Distribution Valve

A simple yet sophisticated rotary valve distributes compressed air evenly between the sieve columns. The valve removes the need for complicated electronics and solenoid valve assemblies.



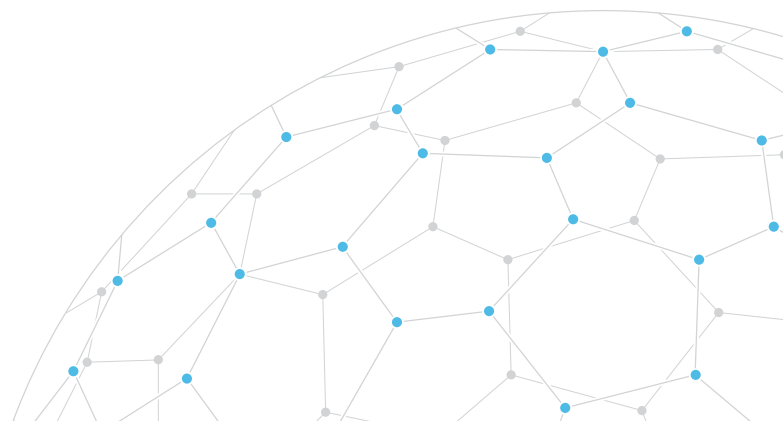
High Quality Molecular Sieve

The sieve columns contain only the highest quality molecular sieve from Arkema. The sieve columns are designed for quick and easy replacement of the sieve in the event of water damage.



Easy Connections

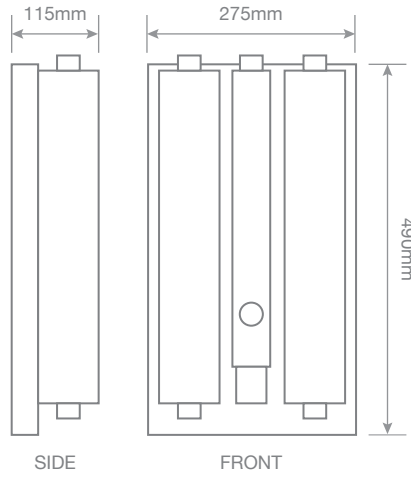
The central column houses the oxygen receiver as well as the rotary distribution valve. Quick connect push/pull couplings allow sieve columns to be exchanged in minutes.





Specifications

OX-5

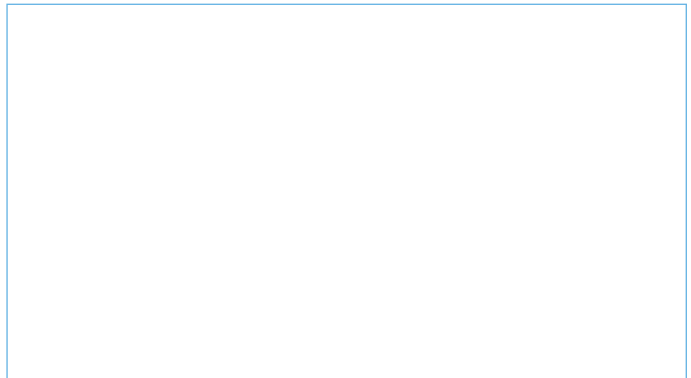


OZYGEN GENERATOR	OX-5
SIZE AND WEIGHT	Height: 490mm (19,29") Width: 275mm (10.82") Depth: 115mm (4.52") Weight: 6.5kg (14,33 lbs)
OXYGEN OUTPUT	95% @ 3 L/min (Litres per minute), 93% @ 5 L/min (+/- 2%).
OXYGEN PRESSURE	60kPa.
OXYGEN DEW-POINT	-60°C.
POWER	230V - 50Hz - 14W.
ENCLOSURE	6063 Anodised Aluminum, CNC machined.
DISTRIBUTION VALVE	Sintered alumina ceramic. CNC machined and mirror polished
MOLECULAR SIEVE	Arkema Nitroxy 5.
COMPRESSED AIR REQUIREMENT IF SUPPLIED FROM AN AIR LINE	85 litres/minute @ 2 Bar pressure Air MUST be free of oil and liquid water. Max 48°C.
OIL-LESS COMPRESSOR REQUIREMENT	Twin cylinder, oil-less rocking piston type, 85 litres/minute @ 2 Bar A cooling coil must be fitted.
TUBE CONNECTIONS	Air inlet - 10mm od. quick connect Oxygen outlet - 6mm pd quick conn..
MOUNTING OPTIONS	Wall mounted.
ENVIRONMENTAL REQUIREMENTS	Indoor use only Minimum ambient temperature 0°C Max ambient temperature 40°C.
OPTIONAL EXTRAS	Oxygen flowmeter 0-5 L/min (Litres per minute), Oil-less compressor and cooling coil.



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