



O₂xydizer

TECHNICAL SPECIFICATIONS

Model	O ₂ xydizer
Operating pressure min/max (bar)	2,0 / 8,3
Operating temperature min/max (°C)	2 / 48
Electrical connection (V/Hz)	230 / 50 ⁽¹⁾
Max. power consumption (VA)	12
Hydraulic connection inlet/outlet	1" BSP Male

⁽¹⁾ Supplied with 24V transformer

PERFORMANCES⁽²⁾

Model	O ₂ xydizer	
Filter medium (Cuft - Ltr)	1 - 28	2 - 56
Recommended max. service flow (m ³ /hr) ⁽³⁾	1,1	1,6
Nominal backwash flow = flow to drain (Ltr/min)	23	30
Rinse water usage per regeneration (Ltr)	352	444

⁽²⁾ Indicative numbers, performances depending on operating conditions and water quality

⁽³⁾ Continuous service flow rates; higher (up to x2) short-period peak flow rates are possible

DIMENSIONS & WEIGHTS

Model	O ₂ xydizer	
Filter medium (Cuft - Ltr)	1 - 28	2 - 56
Width (mm)	268	317
Height (mm)	1185 ±10	1503 ±10
Depth (mm)	290	317
Depth, including bypass (mm)	371	376
Height inlet/outlet (mm)	1047	1356
Weight (kg)	30,6	55,1

APPLICATION LIMITATIONS

Model	O ₂ xydizer
pH for Iron removal	6,8 - 9,0
pH for Manganese removal	8,0 - 9,0
pH for Iron & Manganese removal	8,0 - 8,5
Maximum contaminant level Iron (Fe ²⁺)	15 mg/Ltr
Maximum contaminant level Manganese (Mn ²⁺)	2 mg/Ltr
Maximum contaminant level Hydrogen Sulfide (H ₂ S)	5 mg/Ltr
Organic matter	max. 4,0 mg/L; higher level may hinder the correct operation of the system
Chlorine	max. 1,0 mg/Ltr
Iron bacteria	if iron bacteria are present, frequent service may be necessary and the life of the system may be limited; by properly controlling the iron bacteria with chlorine or another approved method of bacterial reduction, the system will function properly

erie water treatment
a division of **Aquion, Inc.**

Lammerdries-Oost 30c
B-2250 Olen - Belgium
T +32 (0)14 28 51 71

infobelgium@eriewatertreatment.com
www.eriewatertreatment.com



O₂xydizer

AERATION & OXYDATION:
A PROVEN, EFFICIENT, ECONOMICAL
AND ECOLOGICAL PROCESS
TO TREAT WATER!

Fe
Mn
H₂S





Oxidation is a simple, yet efficient and ecological way to remove iron and manganese from water.

Birm®, the filter media used in all O₂ydizer filter systems, has a **double function**:

1. It acts as a catalyst between the dissolved oxygen and the dissolved iron/manganese compounds present in the water; it greatly enhances the oxidation reaction that converts dissolved iron/manganese into insoluble particles.
2. Thanks to its extremely high active surface area it is very efficient in capturing these insoluble particles and filtering them out from the water.

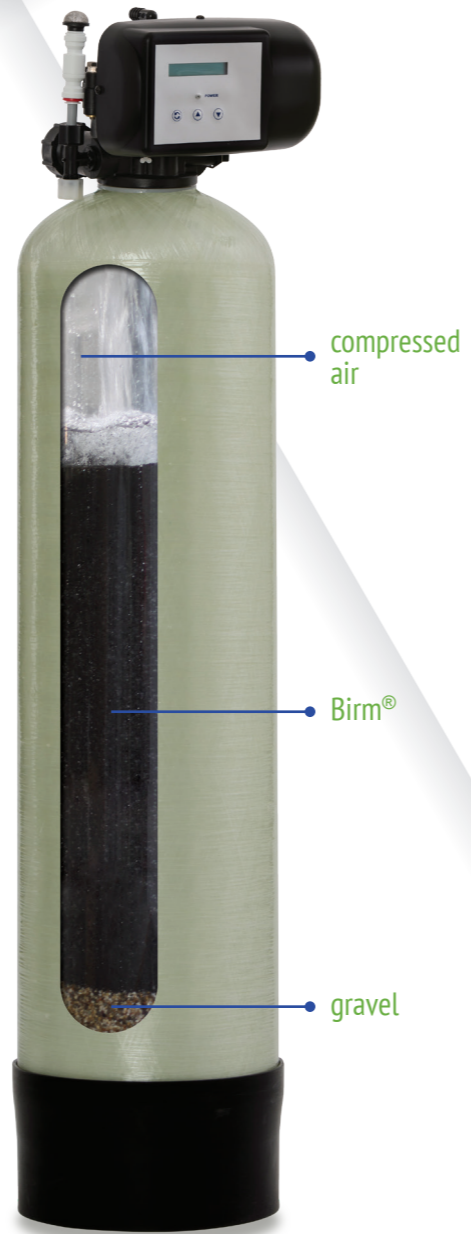
At pre-determined intervals the system will backwash and remove all contaminants from the filter media.

The O₂ydizer: superior performance for the best results!

On top of the proven oxidation process, the revolutionary feature of the O₂ydizer is its '**compressed aeration chamber**' integrated in the filter system itself.

1. During each regeneration, air is being sucked up into the pressure tank by the control valve, which forms an air chamber in the top section of the pressure tank.
2. In service, the untreated water that enters the pressure tank first comes into contact with the air in this 'compressed aeration chamber', where it gets super-oxygenated; this aeration highly accelerates the oxidation process of dissolved iron/manganese, but it also takes care of hydrogen sulfide by oxidizing it into insoluble sulphur particles.

The O₂ydizer completely eliminates the need for 'external air injection devices', greatly simplifying installation and maintenance!



Iron, manganese and hydrogen sulfide: common problems in well water!

Home owners with private water wells very often face high levels of iron and/or manganese in the water. In well water, the iron/manganese usually appears in the invisible dissolved state, so when the water is first drawn, it appears clear! But as soon as the water is exposed to air, the dissolved iron/manganese is 'oxidized' and forms insoluble particles.

Signs of iron and/or manganese in your water are:

- > Your water has a **reddish/brownish color**;
- > Your water has a **bad taste**;
- > Reddish-brown staining (iron) or brownish-black staining (manganese) on laundry, porcelain, dishes,...



Another problem in well water is hydrogen sulfide - a gas that occurs naturally in groundwater and is produced by the decomposition of organic material and by sulfur-reducing bacteria.

Signs of hydrogen sulfide in your water are:

- > Your water has an awful "**rotten egg**" smell and taste;
- > **Discoloration** on silverware and copper and brass utensils;
- > Yellow or black **stains on kitchen and bathroom fixtures**;
- > Coffee, tea, and other beverages made with water contaminated with hydrogen sulfide, may be discolored and the appearance and taste of cooked foods can be affected.



features & benefits

- > 1" Control valve for high flow rates/low pressure drop;
- > Advanced microprocessor controlled, with NOVRAM® memory, power backup and backlit display;
- > EAZY software for unrivalled programming simplicity and flexibility;
- > Premium quality fiberglass pressure tank, fully corrosion resistant;
- > Premium quality filtration media;
- > Single tank system, no external aerators, air injectors, compressors,...
- > No need for chemicals for regeneration;
- > No need for systematic maintenance of system;
- > Easy and convenient to install;
- > Safe for septic tanks/beds.

