



# JardinWall

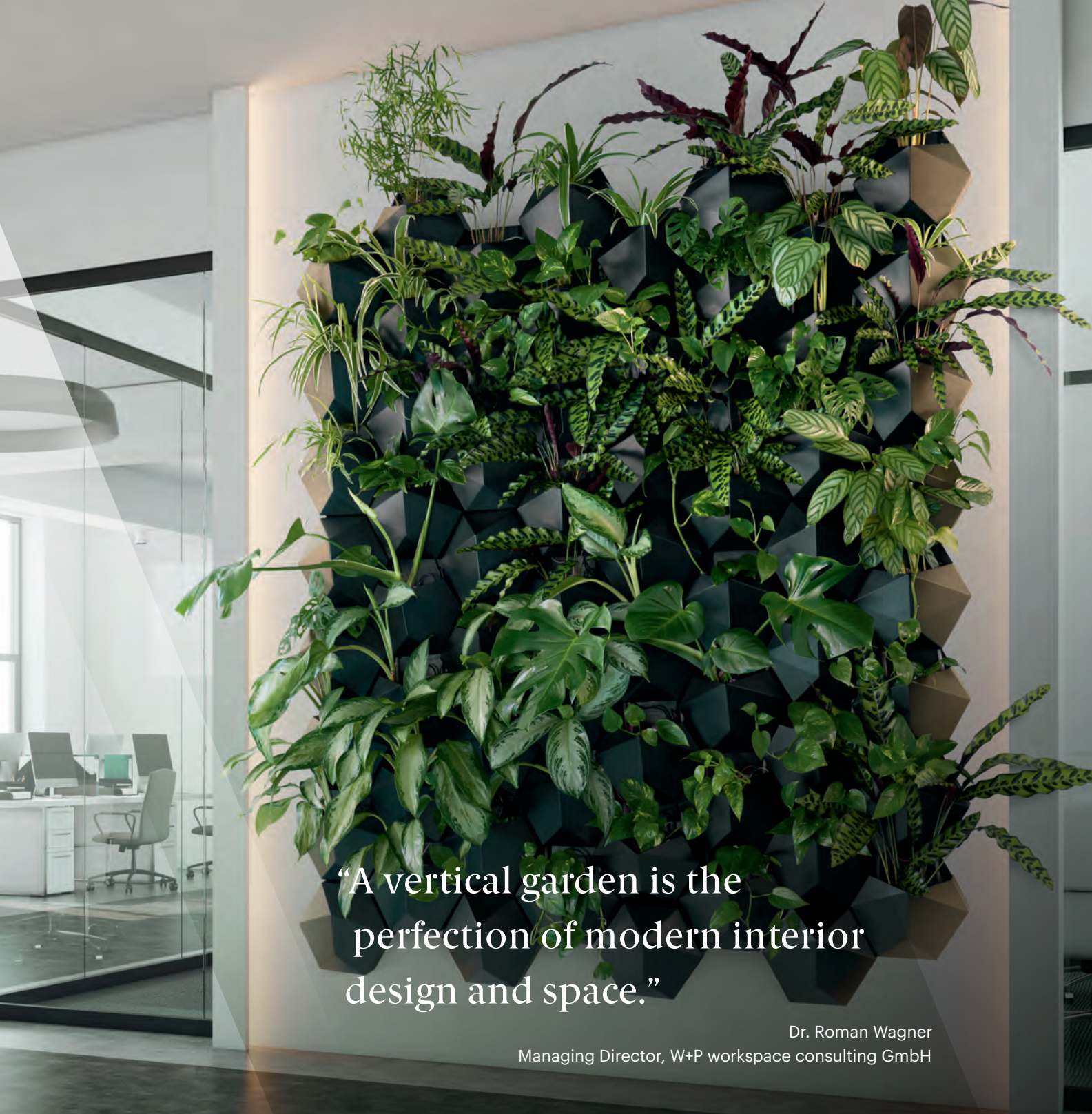
the smarter greening system

# Simply perfect room greenery

**JardinWall is the world's first, digitized and fully automated vertical garden system.**

All over the world, guests and customers, business partners, and employees are attracted to where they feel comfortable. The first choice are places with invigorating greenery and pleasant fresh air.

Intelligent greening concepts visibly enhance the attractiveness of commercial and public properties, modern retail and office spaces, as well as hotels and restaurants. **JardinWall** is the technical perfection of the vertical garden – on all surfaces, in all sizes. A milestone in the feasibility and serviceability of modern indoor greenery.



“A vertical garden is the  
perfection of modern interior  
design and space.”

Dr. Roman Wagner  
Managing Director, W+P workspace consulting GmbH

Closeness to nature and sustainability are increasingly valued. A harmonizing sense of space with pleasant acoustics and balanced lighting noticeably improves the quality of your stay. A **JardinWall** significantly enhances the value of architecture and furnishings, of places and spaces.



## W Cloud



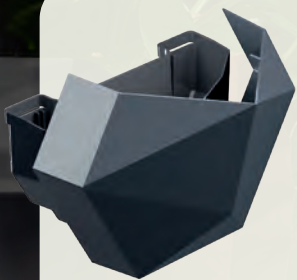
Data synchronization



Weather report



Connection to building management systems



## W PlantBox

With attractive planting and soil moisture sensor.



## W SmartUnit

Sensor-processor unit



Temperature



Air quality\*



Relative humidity



Air pressure



Light



## W SupplyBox

With water tank and water level sensor.



\* volatile organic compounds, particulate matter, approximate CO<sub>2</sub> content

# Nature meets artificial intelligence

**JardinWall is the perfect symbiosis of digital intelligence and sustainability.**

The innovative **JardinWall** is equipped with intelligent sensor technology and a digital control unit. Optimal supply to the plants is regulated fully automatically.

The measured values obtained for each plant by using a sensor are continuously read out, compared with the environmental data on room air and temperature, and transmitted to the external data cloud for further processing. The plant supply is constantly adapted to the site-specific conditions via highly specialized algorithmic processes in the data cloud.

Even the weather forecast can be included to synchronize the supply of the plants with the approximate, expected light incidence or to regulate the incidence of light via the building technology. But even without an IT network and a data cloud, the **JardinWall's** local processing unit (CPU) supplies every individual planter box with the optimum amount of humidity.

Enjoy the convenience of fully automated indoor greening with long-lasting plant health wherever you like.

# Holistically improved indoor climate

**JardinWall is your holistic system for visibly higher site attractiveness and noticeably improved indoor climate.**

## Superior greening technology



### Durable sensors

Extremely durable sensors increase the working life of **JardinWall** sensor technology to a maximum. If replacement does become necessary at some point, there is an easy way to do it.



### Smart supply

The intelligent and adaptive prediction algorithm (AI/KI) adjusts the **JardinWall's** growth regime to changing environmental conditions. The **JardinWall's** supply therefore automatically adjusts to the conditions at the site.



### Intelligent networking

By linking to a botanical database, each plant can be supplied according to its natural growth regime. Plant growth and health are visibly better than with conventional watering solutions.



### Healthy plants

Thanks to optimal supply, the plant health of your **JardinWall** supports a pleasantly fresh indoor climate – the quality of the atmosphere is visibly and noticeably increased.



### Optimal planting scenarios

The **JardinWall** is stocked with plants that perfectly fit with the environmental conditions at your location.



### Sophisticated sensor technology

Soil moisture and water level, room temperature, relative humidity, light intensity, and general air quality are continuously recorded.



### Improved environmental conditions

By networking with your building services, you can fully automatically keep the room temperature, air supply, and light intensity in the vicinity of the **JardinWall** at an optimal level.



### Artificial intelligence

Highly specialized algorithms permanently optimize the site-specific supply of the **JardinWall** – even current weather data can be included.



### Automatic supply

The local control unit continuously compares the data from planter box and environmental sensors and it controls not only the water supply but also, for example, the incidence of light.





“A vertical garden that manages itself – for us  
as real estate developers and operators, this  
is exactly the right solution”

Marius Sauter  
Rental Management  
Stuttgart Airport GmbH



# Highest exclusivity for real estate

**JardinWall gives fresh and inspiring benefits in the competition for projects and investors as well as buyers and tenants.**

Digitalization and sustainability are redefining the requirements for the overall concept of architecture and real estate. In addition to highly contemporary design language and authentic materials, modernity is expressed more than ever before in the successful integration of fresh plants: intelligent greening concepts are now a matter of course.

Whether as an innovative architectural addition to your new design or as an upgrade in refurbishment, **JardinWall** is the sustainable and natural answer to today's user needs.

The pioneering technology of this smart and fully automatic greening system allows for customizable and precisely coordinated integration into existing properties as well as into the architecture of all new developments. The fascinating symbiosis of digital intelligence and natural greenery makes the **JardinWall** an innovative flagship for upscale locations.

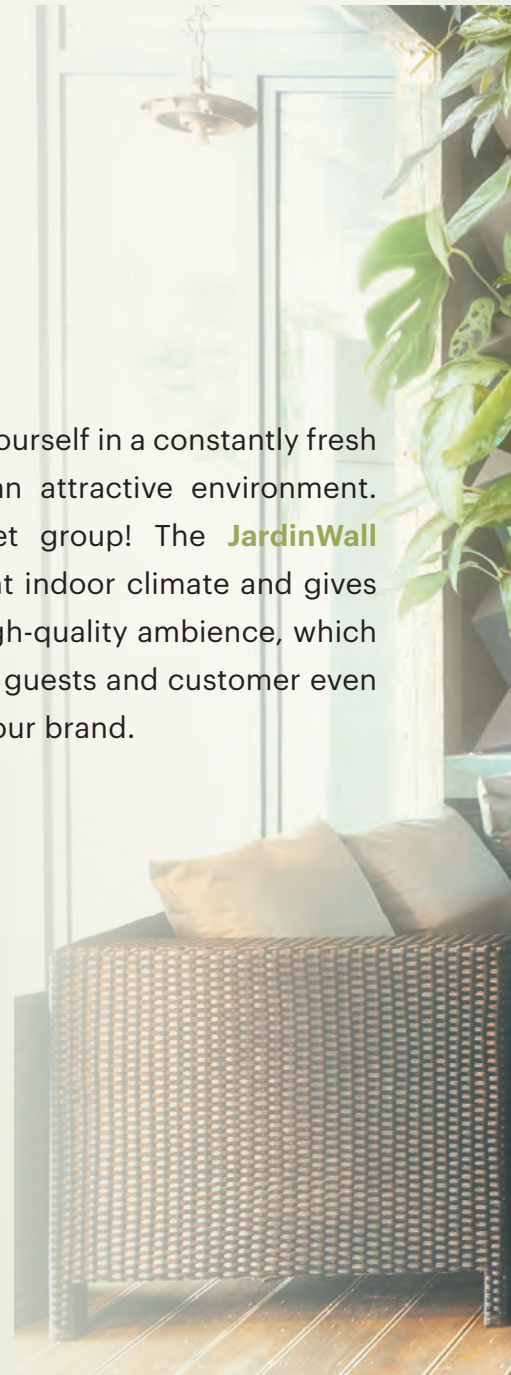
# Visibly more quality of stay

**JardinWall is virtually servicing-free, making the vertical garden relevant for a variety of locations – of any size.**

Guests and customers intuitively return to places that meet their needs for a pleasantly harmonious atmosphere. And your target group's sense of what is perceived as modern and inspiring is constantly evolving. Nowadays, the trend towards sustainability and the growing appreciation of nature make an appealing greening concept indispensable.

The **JardinWall** is the natural highlight that emphasizes features and effectively underlines the modernity of your brand. With one important difference: thanks to its intelligent control technology, the **JardinWall** takes care of itself.

By presenting yourself in a constantly fresh way, you create an attractive environment. Inspire your target group! The **JardinWall** supports a pleasant indoor climate and gives your property a high-quality ambience, which will help bind your guests and customer even more strongly to your brand.



“A vertical garden without labor-intensive maintenance: this is absolutely top news for all operators – from hotels and restaurants to shopping centers.”

Stefan Weber  
Managing Partner  
casualfood GmbH

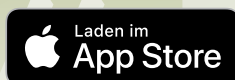


# JardinWall: your smart greening system

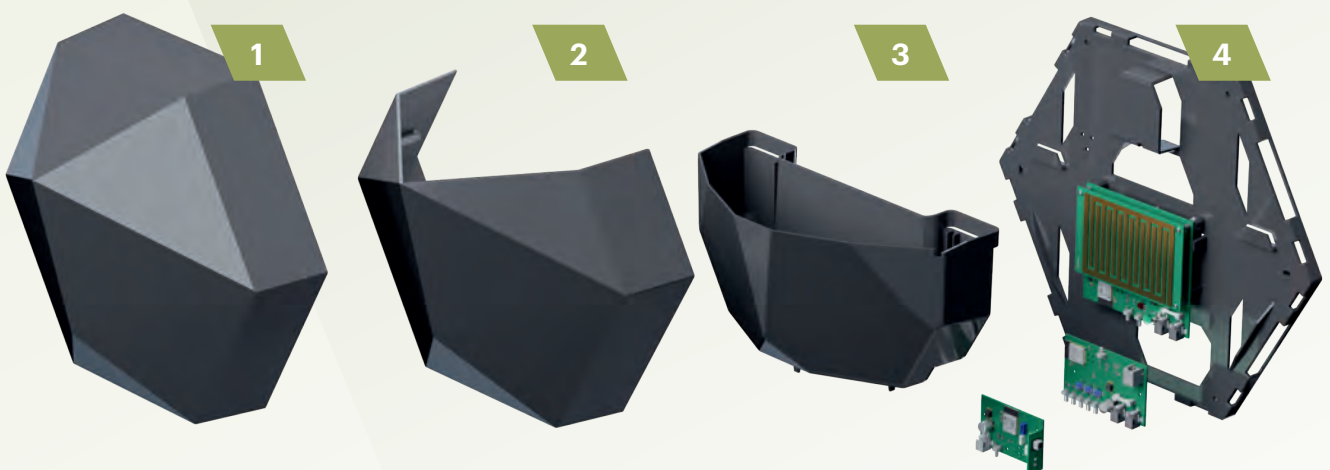
**JardinWall is a fully automatic, modular system for almost any location and all conceivable environmental conditions.**

Thanks to its flexible plant box modules, the **JardinWall** can be installed in any size of area. The central control unit knows the plant profile of each individual box and uses the sensor data to regulate hydration locally.

In the **WCloud**, the supply of your **JardinWall** is optimized to the highest possible level by specially developed machine learning algorithms (artificial intelligence), including current weather data.



With the **JardinWall** app, you can keep constant track of the vitality and supply status of your plants. All sensor data and the cloud-based analysis can be accessed at any time and are displayed in simple or expert mode.



1  SupplyBox cover

2  PlantBox cover

3  PlantBox planter

4 Board with humidity sensor and link to  SmartUnit

# JardinWall

## Key Benefits

JardinWall combines the competence of experts and scientists from three disciplines in a fully automated vertical garden system that is unique in the world.

Developed with the support of the



University of Ljubljana  
Faculty of Computer and  
Information Science



University of Natural Resources  
and Life Sciences, Wien

### IT specialists

- Product development + systems technology
- Programming, IT, AI algorithms

### Product designer

- Hexagonal planter boxes for optimal plant density and humidity distribution.
- Maximum modularity and customizability for all locations and area sizes

### Botany specialists

- Developed in collaboration with scientists of the UNIVERSITY OF SOIL CULTURE, VIENNA
- Three optimized planting scenarios for different light conditions
- Individual combination of particularly adaptable and robust plant species








# Give your location attractiveness and natural radiance.

We look forward to working with you to discuss the possibilities for an optimal vertical garden at your location.

## Contact



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