

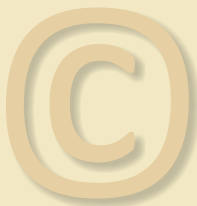
Products Executive Summary



Blue Building® - where Environment begins

Blue Building® Concept

Products 2022



Please note/Disclaimer:

This document is for the confidential use of those persons to whom it is transmitted and intended. All contents of this brochure (information, designs, projects, photos, illustrations, pictures, graphics, texts and other materials) are subject to copyright and other laws protecting intellectual property.

The recipients agree that they will not transmit, reproduce or make this information or any material contained herein available to anyone. No person has been authorised to transmit any information or to pass this presentation on to a third party.

All potential investors must satisfy themselves as to all matters relating to the entity or assets including all the information and statements contained in this document. They must rely upon their own enquiries and investigations and not upon the information and statements contained herein. Accordingly, Blue Building Holding (in corporation pending) and/or The-Environmentalist does not accept responsibility for any information contained herein and disclaims all liability to any person or entity arising out of or in connection with such information.



Ahead of the Curve

Blue Building®

promotes a unique concept. All facilities within the projects, i.e. water, energy, air, climate control, sewage and water recycling are the most environmental-friendliest. The reduction of the energy and water is the highest possible.

..... more than 80 % energy and water savings
Interior 99.995% reduction of dust particles
Humidity constantly at 50-60%
No mould, fungus and germs
Short construction period due to prefabrication
Silent and comfortable ambience, best sound insulation
Average life span of 100 years and more
Quality from Germany, made in (Country of Partner)



Where environment begins...

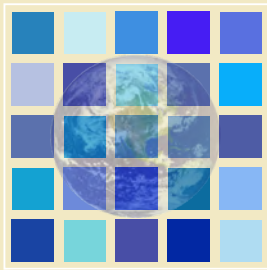


Wo Umwelt beginnt ...

Why Blue?

Expanding the notion of sustainability into a new dimension in the construction industry:

The BLUE Building® Concept reaches beyond all conventional and often misleading superficial calculations of ultimately fictional energy savings in buildings. The true balance of environmental impact exceeds the computation of the amount of energy consumed to provide habitable conditions: taking not only the comprehensive balance during the entire life cycle - including production and recycling - into consideration but also the dynamic gain and loss generated by users and daily changes of the environment.



Unser blauer Planet

A key to understand the Blue Building® Concept is the recognition of water as the “source” of all life versus any other media carrying “energy”.

Therefore, a comprehensive concept of recycling interrelated to energy generation and conscientious consumption will prove to be the only true concept to save the environment sustainably.

Blue Building® Concept

The Blue Building® system combines the most modern construction techniques with groundbreaking advances in sustainable building. The combination of these techniques enables bespoke, design-led buildings at low cost and in the shortest possible construction time.

All techniques and technologies used in the Blue Building® system are intended to meet or exceed the standard (passive house, zero energy house, plus energy house low energy house) in the future. The energy consumption is currently about 13.20 kWh/m²a for 5 people.

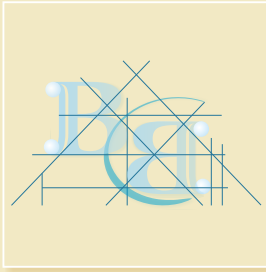
The Blue Building® Concept represents the culmination of 35 years passionate research and development into environmentally friendly and sustainable technologies, techniques and working concepts in construction, renewable energy and water, enabling a cleaner and safer future for our blue planet.



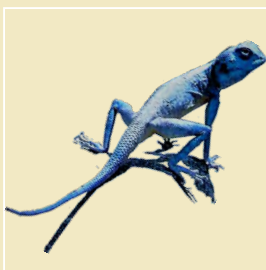
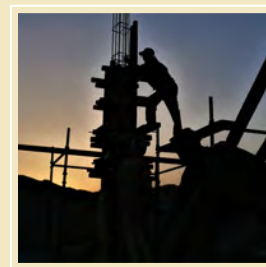
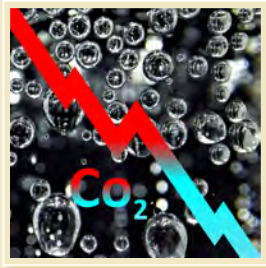
Causality denotes a necessary relationship between one event (the cause) and another event (the effect), which is the direct consequence of the first. The cognition is composed by the answer to the question of the wherefrom and the connection with the whereto.

Knowledge can be raised if it encompasses the fountainhead, progress and conclusion.

The-Environmentalist

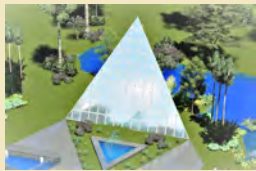


The most important advantages of the BLUE BUILDING® Concept That makes the difference:



1. Buildings that exceed the German passive house requirement by up to 20%. A self-sufficient building is in planning (incl. water & energy)
2. No energy required from outside sources in the future (Blue EcoPower)
3. Controlled internal air circulation: no dust particles (up to $PM_{0,05}$), no pollen, no virus and odourless
4. Zero emission from sewage, exhausts, and wastes; recycling of all sewage and organic waste, -
5. which is used to produce fertiliser for trees, lawns and vegetables
6. Silent and healthy radiating cooling or heating system
7. Air Circulation system is able to reduce CO2 levels indoors by up to 47.5% compared to outdoor levels
8. Additional drinking water treatment (HWT 90)
9. Prevention of legionella formation
10. Thermally activated building mass: minimal temperature swings
11. Water saving for drinking and irrigation systems in the garden area
12. Exceptionally low thermal conductivity: U-value walls less than 0.1 and Ug-value windows less than 0.5
13. Reduction of dust particles indoors up to 99.995%
14. Humidity adjustable to constant at 50-60%.
15. 110% more internal light intensity;
110% more UV light inside – good for occupants and plants
16. Short construction period due to prefabrication of all components and careful planning
17. A reversible cooling/heating system instead of an additional air conditioning system (winter/summer)
18. Best sound insulation, indoors 32dB(A) during the day and 20-30 dB(A) at night
19. No mould, fungus and germs
20. Average life span of the building of 100 years and more
21. High energy saving of all electrical appliances
22. Interior lighting, healthy light, high energy savings
23. Continuous monitoring of all parameters of the cooling and heating system for each building with the help of the BBD Data collection (ecological footprint)
24. Place for self-discovery, place for cosiness, - to live in harmony with nature





Glass Pyramid



Standard Villas



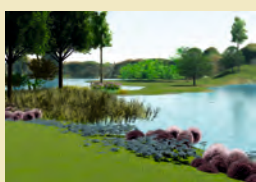
Mid-range Villas



Luxury Villas



Urban Design



Landscaping

Blue Building® houses are planned individually and customized.

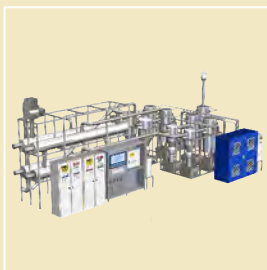
From the planning stage until hand-over of keys, the Blue Building® system provides technical support to the architect, civil engineer and client, preventing potential sources of error. The system consists of the Blue Block System (wall), ceiling and roof elements, which are connected by a tongue and groove concept and can be adapted to current needs. These elements are calculated with CAD software and then prefabricated.

The building technologies used were developed specifically for the Blue Building® Concept. Some developments (for example the Pascal Stone thermal insulation) have taken 25 years and are also used in other Blue Building® innovations. The concept of Blue Building® construction dates back in part to ancient times. Experience from other low-energy house standards, especially the German standard, has also been incorporated. The Blue Building® houses meet and exceed the requirements of the German passive house. The extraordinary ease of transport and assembly further distinguishes the Blue Building® system from competing prefabricated building systems.

Blue Building® elements come with an integrated cooling and heating system, air conditioning, thermal and sound insulation as well as fire and corrosion protection. Additional wall covers are unnecessary. All technologies shown are proven systems by European DIN and are operating successfully in Germany and worldwide.

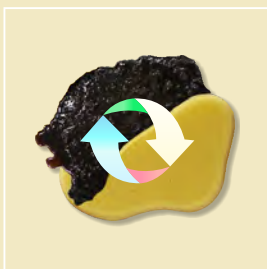
Some of these developments are unique and cannot be copied.

Construction:	Short construction time Completion of the shell construction after 6 days thanks to the Blue Block System, handover of keys after 45 days
Architecture:	Feel-well effect through harmonious construction; Avoidance of the Sick Building Syndrome
Healthy:	Indoor climate through low-impact air movement, humidity control, dust and bacteria filter; energy saving natural and artificial light sources, low heat output, reduction of electric smog; dust filtering; biological filter; supply of healthy drinking water
Environmental Care:	Recycling of sewage waste, energy saving
Outside area:	Cooling /Heating tent (pergola), with climate control (heated or chilled) for outdoor areas in hot summers or cold winters with approximately 26°C; nature with a cosy atmosphere
The wall:	Extremely good insulation, for example in the United Arab Emirates a U-value of 0.09 w/m²K was achieved, with particularly hot outside temperatures in summer: Surface temperature inside: 20.6° C Surface temperature outside: 54.8° C



Ecorefine

One of the most alarming causes for concern in the world today is the significant increase in hazardous, harmful waste and its mixture. The Ecorefine technology has a solution to this conflict; it is able to recycle 99.995% of all organic waste. It is applicable in many areas and is characterised, among other things, by its ability to clean oil waste. Whether from an oil field contaminated with oil sludge, in an oil tanker thick covered with oil deposits or an oil slick from a disaster at sea: Through a specially developed refining process, these contaminants are purified to almost 100% profitability. In the case of an oil sludge, the oil is refined into diesel and the soil that has been contaminated with additives can be beneficially used as a base material in other industries.



Similarly remarkable achievements are found in many other dangerous and safe waste deposits including:

Medical Waste	chemical Waste
Food Waste	contaminated Soil
Grinding Sludge	organic Waste
Green Cuttings	Water Desalinisation

The advantages for our environment and the financial benefits are obvious. The application possibilities are almost unlimited. There is no doubt that Ecorefine technology is the greatest advance in recycling technology, also due to its continuous mode of operation.



Sterilizing is the cleanest solution. Bacteria, fungi, prions, etc. are destroyed by the subsequent sterilisation. This sterile waste can be returned to the economic cycle without any problems.

Blue Sewage

The cleanest, most environmental friendly, safest and at the same time most cost-effective solution in the purification of sewage/sewage sludge.

Based on the phenomenal Ecorefine system, Blue Sewage is the most advanced and 100% environmental friendly sewage system available on the market. Like most of the techniques and technologies in the Blue Building Concept, Blue Sewage is adaptable and can therefore be used in a single house or in an entire city.



The Blue Sewage System recycles almost all household waste. It produces clean water for garden irrigation, organic waste is recycled into fertiliser. For a single house, this can be used in the garden as a highly effective source of nutrients; for a city, the treated solid waste can be pelletised and sold as high-quality household and agricultural fertiliser. Costs turn into profit. Blue Sewage is synonymous with efficiency: this system is energy-efficient, odourless and, above all, environmentally friendly thanks to the lowest possible exhaust emissions.



The Blue Building® sewage treatment is characterised as follows:

- recycling on the same day
- greening landscape and the city
- saving 50 % energy
- up to 80 % water for irrigation
- small space requirement
- no smelling
- no pollution
- outstanding results



The addition of a specially developed mineral fertiliser (powder) and water to the cleaned organic waste dried by ECOREFINE results in a transformation into compost or humus. The nutrients contained in the mineral fertiliser, add natural bacteria to start the process of biological activation. Food leftovers, green waste, fish waste, sewage sludge, etc. are converted into high-quality fertiliser.

Adding fertilisers to the cleaned organic waste replaces everything that the plants have extracted from the soil, with the exception of humus. Humus, however, is the only guarantee of healthy growth, freedom from pollutants and lasting fertility. The method described above can be used to turn a desert into arable land and at the same time reduce food waste (from hotels, restaurants, private individuals), green waste, etc.



Composting:

Municipal, commercial, agricultural, private organic waste, green cuttings and bark.

Contaminated Sites:

Microbiological soil and surface decontamination of biological waste treatment plants of residual waste. Revitalisation and regeneration of subducted, (Ecorefine) cleaned, decontaminated soils and substrates, sewage sludge, manure.

Composting of areas:

Agriculture, gardening, private garden, fruit growing, cultivated pasture.

Livestock:

Deep litter, droppings, manure, horse stables, small scale farming, and poultry- farming.

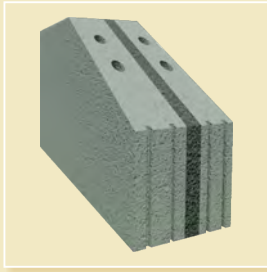
Landscaping:

Lawns, golf courses, parks, nature reserves, water protection areas.

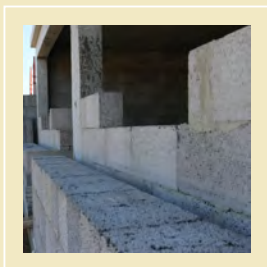
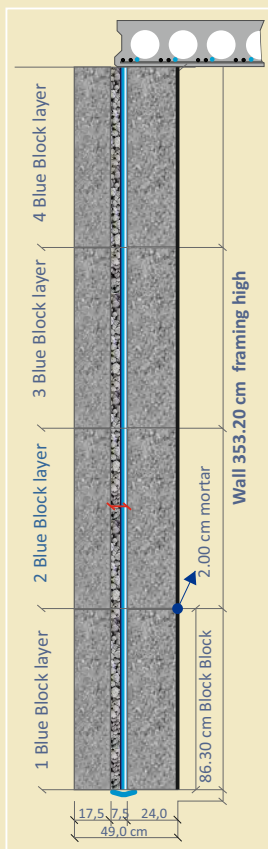
Humus blocks:

Saving up to 80 % irrigation water,
Water absorbency 800-1200 ml/100 g,
Minimum dry organic matter content 95%,
Water content 40-50%,
Volume weight of the humus blocks: 100-200 kg/cbm





**The advantages
at a glance**



The Blue Block System

The Blue Block System is based on advanced prefabrication techniques that allow the client to build a tailor-made shell construction in less than a week. By using factory-cut bricks made of lightweight, environmentally friendly Pascal Stones, a flawless result is achieved. The system consists of a double-wall filled with Pascal Stones that achieves an astonishing U-value of $0.09 \text{ W/m}^2\text{K}$.

Additionally, the lightweight concrete used in the Blue Block system is both fireproof and provides outstanding soundproofing. The concrete is a certified fireproof building material and can be installed as a firewall.

1. Timesaving's

With BLUE BLOCK plan elements + calibrating layer the floor height is already reached. This results in time and cost savings.

2. Reduced labour costs

Supply of customized blocks allows for fast and easy handling. The sawing of important components on the construction site is no longer necessary.

3. Higher job performance

Low physical loads on the construction workers due to the use of state-of-the-art equipment enable a much higher daily output.

4. Faster and more efficient construction progress

Exact scheduling, short construction time, reduced costs.

5. Little work preparation

Precise preparation of the processes goes hand in hand with Blue Block.

6. Easy to use

Marked elements and corresponding installation plans simplify the application, thereby processing errors are also excluded from a static point of view.

7. Everything made of one material

The system that provides everything from the high thermal insulation of the monolithic outer wall to the heavy-duty sound-deadening interior wall.

8. Guaranteed masonry quality

Precision-crafted plan elements and pass elements need only BLUE BLOCK thin-bed mortar for processing.

9. No construction debris - exact amount of material

Precise planning prevents waste costs. The optimal demand is precisely determined with CAD, therefore no stone remains on the site left over.

10. Best insulation

Excellent insulation due to $\lambda_b = 0,09$ and guaranteed BLUE BLOCK quality.

11. Interior walls without thermal bridges

The use of highly insulating leveling stones under interior walls minimizes heat bridges, e.g. through unheated rooms. Leveling stones with a thermal conductivity from up to $\lambda_b = 0,12 \text{ W/m}^2\text{K}$ are available.

12. Highest soundproofing

Excellent sound insulation, raw density classes up to 2.4.

13. Thin walls

Living space gain indoors through slim walls with high strength.



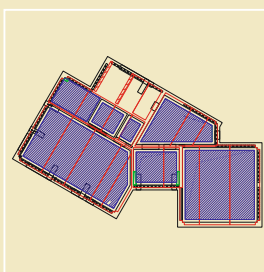
The Cooling-Heating Ceiling

With the Cooling-Heating Ceiling, Blue Building offers an intelligent and sophisticated system, which keeps both building costs and energy usage to a minimum. The Cooling-Heating Ceiling effectively cools resp. heats the room without developing drafts or creating noise that exists with conventional air-conditioning units.



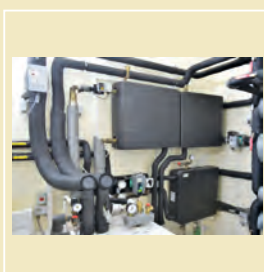
The technology is based on a piping system which is cast into the ceiling according to the ceiling plan. In operation together with a reversible heat pump, the system can also be used for extensive air conditioning in the summer. Cold water flows through the piping system in the ceiling to absorb excess heat from the air in the room, reducing the temperature of the ambient air.

Every ceiling element is individually manufactured according to plan. A fully cast piping system covering the entire surface of the ceiling is what makes our ceiling such a highly efficient heating and cooling system.



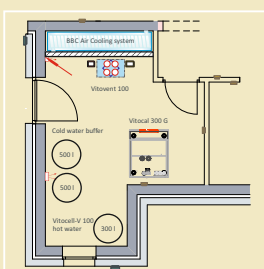
This system is adjustable. A central and cost efficient chilling unit will provide cold water, saving up to 80 % energy.

The climate control is based on water as a medium instead of treaded air. Blue Building provides a healthy and comfortable living environment without all problems regarding to hygiene touch as fungus, allergies and draughts.

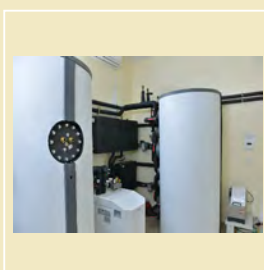


The Blue Building double wall system will have u-values of app. by $0.09 \text{ W}/(\text{m}^2\text{K})$, using a wall-thickness of 17.5 cm and a second wall with 24.0 cm; the cavity is filled with Pascal Stones. This excellent U-value ensures optimum surface temperatures in the interior with very good thermal ceiling radiation.

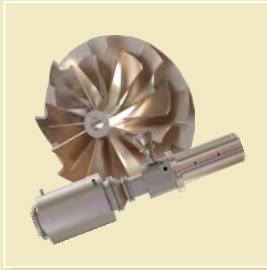
For a good indoor climate, thermal ceiling radiation and air temperature interact to produce data that scientists call operative room temperature. To feel comfortable, thermoreception must not exceed values of 23°C . Due to the use of conventional air conditioning systems, the indoor air temperature of many buildings in warm regions is very low (sometimes below 20°C); but due to the use of walls with high U-values (mostly concrete) of more than 2 to $4.0 \text{ W}/(\text{m}^2\text{K})$, the surface temperature in the interior of the wall is 27 to 38°C . These data lead to an operative thermal perception of more than 25 to 31°C .



Normally, people feel uncomfortable at such a high indoor air temperature. With Blue Building, with an outdoor air temperature of about 50°C , the indoor air temperature can be adjusted individually without any problems. At temperatures around 24°C , the occupants feel much more comfortable.



Radioactive isotopes are also a significant factor in buildings. Radioactive isotopes in building materials are hazardous to health; these are excluded in Blue Building constructions.



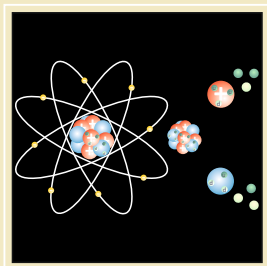
Blue EcoPower

The Blue EcoPower is undoubtedly the most significant advance in renewable energy technology this century. At a production cost of around

€ 0.017 per kW/h

it is not only cheaper than conventional non-renewable energy sources, but also, and most importantly, easily generated without negative environmental effects. When combined with the proprietary "RANO Technology", energy can be generated at any temperature and is thus a permanent source of energy, day and night, anywhere in the world.

The system is based on Pascal Stone Technology similar to zeolite adsorption and Organic Ranking Cycle combined with advanced vacuum technology. The result is the ability to produce electrical and thermal energy and, conversely, chilling water to -15°C. Like all the other technologies in the Blue Building® Concept, Blue EcoPower is scalable and economical. It can be used as a closed loop system for energy production whilst providing interior cooling and heating for a single house. Most importantly, it can be implemented at any scale up to a nationwide power generation system.



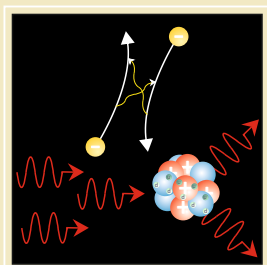
Micro Turbines

With our high-speed technology, in combination with modern material and innovative bearing technology we can tender special solutions in a wide range of applications.

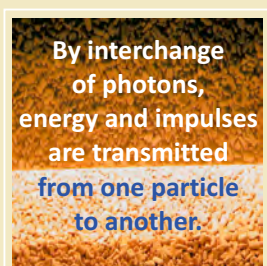


Irradiation System

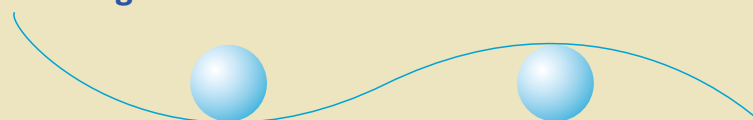
With the irradiation system, the molecular structure of the Pascal Stone is modified. This modification serves to stabilise and close the surface after irradiation with intense light bombardment by mixing it with mineralising liquid. The efficiency and lifetime of the Pascal Stone are thus significantly increased.



The result: a petrification of the Pascal Stone as nature has shown for millions of years and which is known in the form of fossils such as fossilised fish, snails, wood etc.



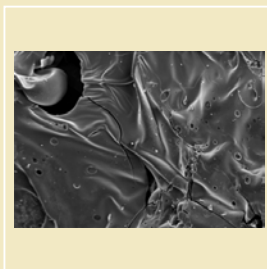
Blue Building® & BESEO



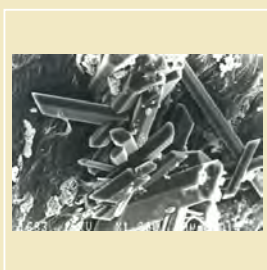
The balance between IQ & EQ



A special developed light is throwing electrons by their natural gyrating way (around their Atomic Nucleus) with high intensity into the material. So the molecular structure will be modified, the material never will be the same. This modification of molecular structure becomes stabilised and mineralized during light bombarding and mixing with a fluid.



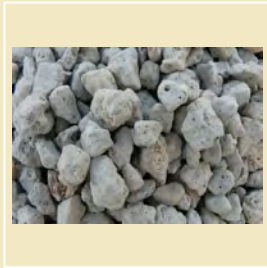
The crystal shape can be designed differently depending on the starting material and the parameters of the modification. The crystals formed on the surface can now no longer be removed mechanically (rubbing, dusting ...). The crystalline inorganic material remains present in the organic substrate of the boundary layers and is almost indestructible.



As a result, a kind of hybrid crystal is formed on the surface of the piece under consideration, which molecularly connects the organic molecular chain with the inorganic crystal structure of the silicate. The crystal formation in the surface boundary layer of the piece shows a 17,000-fold magnification of a single crystal in the left image of a scanning electron microscope.

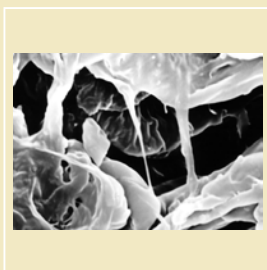
Pascal Stone Technology

The crystalline alumo-silicate Pascal Stone has the property of adsorbing water vapour, binding it to its surface and simultaneously releasing heat.



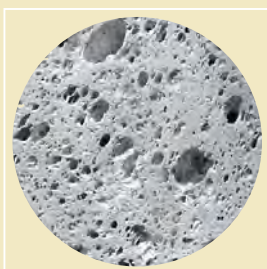
Under vacuum, the adsorption of the water vapour occurs with such force that, due to the low temperatures resulting from the evaporation, the remaining water cools down strongly and freezes into ice. This cold is used for all processes involving cooling.

Due to a special design of the apparatus, the heat has no negative influence on the generation of the cooling energy. The first process of enthalpy generation lasts until the Pascal Stones are saturated with water.



In the second process, heat is added to the Pascal Stone, which leads to the opposite result. The heat input is generated by state of the art solar energy devices.

The water desorbs from the Pascal Stone in the form of steam and converts back to liquid in the V-condenser. Once this process is complete, the Pascal Stones can be reused. An almost continuous generation of cold or heat is achieved when several sorption units are operated in staggered phases. Through the Bluetron irradiation system, the surface of the Pascal Stone is changed in such a way that a long-lasting economic use is guaranteed.



The additional purification of the water not only ensures optimal cooling or heating without draughts, but also avoids the use of chemicals and achieves a considerable reduction in fossil energy.



HWT Water Treatment

HWT 90 Home Water Treatment System is a new generation of water treatment plants designed for those parts of the world where the supply of clean drinking water is problematic.

A compact water treatment system was developed directly aiming at the final consumer. The plant can be adapted to various crude water qualities - from inferior tap water to seawater - due to its modular construction. The fully automatic system guarantees a user-friendly operation and a consistently high quality.



Water Supply System / New

As our environment changes, the pressure on water supplies is increasing. What will be the greatest problem on water supplies in the coming decade? Will it be water scarcity, a breakdown in water collection and supply infrastructure, or water that has become undrinkable due to pollution? How much money has been spent and will be spent on solutions?

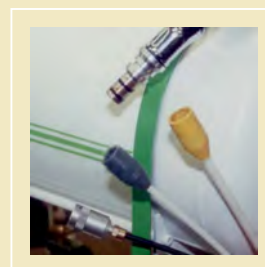
We have the key to this problem; - without chemicals; with much higher quality and at lower prices under normal market conditions; as much water as your country needs.



CLEVA

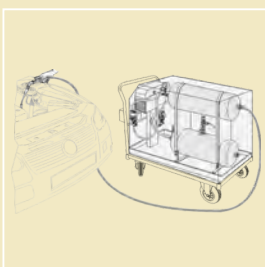
Suction device for liquids

The CLEVA from Blue Building is ideal for extracting engine oil, transmission oil, automatic transmission oil, rear axle oil, hydraulic oil, coolants and much more. Thanks to the high-speed vacuuming via a double vacuum chamber, the CLEVA achieves an extremely high suction capacity. It enables sediment-free extraction even in remote or hard-to-reach areas, such as inside car engines, and offers ideal cleaning performance.



Five convincing advantages: In contrast to the conventional suction pump principle, high-speed vacuuming sucks out all liquid media, including the sediments present, without leaving any residues, since a pressure reversal is realised here. The CLEVA is equally suitable for all liquid media of different viscosities. By using special adapters, the system can be used universally in many technical areas.

The vacuum principle requires a closed system, which always ensures that all evacuated liquids reach the designated containers free of odour and dirt. Direct evacuation via the filling or inspection openings results in considerable time savings. The different media can be collected in separate containers without mixing. Disposal costs are reduced as the liquids are easier to recycle, to the benefit of our environment.





ROTAS V 15 / V 18

The ROTAS cleans completely independently and faster than comparable and conventional manual cleaning. Manpower and time are now limited only to the loading processes of the device.

The arrangement of the especially for the ROTAS developed spray nozzles ensures that the parts to be cleaned are evenly irradiated from all sides when the basket is rotated. The newly developed cleaners adapted to the spray nozzles are more effective than conventional emulsions such as cold cleaners or similar. They are skin-friendly, biodegradable and odourless.

To achieve an optimal cleaning result, the liquid is heated to over 80°C and thus the drying process is accelerated enormously by evaporation. Time-consuming manual cleaning, rubber gloves, respiratory and eye protection as well as costly hazardous waste disposal are no longer necessary and are thus finally a distant memory, in the interest of our environment.



Fields of application:

Cleaning, degreasing, derusting, dewaxing, preserving, deslagging, soaking, deoxidising, decarbonising, rinsing, etc.

WAT 2000 Industrial Cleaning Device

WAT 2000 is a high-quality industrial cleaning device that is easy to operate and almost maintenance-free.

Dirty parts are cleaned by a combination of mechanical removal and a special cleaning liquid. The environmentally friendly special cleaning agent is applied directly to the contaminated equipment elements by a flow brush and is supported by the mechanical movement of the brush.

The cleaning liquid is heated in the tank of the WAT 2000 and pumped to the flow brush by a feed pump with magnetic coupling. A temperature control keeps the temperature constant at 35°C. The electronic control unit is protected in a separate housing, which is certified according to IP 54.

The application possibilities of the WAT 2000 are absolutely versatile. Due to the interaction of the different cleaning liquids and the type of parts to be cleaned, almost all grease, oil, lubricants, soot and environmental contamination can be removed from machine, motor vehicle, equipment and metal parts.



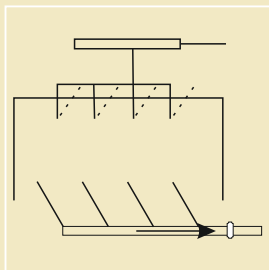
DEFI 10

The DEFI 10 recycles old oil by using vacuum technology to separate oil and dirt particles. The regained oil is of such high quality that it can be reused or even sold. The mobile unit makes it able to purify 10 to 100 litres within one hour.

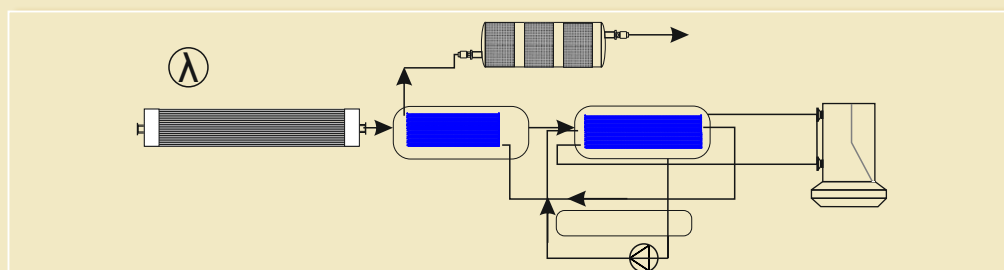
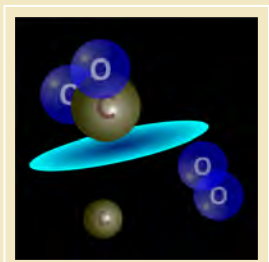
This procedure saves storage, transport and disposal costs of the old oil as well as costs for the acquisition of new products replaced by recycled oil.



BAF 2000 Benzol-Exhaust-Reduction



A reaction that has not yet been fully explored has split carbon dioxide into carbon and oxygen; furthermore, a volume contraction of the carbon has occurred.



First schematic design, 1994

Method and device for reducing exhaust gas emissions and fine dust particles from internal combustion engines. Exhaust emissions from internal combustion engines are usually reduced by catalytic post-combustion of pollutants. In this process, catalytic converters are only used effectively under certain conditions. The new process is intended to achieve a further reduction in exhaust emissions in addition to the use of catalytic converters. The reduction of exhaust emissions is achieved by passing the exhaust gases (including nitrogen oxides) through a filter system, under pressure in one or more stages with rapid cooling. The rest of the exhaust gases are routed back to the combustion engines to be reprocessed.

Furthermore, main pollutants are separated (non-limited pollutants) such as:

- Total cyanide
- Total aldehydes
- Total phenols
- Differentiated hydrocarbons
- Polycyclic aromatic hydrocarbons
- Differentiated aldehydes and ketones

Pascal Stones are used to separate the non-limited pollutants. However, the excellent performance of the catalysts also forms new chemical compounds. Furthermore, the operation of the catalysts is only guaranteed from a temperature of 250°C (approx. 2-5 km driving distance). This is taken into account in the BAF 2000 system. Altogether the technology consists of two main stages.

The following values were recorded during exhaust emission measurements:

Carbon Monoxide CO	reduced by	81.82% up to 100%
Hydrocarbon HC	reduced by	53.85% up to 85.9%
Carbon Dioxide CO ₂	reduced by	62.38% up to 70.55%

Furthermore, test trials have proven that changes have caused that the following oxygen O₂ values were measured in the exhaust gas values when using BAF 2000 technology:

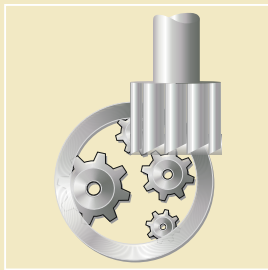
Increase of Oxygen O₂:

before 0.02% Vol. increased to 13.03% Vol. up to 15.15% Vol.



Blue Air Purification System (BAPS)

The BAPS is a mobile or stationary system that can eliminate or filter harmful fine dust, bacteria, viruses and pollen without great effort. It ensures a healthy and comfortable indoor climate and guarantees the occupants a hygienic, mould-free, allergy-friendly and draught-free exchange of fresh air. The air humidity is regulated to approx. 50-60 % and offers ideal conditions for the well-being of all residents. Allergy and disease-causing particles are filtered out or eliminated. An increased rate of air exchange can be set for family gatherings without causing draughts. The windows can remain closed, which leads to a significant reduction in energy costs. At the same time, security and comfort are improved.



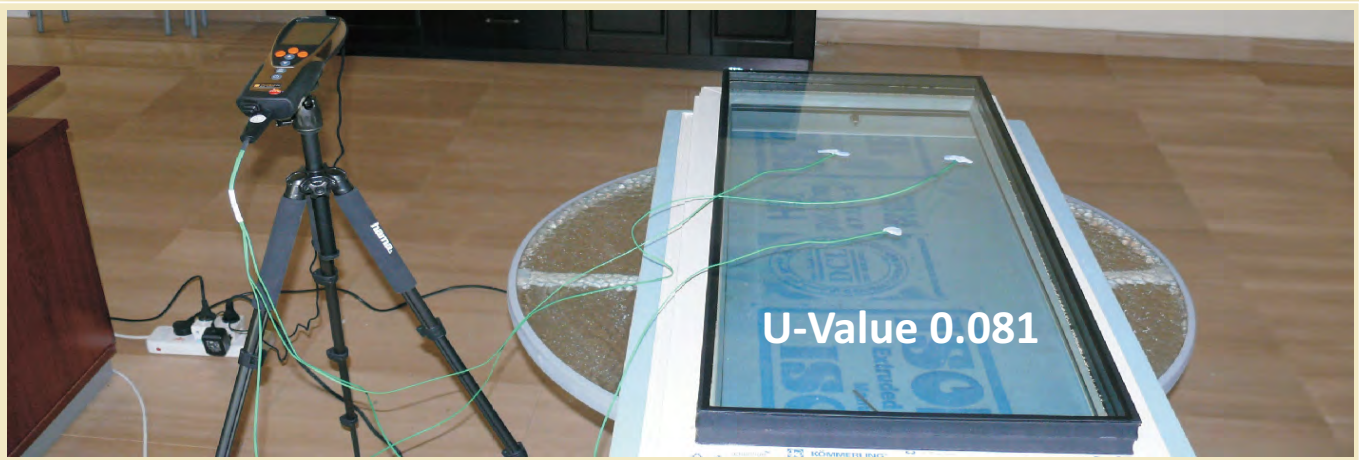
The Blue Air Purification system has run from 2014-2020 (until relocation to Scotland) in the Blue Building in Sharjah office without any problems. When this laboratory and office was built in 2014, no one expected the following result: the stationary controlled air circulation system installed in the building was not only able to remove bacteria, viruses and pollen from the air. In addition to reducing dust particles, removing pollen and bacteria, it also filtered most viruses (99.995%). In addition, this system was able to reduce CO2 levels in the building by up to 47%; a result that is unique in the world. Values of 221 ppm carbon dioxide were measured on average, while values of 415 ppm carbon dioxide were measured in the garden. From 2014 to 2020, air quality measurements were taken around the clock; the lowest CO2 level achieved indoors was 21 ppm. indoors was 218 ppm carbon dioxide.

A high CO2 concentration indoors is very harmful to human health; this value should always be controlled. The Blue Building BAPS takes into account physical conditions that have other positive aspects besides reducing CO2 levels (see BAPS Bochure). BAPS systems are necessary for offices, conference rooms, shopping centres or even large shopping streets where no natural greenery is used for air filtration. The human body needs oxygen; a CO2 content of less than 1000 ppm leads to an increase in human performance of up to 30%.



Controlled Air Circulation

Together with his partner, The-Environmentalist has initiated a revision of the controlled air circulation system and has incorporated a new cleaning system that will lead to the best cleaning results in the world. Most importantly, the end user does not have to change any pollen or dust filter. With this system, 99.995% of dust and pollutants can be filtered out, which is extremely important for human health. Blue Building: a place where people can rest and recover from environmental pollution.

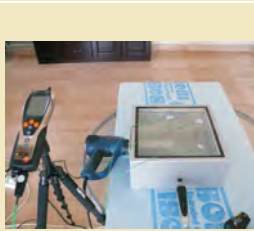


Blue Glass / New



When constructing a low-energy building, the energy consumption due to the heat transfer of glass is a challenge. With a new technology, the Blue Building team has developed "Blue Glass", which has a unique Ug value of less than 0.1. Double glazing with high protection against intruders is an additional aspect.

The next steps of our efforts is to reach a new level of improvement in the building industry. The insulation value has always been a significant factor to achieve higher levels of environmental quality. Windows of high Ug-Value are one of the key factors.



Within two days, the Blue Building Team has finished further series of promising tests, which showed very clear that we are going in the right direction. The Ug-value for the new window glass has proven to be between 0 and 0.1.

Today's Blue Windows from our partner have a Ug value of 0.5; the objective is now to ensure market-ready window production.



This is a further important step for the Blue Building®, for the humans and for our environment.



**1996 we started with the concept
"The way up to the cleanest City of the world."
These experiences reflect the outstanding results of nowadays.**



Blue Windows

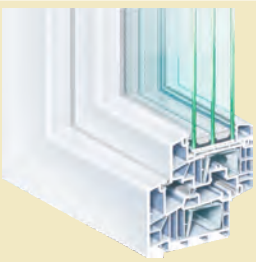
More sound insulation or more thermal insulation? More design or more economic efficiency?

These combined requirements on modern new buildings or renovations have increased significantly over recent years. The window always plays a key role in this regard, because, as an especially sensitive part of the house, it contributes significantly to the buildings overall design, including energy consumption, sound insulation and security. We are setting new benchmarks – but not just with the high performance of our PVC-U windows. This new generation of profiles strikes just the balance between diverse technical requirements – between what is desirable, and what is feasible.



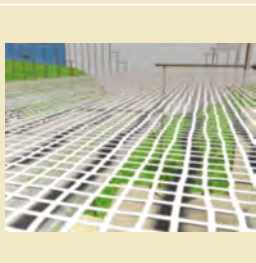
Glass Pyramid

Heat protection glass, triple glass, having a Ug value of 0.5 W/(m²K) in accordance with DIN EN 673.



Tent areas

in summer or winter for lounging outdoors at approx. 26°C. The flock fibres collect condensation - for a seating area without dripping.



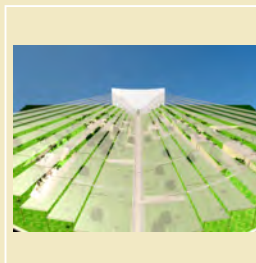
Our goal is to position Blue Building® as the undisputed market leader in the field of “sustainability” and “environment” in the coming years. Further important inventions will follow.

Blue Building – The Original

for the future construction industry, with the main focus on changing our environment sustainably.

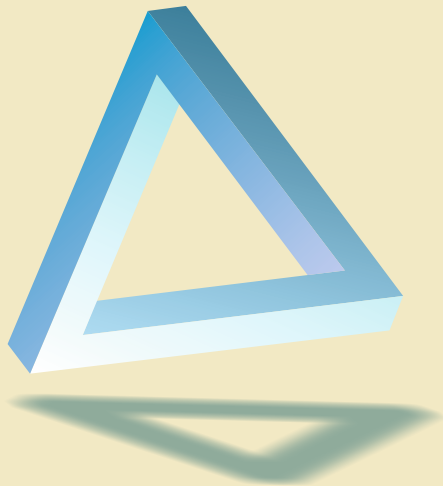
Sincerely yours,

*The-Environmentalist
and the Blue Building Team*



A philosophic tendency, stating authentic knowledge relating to renewable energy, based on scientific knowledge. The initial point should come from “positive” affirmation based on strict scientific studies.

Offering the possibility to create renewable energies in close touch with nature, is a gift of Mother Earth and our sun; and should be used with the highest priority.



To succeed, you must try to square the circle
To succeed, you must try to square the circle



With focus on the environment
and the eye for details

Blue Building® Holding Ltd.
Blue Building® Consulting Ltd.
BESEO Ltd.

23 Windsor Gardens, Gleneagles Village
Auchterarder, Perthshire
PH3 1QE Scotland

Contact: info@beseo.net
<https://www.beseo.net/>
<https://www.bluebuildingfoundation.de/>