

# oxyvital.®

Indoor Air  
Purification  
Excellence

## AirOLife™ Series

High Performance  
Air Quality System



Tested to WHO  
IAQ Standards



Medical Grade  
Technology



Global Patent



Made in Germany



Air Purification  
Through Patented  
ZeoSieve™  
Technology



“ ”

“The physical and chemical nature of indoor air, as delivered to the breathing zone of building occupants, which produces a complete state of mental, physical and social well-being of the occupants, and not merely the absence of disease or infirmity.”

*Indoor Air Quality defined by World Health Organization*

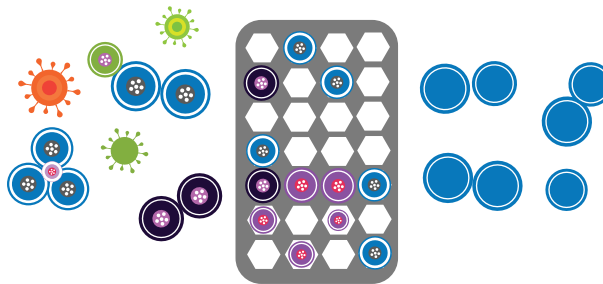
## Company Background and Technology

Founded in Hong Kong in 1998 by British and German nationals, Oxyvital® has the vision to provide urban dwellers with healthy and safe air as defined by WHO. Subsequently, Oxyvital® became an innovator in the air purification industry adopting a non-hazardous, catalytic purification method based on German medical grade technology. While standard air cleaning mostly relies on physical fabric filtration of particulate matter, Oxyvital® uses Zeolite minerals to capture the smallest of pollutants such as noxious gases and viruses. Zeolites have been commonly deployed as an atoxic catalyst in water treatment, medical application, petro-chemical gas separation and many more. With its patented ZeoSieve™ system Oxyvital® takes advantage of the nano-porous characteristics of Zeolites featuring vast, internal 3-dimensional cage and channel structures, where molecules of gaseous pollutants and even the viruses are captured and caged by intermolecular forces – without creating any harmful or carcinogenic by-products in the process.

## Air Purification through patented ZeoSieve™ Technology

### Caging

When polluted air passes through the Oxyvital purification system, the porous ZeoSieve™ traps and cages nano air pollutants in its cavities.



### Dissociation

Caged in the ZeoSieve cavities, the molecules of gaseous pollutants experience strong intermolecular forces (Van der Waal's force) dissociating them into pure elemental atoms.

### Cleaned Air

The pure elemental atoms reconstitute themselves back to the clean, simple and safe natural state of gas molecules respectively.

### Indoor Air Quality Factors Defined by Hong Kong Government

Kind	Pollutant	Acronym	Health effect / Symptom
Thermal Comfort	Temperature	Temp.	Influence on general well-being and productivity
	Humidity	R.H.	Influence on general well-being, can promote mold, fungi, mildew
	Air Movement	ACH	Influence on general well-being and productivity
Particulate Pollutants	Respirable Suspended Particulates	RSP	Breathing and respiratory symptoms, coughing, damage to lung tissue, especially in children.
	Bacteria / Viruses / Fungi	-	Diseases and chronic illnesses, allergies, etc
Gaseous Pollutants	Carbon Dioxide	CO <sub>2</sub>	Headaches, poor concentration, tiredness, irritability
	Carbon Monoxide	CO	Fatigue, headache, dizziness, nausea
	Nitrogen Dioxide	NO <sub>2</sub>	Lung infection, lung constriction, aggravation of symptoms
	Ozone	O <sub>3</sub>	Chest pain, shortness of breath, throat irritation, aggravates, chronic respiratory diseases, asthma
	Radon	Rn	Lung cancer
	Total Volatile Organic Compounds	TVOC	Headaches, dizziness, allergies, nausea, carcinogenic
Formaldehyde	HCHO	Headaches, dizziness, allergies, nausea, carcinogenic	



## Air Purification through Patented ZeoSieve™ Technology | AirOLife™ Series



This series incorporates Oxyvital®'s multi-stage, patented ZeoSieve™ technology, purifying air beyond simple HEPA filtration standards.



The AirOLife™ air purification system is designed for use in closed indoor environments to effectively remove airborne particles, bacteria, viruses, chemical gases and odors, supplying ultra clean air.



The AirOLife™ purifier comes with an advanced, highly hydrophobic, sterile HEPA EN 1822 compliant class H13 filter with a bacterial and viral filtration efficiency of 99.97+%.



The ZeoSieve™ subnano processor subsequently processes the air down to nano size removing nano pollutants such as toxic gases through adsorption, dissociation and gaging.



Unlike other air purification technologies in the market, the AirOLife™ air purification system does not create any toxic or hazardous side products, i.e. Ozone, Reactive Oxygen Species (ROS), or Hydroxyl – all of which can cause permanent damage to human lung tissue.



To date, it is the only technology that can meet the Air Quality Guidelines for all indoor air pollutant classes stipulated by the World Health Organization (WHO) and as adopted by various governments.



The appliance has been tested and certified to reduce a wide range of gaseous pollutants including Carbon Monoxide (CO), Nitrogen Di/Oxides (NOx), Formaldehyde (HCHO), Total Volatile Organic Components (TVOC's), including cancer causing carcinogens like benzene, xylene, toluene as well as radioactive Radon (Rn) gases.

## Oxygen Therapy

The AirOLife™ also provides medical grade oxygen to be applied directly to the breathing zone via cannula or mask. Inhaling nano-purified and oxygen enriched air for 30-90 minutes daily can enhance overall wellbeing and provide relief for people with respiratory conditions. If used for purposes other than Oxygen Therapy, please consult your physician or qualified technician.

For more information, please contact [info@oxyvital.com](mailto:info@oxyvital.com)



## Benefits of Oxygen Therapy



Promotes healing and counters aging (~90% of energy consumed by the human body is derived from oxygen, only 10% from food and water.)



Conditioning at permanent job stress (calms mind and stabilizes nervous system, restorative training for managers.)



Increase of general circulation stability.



Heightens concentration, alertness and memory.



Reduction of susceptibility to disease (Oxygen is vital to the immune system, memory, thinking and sight).



Speeds up the body's recovery after physical exertion (helps remove lactic acid buildup in muscles).



Provides a natural remedy for headaches, migraines, hangovers, fatigue, stress, jet lag, cramps and exhaustion.



Increase of mechanical performance reserve strongly reduced at ripe old age and therefore increase of individual expectation of life.



Conditioning after intensive stress to minimize the aftermaths (danger of heart attack also in younger years, fatigue, difficulty of breathing, reduction in vitality and so on).



Strengthens cardiovascular system and reduces the risk of heart attacks.



Interactive  
Touch Screen  
Interface



# Fighting Illnesses and Sufferings



Acceleration of rehabilitation after serious illness. e.g. heart attack.



Influence on certain liver diseases, support of detoxifying function of liver at toxic load.



Combating circulatory disorders in extremities (intermittent claudication, prevention of amputations).



Amelioration of toxic side effects of conventional cancer therapies (operation, radiation and chemotherapy).



Reduce frequency and severity of migraine attacks.



Reduce side effects and increase of the main effect of drugs.



Strengthening of inspiratory muscles in pulmonary emphysema.



Acceleration of wound healing.

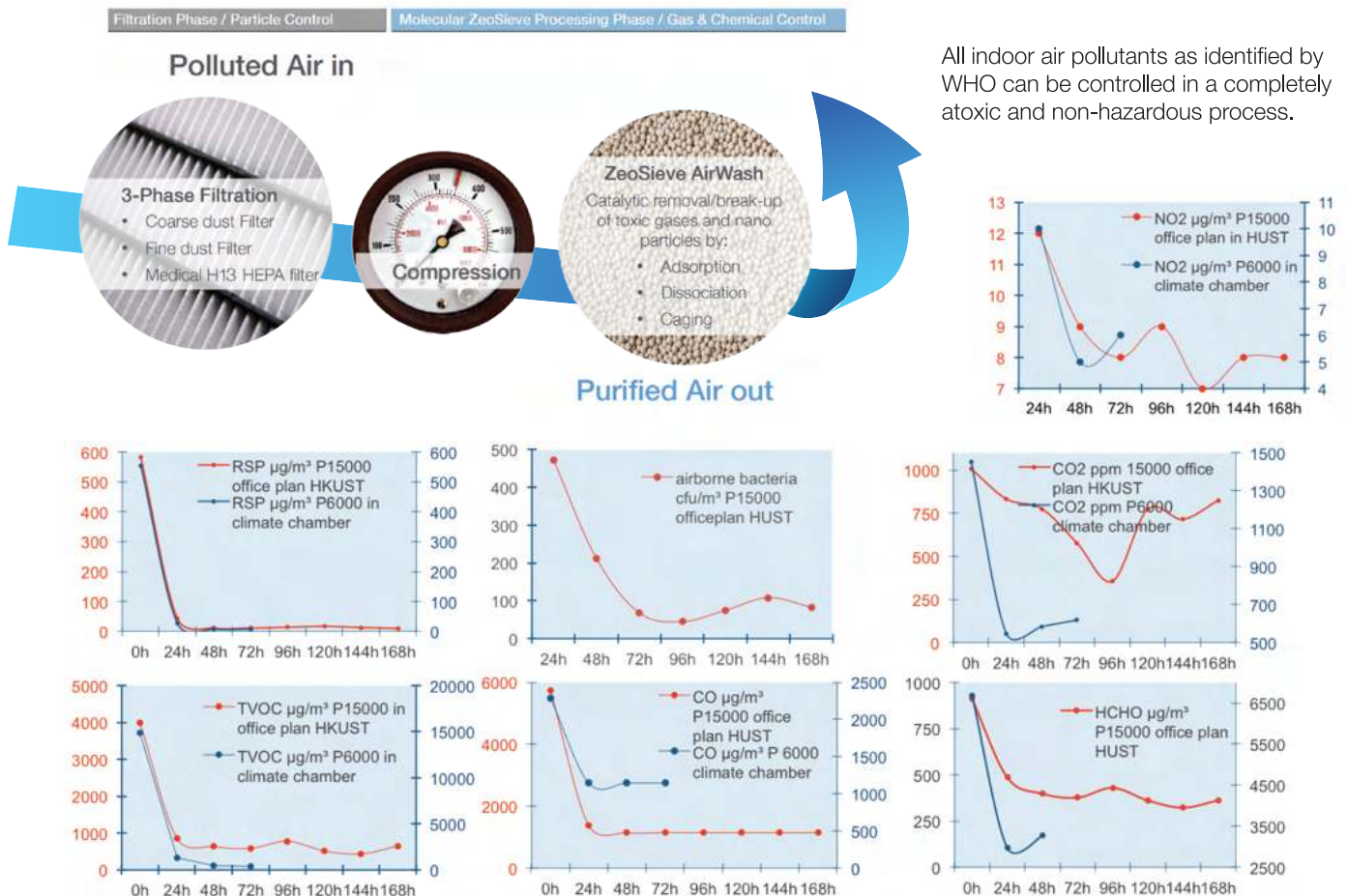


Reduction of frequency of angina-pectoris attacks by support of perfusion of coronary heart disease.



Improvement of bronchial asthma and shortness of breath.

## Independent Tests Carried Out in Hong Kong, the U.S. and China P.R. Confirmed an Unprecedented Effectiveness for Gas Phase Control



Description	AirOLife™ Series
Ambient temperature operation	10 °C to 40 °C
Output pressure	Max. 600 mbar
Oxygen measurement	21-96% Vol.% O <sub>2</sub> +/- 3 Vol. % O <sub>2</sub>
Dimensions	550 x 215 x 550 mm
Casing	RIM polyurethane
Net weight	approx. 21 kg
Line voltage	230 V+/-10% 50 Hz
Nominal current	2.0 A
Air supply ZeoSieve™ system	~ 100 L/min, non-adjustable
Filters	Coarse Pre-filter, Fine Pre-filter, Bacterial Air Vent Filter, Micro HEPA Filter and ZeoSieve™
Oxygen concentration	≤ 3.0 L/min: 95 +/- 3 Vol.% O <sub>2</sub> ≤ 4.0 L/min: 90 +/- 3 Vol.% O <sub>2</sub> ≤ 5.0 L/min: 82 +/- 3 Vol.% O <sub>2</sub>
Sound pressure level	approx. 39 dB(A)
Power consumption	350W
Country of production	Germany
Warranty	1 Year
Flow rate	1-5 L/min

 Replacement Parts

#### Coarse Pre-Filter

Clean filter fleece once a week. Can be washed with water.

#### Fine Pre-Filter

Exchange every six months or after max. 2,000 working hours by service technician.

#### Micro HEPA Filter

Exchange every six months or after max. 2,000 working hours by service technician.

#### ZeoSieve™

This molecular filter is the core of the system and needs replacement after aprx. 24,000 operating hours.

#### Bacterial Air Vent Filter (for oxygen enriched air)

Exchange every six months or after max. 2,000 working hours by service technician.

#### Inhalation Equipment (e.g. nasal cannula) and Oxygen Extension Hose

Please consult your physician for personalized medical advice ( If required )

#### IMPORTANT NOTE

All maintenance intervals are guidelines only and subject to specific environmental conditions and usage. Filter lives can be reduced due to adverse conditions such as high temperature, humidity, dust, high pollution, smoke, lack of ventilation, etc.

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