



MONARCH WATER

## **OXYCARBO<sup>®</sup> by CO<sub>2</sub> Enriched Water from Filtersorb SP3.**

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### About OXYCARBO Water

OXCARBO Water is unique with its super saturated natural CO<sub>2</sub> content. Carbon Dioxide enriched water therapy is well known as a cutaneous and subcutaneous which is related to carbon dioxide gas (CO<sub>2</sub>) for therapeutic applications.

CO<sub>2</sub> therapy has its origin from Royal Spas of France over many years for the treatment of patients affected by peripheral arterial occlusive disease. All over the world but mainly in Europe, people who have applied this treatment for the below, have shown very encouraging results.

- Stretch marks
- Cellulite
- Hypertrophic scars
- Eczematous skin reactions (eczema)
- Skin elasticity
- Collagen repair
- Improvement of blood circulation

Results have demonstrated CO<sub>2</sub> enriched water has improved peoples skin conditions. Carbon dioxide is a natural constituent of our very being. There are no risks known for human beings which are associated with carbon dioxide.

### OXYCARBO – The Mechanics

- a. Carbon dioxide is present in any water at all times.
- b. Carbon dioxide is present in all human beings at all times.

We breathe in oxygen and exhale carbon dioxide. Plants take up the carbon dioxide and in return give us the oxygen we need.

*Note: Carbon Dioxide is also a signal of poor blood circulation in the body.*

### CO<sub>2</sub> enriched water by Filtersorb SP3 is called OXYCARBO Water<sup>®</sup>.

How this happens in nature (water cycle and carbon cycle)?

**Water Cycle:** The Sun's heat vaporises the water to cause evaporation. This evaporated water turns into a cloud called condensation. Once the cloud gets saturated with water, it starts to rain, called precipitation. The darker a cloud, the greater the saturation. After raining, the cycle starts all over again. Some condensation may come from plants water. This is called transpiration.

**Carbon Cycle:** Carbon dioxide from the air gets taken in by plants which use it in photosynthesis to create sugars and starch which are then consumed by animals. The animals then inhale oxygen and exhale CO<sub>2</sub> back into the air. Industries take the fossil fuel – which also originates from plants – and 'sell' the processed products as oil and gas. When the bio fuel is burned it produces CO<sub>2</sub> that again go back into the atmosphere. This cycle then starts all over again.

## OXYCARBO Water in the human body

Carbon Dioxide is a waste product of the respiratory system, and of several other chemical reactions in the body such as the creation of ATP. Pure Carbon cannot be transported in the human body, so CO<sub>2</sub> is one it takes as it is water soluble. Levels of CO<sub>2</sub> also tell the body when it needs more oxygen. Carbon dioxide has 3 very different functions:

1. It is a dilator of smooth muscle. Smooth muscle surrounds any hollow space in the body i.e. bronchial airways, bladder, bowels, arteries etc. If your alveolar CO<sub>2</sub> level is low the smooth muscle around these hollow spaces will spasm and constrict.
2. Transportation of oxygen to the tissues: Oxygen is transported to the tissues through the bloodstream via haemoglobin molecules. Each haemoglobin molecule carries 4 oxygen molecules bound to it. The Bohr Effect proves that alveolar CO<sub>2</sub> levels are low then the oxygen molecules will not dissociate from the haemoglobin molecules to the optimal level.
3. It is the regulator of pH level in blood.

## Skin benefits with OXYCARBO Water

All cells in the body, regardless of their functions release carbon dioxide as their waste product.

- Heart Cells
- Brain Cells
- Skin Cells

Carbon dioxide is removed from the body by Red Blood cells or erythrocytes which are responsible for carrying oxygen (O<sub>2</sub>) in the human body. There are 30 trillion cells in the human body which are carrying carbon dioxide (CO<sub>2</sub>). In normal blood, Red Blood cells account for 45% of the total volume. On average, we have about 5 million red cells per cubic millimetre of blood. CO<sub>2</sub> is the 'cost of doing business' of any cell in our bodies. So we breathe in oxygen to our lungs, the red cells pick up the O<sub>2</sub> from our lungs and carry it to our tissues until they encounter an area that has been working hard and has excess of CO<sub>2</sub>. When the blood cells are exposed to high concentration of CO<sub>2</sub>, they flip their formation, release the O<sub>2</sub> molecules, and pick up CO<sub>2</sub> so that we can exhale from our lungs. In a sense, by absorbing small amounts of CO<sub>2</sub> just below the surface of the skin (by absorption) we are encouraging the increase of blood circulation in that part of the body. Skin becomes smoother, eye circles clearer, darkness is reduced, cellulite reduces and stretch marks are improved by ideal blood circulation. Additionally anecdotal evidence suggests that eczema and other skin conditions can in some circumstances be helped by bathing in CO<sub>2</sub> enriched water – see *Effects of CO<sub>2</sub> enriched water on barrier recovery* by M Bock, N.Y.Schurer, H.J.Schwanitz, Dept of Dermatology, Environmental Health and Theory, University of Osnabruck, Germany (14<sup>th</sup> July 2004) & *Protective Effects of Topically Applied CO<sub>2</sub> Impregnated Water* by M Bock, H.J.Schwanitz, Dept of Dermatology, Environmental Health and Theory, University of Osnabruck, Germany (28<sup>th</sup> May 1997) & *Carbon Dioxide Bath* by K.L.Schmidt, Center of Clinical research in Rheumatology, Physical Medicine and Balneotherapy, Bad Nauheim, Germany.(1962 ongoing)

*Note: The temperature of the treated water should not exceed 28°C for best results.*

## Benefits of drinking OXYCARBO Water

OXYCARBO Water is arguably the healthiest water you can drink. The Temporary Hardness is changed as follows which is very good for quenching thirst because of CO<sub>2</sub> being present in water as 'natural carbonation'. Both the water and natural carbonic gas are now captured independently.



For best results OXYCARBO Water should be sodium, chlorine and impurity free.

## **OXYCARBO Water for purification & scale prevention**

CO<sub>2</sub> bubbles can help digestion. All municipally treated tap water around the world must supply its customers a chemical analysis of their water composition. Most of them have it on their web sites. All consumers can install the Monarch CBTCTO1 dual action water filter system to give the very best of purified water available.

The CBTCTO1 filter will remove impurities including

- Chlorine
- Bad tastes & odours
- Organic chemicals
- Herbicides and pesticides

Whilst the Filtersorb SP3 media within the CBTCTO1 will provide protection against hard scale in applications as below.

### **Applications:**

- Refrigerators
- Ice machines
- Coffee machines
- Drinks machines
- General scale prevention – low flow applications.

For higher flow sites, please see [www.scaleout.co.uk](http://www.scaleout.co.uk)

### **Breathing benefits with OXYCARBO Water**

Drinking OXYCARBO Water with high CO<sub>2</sub> concentration effectively increases CO<sub>2</sub> concentration in blood and eventually in lungs that result in slower breathing or less re-breathing. As the CO<sub>2</sub> released from OXYCARBO Water fills the lungs with CO<sub>2</sub> rich air, it plays a very important part in sustaining body wellness. Thanks to physiological and bio-chemical effects of carbon dioxide on our respiratory system; in the past, carbon dioxide was considered to be a form of 'organic waste', a by-product of oxidation of cells, to be removed from a body by means of vigorous lung ventilation. Lung ventilation and gas exchange between the body cells and the atmosphere occurs during the process of breathing. The cells use oxygen which is involved in the process of cellular metabolism. CO<sub>2</sub> formed during the oxidation process is partially used by the cells and partially removed through the lungs. OXYCARBO Water provides more CO<sub>2</sub> in the blood, causing a better circulation process that carries more oxygen to the cells effectively in exchange to the OXCARBO Water provided CO<sub>2</sub>. Lack of CO<sub>2</sub> causes poor haemoglobin function and an immediate imbalance in pH value of blood that might be life threatening.