

THE FUTURE OF **REGENERABLE** CARBON

WATCHER
WATCH WATER
a Water Company

FILTERSORB
FILTRATION
ADSORPTION

INSTANT PRODUCTS

OXY TREATMENT
SYSTEMS

CARBON~~OXY~~^R

Watch Water® GmbH, the world's most innovative **Water Treatment company**, proudly introduces **CarbonOxy R®** - the groundbreaking **Regenerant** designed to bring Activated Carbon and any Filter media back to life, Again and Again.

This revolutionary technology saves valuable resources, reduces costs, and enables true environmental sustainability by allowing all types of **Activated Carbon** and specialty **Filter media** to be regenerated without loss of performance.

CarbonOxy R® powers the future of **Water and Air purification** Offering **All industries**, **Municipalities**, and all homeowners the ability to **Regenerate** instead of replace the precious **Activated Carbon**.

WITH **CARBON~~OXY~~^R**
REGENERATION IS A
NEW STANDARD

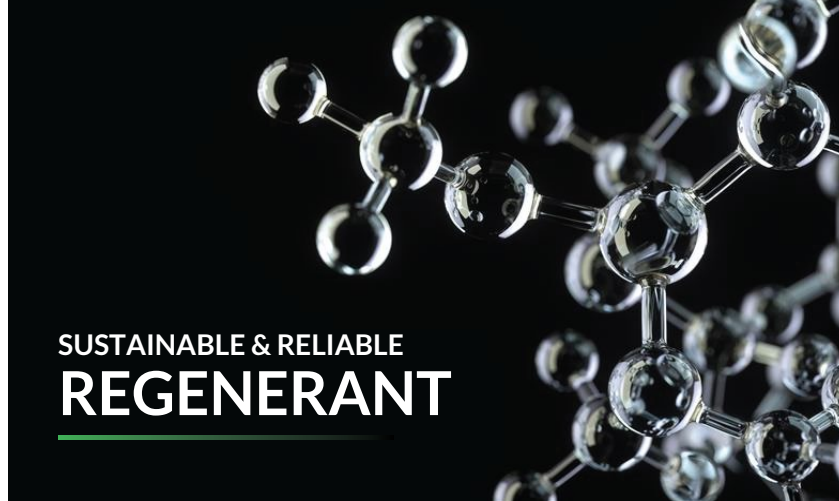
NO LONGER AN OPTION
IT IS THE NEW GLOBAL STANDARD

THE FUTURE OF THE
WORLD'S FIRST
REGENERANT
FOR ALL TYPES OF ACTIVATED
CARBON AND FILTER MEDIAS



PREMIUM QUALITY
MADE IN GERMANY

CARBON~~OXY~~^R



ACTIVATED CARBON®

THE POWER OF REGENERATION

Activated Carbon® is the world's first series of Activated Carbon designed exclusively to be Regenerated with CarbonOxy®.

ACTIVATED CARBON® includes

- Coconut-Based Activated Carbon
- Coal-Based Activated Carbon
- Coconut Pellet Activated Carbon
- Coal-Based Pellet Activated Carbon
- Impregnated Activated Carbon
- Activated Carbon Beads
- Municipal and Industrial Wastewater Treatment Activated Carbons
- Commercial Activated Carbon Filters
- Residential Activated Carbon Filters
- Sulfur Removal Activated Carbons
- Color Removal Activated Carbons
- Food and Pharmaceutical Activated Carbons
- Medicinal Activated Carbons
- Biogas Application Activated Carbons
- Aquarium Activated Carbons
- Galvanizing Activated Carbons
- Decolorization of Sugar Activated Carbons

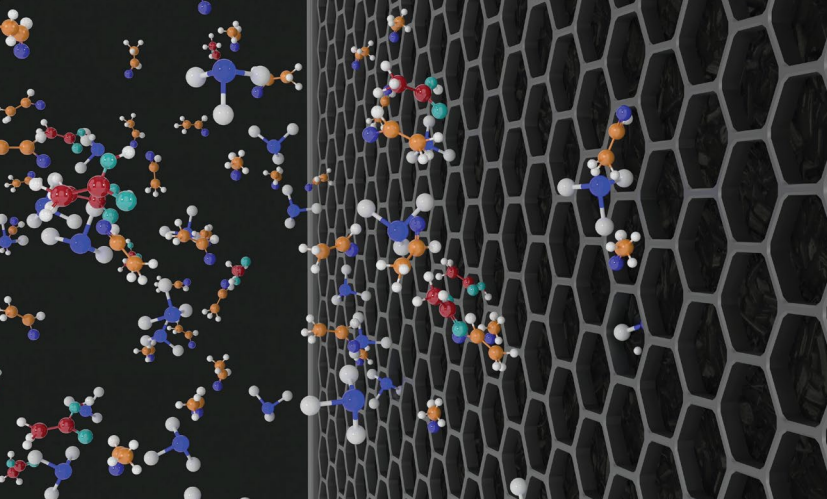
ALL OF THESE CAN NOW BE FULLY REGENERATED AND REUSED USING

CARBONoxy®

INSTEAD OF REPLACING ACTIVATED CARBON AGAIN AND AGAIN

ACTIVATED CARBON® + CARBONoxy®

Make it possible to regenerate and reuse - saving up to 90% of operational costs and,
Eliminating Massive Waste Generation.



CARBONoxy R

THE SCIENCE OF REGENERATION

Advanced Oxidation with **CARBONoxy R**

The power of **CarbonOxy R** can be used to regenerate spent Activated Carbon(AC) by oxidizing the adsorbed pollutants and thus restoring its adsorption capacity by 100%. This method is developed by **Watch Water** and called Very Strong Advance Oxidative Process VS (AOP). **CarbonOxy R** is a very strong **Oxidizing Agent** that can effectively degrade organic and inorganic pollutants adsorbed on (AC) Activated Carbon surface, leading to the **Regeneration of the Materials**.

HOW IT WORKS

Adsorption

Spent Activated Carbon has been saturated with pollutants (Any) during its use.

Oxidation

CarbonOxy R, when applied to the spent Activated Carbon acts as a **Strong Oxidizing Agent**.

Degradation

CarbonOxy R oxidizes the Adsorbed pollutants, breaking them down into smaller, less harmful molecules.
Example -> $\text{CO}_2 + \text{H}_2\text{O}$

Regeneration

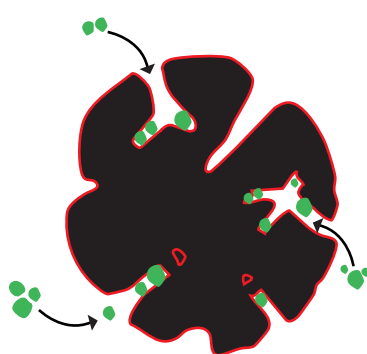
By Oxidizing and removing the pollutants, the **Activated Carbon** surface is cleaned and its adsorption capacity is restored 100%.

In-Situ regeneration

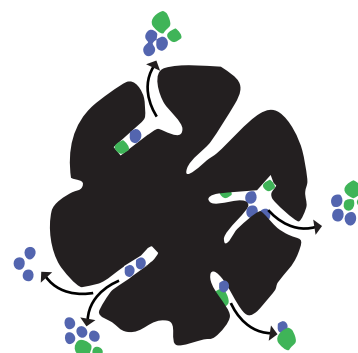
CarbonOxy R can be applied in situ, meaning the **Regeneration process** can be performed on **Activated Carbon** within treatment system, (Pressure Vessel)

Very Cost Effective

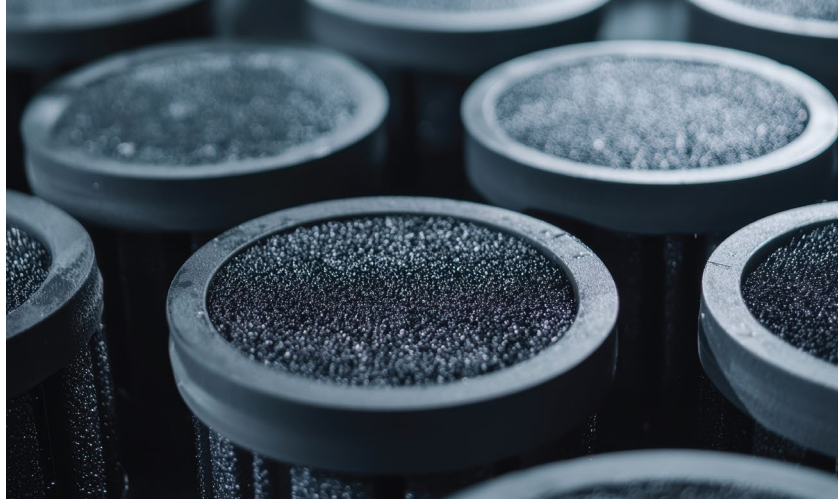
CarbonOxy R is a relatively inexpensive **Instant Product**, making it a cost-effective regeneration method.



Contaminants on
Activated Carbon



Regenerated Activated Carbon
with **CarbonOxy R**



CARBONoxy[®]

THE REGENERATION PROCESS

TECHNICAL DATASHEET (TDS)

Product Name: **CarbonOxy[®]**
Manufacturer : Watch Water GmbH, Germany

Product Description

CarbonOxy[®] is a revolutionary regenerant specifically designed for regenerating all types of **Activated Carbon** and **Filter media's**.

It restores the original adsorptive structure, and catalytic properties without damaging the carbon or requiring high-temperature treatment.

Thermal Regeneration heats the spent carbon to a high temperature (e.g. 800°C or 1472°F) in a controlled atmosphere. This process volatilizes and burns off the adsorbed pollutants. It's a very time consuming and costly process.

NOT NEEDED ANY MORE

CarbonOxy[®]

Regenerating Activated Carbon with **CarbonOxy[®]** reduces the need for Thermal Regeneration, saving costs and minimizing waste.

Improved Efficiency

Regenerated Activated Carbon with **CarbonOxy[®]** can be used for multiple **adsorption cycles**, extending its lifespan and overall efficiency. **CarbonOxy[®]** treatment is a valuable technique for restoring the **performance of Spent Activated Carbon**, making it a viable alternative to complete replacement.

PHYSICAL PROPERTIES

Property	Specification
Appearance	Crystalline powder (Pink)
Odor	Odorless
Solubility in water	Highly soluble
pH (1% Solution)	2.5 – 3
Concentration Required	5% Solution
Dosage	10 grams per liter of Activated Carbon or Filter media
Regeneration Time	1-2 Hours

A Sensational Breakthrough

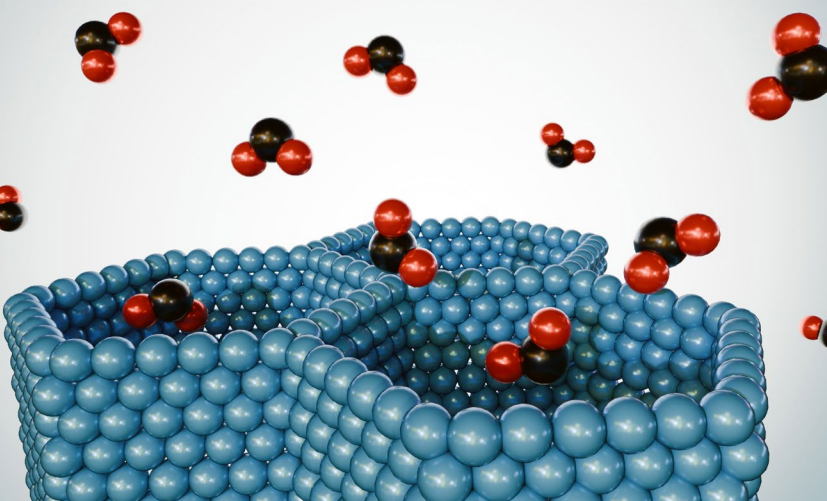
CarbonOxy[®] is not just a product — It's a revolution.

For the first time in the world, _____

**ACTIVATED CARBON
CAN NOW BE FULLY
REGENERATED DIRECTLY
INSIDE A PRESSURE VESSEL**

without needing to send it back to the manufacturer.

This exclusive innovation from **Watch Water[®]** completely transforms how the world sees **Activated Carbon**.



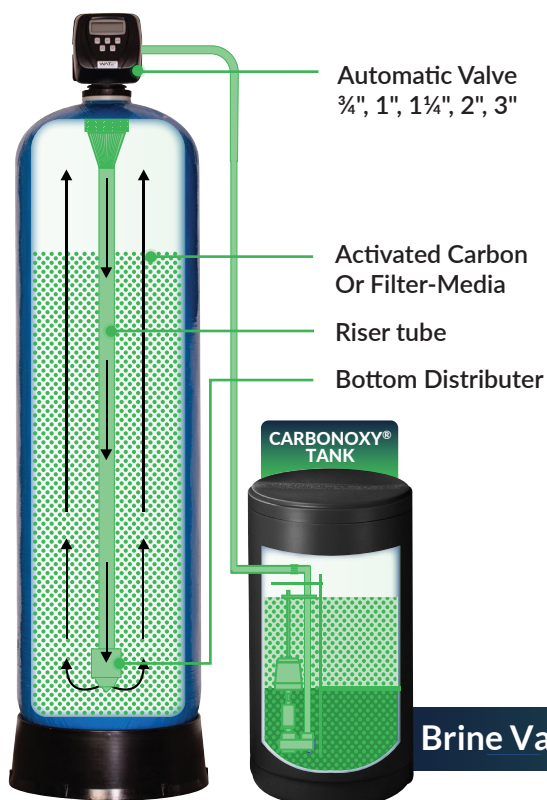
WHY **CARBONoxy R** IS A GAME CHANGER

Traditional Carbon Reactivation	CarbonOxy R® Regeneration
Requires shipping carbon off-site <i>Transport cost very expensive</i>	In-place regeneration inside the vessel <i>No transport costs</i>
High energy consumption and carbon footprint	No energy consumption and environmental impact
Long regeneration time (weeks/months)	Instant regeneration in maximum 2 hours
Very costly and very labor-intensive	Cost-effective and very efficient and sustainable overall approach
High risk of AC degradation	No risk of AC degradation

IN SUMMARY

CarbonOxy R® AOPs offer a more efficient, cost-effective, and environmentally friendly alternative to traditional **Thermal Regeneration** for Activated Carbon, particularly when dealing with **Recalcitrant pollutants** and high-volume regeneration needs. The ability of AOPs to directly oxidize pollutants and regenerate AC in situ (in pressure vessel) makes it the most promising technology for any application where Activated Carbon is needed, what-so-ever.

SYSTEM DIAGRAM // RESIDENTIAL & COMMERCIAL SYSTEM



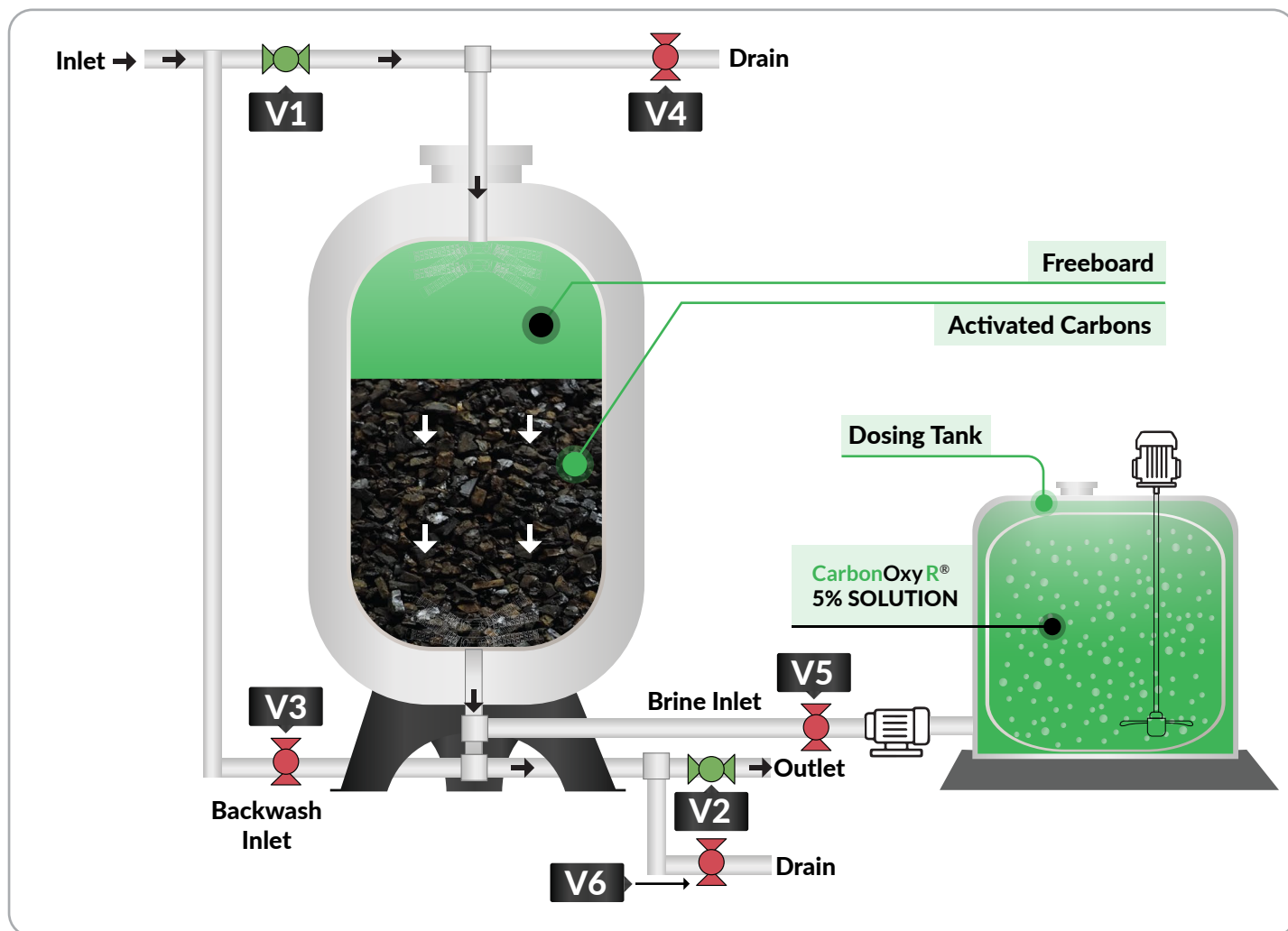
REGENERATION INNOVATIVE, INSTANT, AND IN-SITU

1. Activated Carbon or Filter Media Vessel
2. Automatic Valve (same valve as for water softener)
3. Regenerant Tank for CarbonOxy-R solution
4. Automatic Valve for:
 - Backwash Cycle
 - Solution Suction (CarbonOxy-R)
 - Rinse Cycle
 - Fully Regenerated Media Ready to Use (Service)

Brine Valve / Regenerant Tank (Fresh 5% Solution)



SYSTEM DIAGRAM // INDUSTRIAL & MUNICIPAL SYSTEMS



SYSTEM REGENERATES AUTOMATICALLY
JUST PREPARE 5% **CARBON OXY R**[®]
FRESH SOLUTION AND PRESS THE
REGENERATION BUTTON

FILTERSORB

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QUICK GUIDE : STEP-BY-STEP

1. Prepare 5% fresh solution of CarbonOxy R[®]

- 10 grams CarbonOxy R[®] per liter of Activated Carbon or Filter media (ANY)
- Make a 5% solution of CarbonOxy-R (50 grams in 1 liter fresh water)

2. Load and start

- Make 5% solution in Regenerant Tank
- Press **REGENERATION** button

3. Let System Run on Regeneration Mode

- Backwash (10 minutes)
- CarbonOxy R[®] Draw (15 minutes)
- CarbonOxy R[®] React (30 minutes)
- Rinse the Activated Carbon or Filter Media (20 minutes)
- Total Cycle 1 to 2 hours

4. Fully Regenerated

- Media is Fully Regenerated with 100% Adsorbing Capacity or Removal Efficiency

CarbonOxy R[®] is more than a regenerant — it is a **Revolutionary Leap** toward a cleaner, smarter, and more sustainable world.

For the first time in history, we can regenerate what was once considered disposable. We can protect resources, reduce waste, and restore the power of **Activated Carbon** and **Filter Media**, again and again. This is not just a product — It is a movement led by science.

INNOVATION AND VISION OF MR. DEEPAK CHOPRA.

WELCOME TO THE FUTURE OF REGENERATION. WELCOME TO

CARBONOXY R[®]

Standard Packaging



Packaging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1168 kg

★ Other packaging can be considered on request

