

## Air humidification

For commerce, education, leisure,  
industry, manufacturing processes,  
spa and wellness.



**HYGROMATIK**  
MORE THAN  
**45 YEARS**  
HUMIDIFICATION



Climate and process humidification

# WE HUMIDIFY THE AIR.

Since 1970, HygroMatik has been developing, producing and distributing flexible energy efficient solutions for air humidification. Our products can be applied in many areas and are characterised by their sustainability credentials in terms of quality, maintenance and long service life.



## Innovation has a tradition

In 1970, Rolf Meier and Ullrich Hoehler founded the company „Lufttechnischer Apparatebau“. Their motivation at the time: They firmly believed that controlled air humidification brings great advantages to many areas of application. Based on that conviction, we at HygroMatik have been developing practical solutions for air humidification ever since.

## Responsibility for better sustainability

As a company, we are responsible for our employees, products, community and social environment. We regard sustainable thinking and action as a necessary consequence of our responsibility. HygroMatik's first guidelines regarding sustainability were developed in our formative years and these are still decisive when profile building for the entire company today:

**“Every innovation and newly developed product line must meet the requirements of a long service life, reducing operating costs and aid the managing of resources in an environmentally friendly manner.”**

## Integrity and stability

We develop and manufacture our products at our headquarters in Henstedt-Ulzburg near Hamburg. Most of our 60+ employees have been working for the company for more than 15 years, delivering economic stability and sustainable success with their outstanding performance. Our employees are our biggest asset and so we are continuously investing in their skills development coupled with the expansion of occupational health and safety measures.

## Quality from passion - tested and confirmed

We are convinced about our products and services. We always offer our customers the best possible technical, economic and ecological solution. Our Integrated Management System (IMS) is certified for quality, environmental and work safety management. We conduct regular audits to ensure the continuous improvement of our processes to minimise the environmental impact of our company.



# OUR COMMITMENT TO QUALITY.

We are an international company operating in the air humidification sector, and we have preserved many of the organisational and cultural qualities of a medium sized company. Responsible and sustainable practices are active in all parts of the company, forming the foundation of **our commitment to quality**, which we adhere to at all times.



**Highest quality.  
So that you are 100% satisfied.**

We believe that investing in quality pays off, which is confirmed not only by our customers, but also by independent bodies such as the Plus X Award.

This has positive effects both externally and internally: Not only our customers remain loyal to us, but also our employees remain with us for a long time.

**This is also what we understand by sustainability.**



**Personal and expert advice**

We value close contact with our customers. You receive expert, specific information directly from the source. You can discuss difficult cases directly with our engineers.



**We help you quickly**

Using our hotline, you can get in touch with the right member of our team to tackle any issues you may have. We prefer short, simple routes and accept every challenge.



**Together with respect and passion**

What we do, we do with passion. We work in an atmosphere of mutual respect. Everyone is an important member of our team and our company.



**Service is our top priority**

We combine the highest quality standards with a fast and comprehensive service, including reliable logistics and a long term spare parts supply even beyond the product life cycle.



**Product development is pragmatic product innovation**

Innovation always closely reflects the practical needs of our customers and brings real added value with regard to function, long service life, processing quality and material quality.



**We always keep an eye on the environment**

Our systems have been developed to last a very long time and are characterised by technology which reduces both maintenance and wear and tear on unit components. This approach protects our environment.



# THE OPTIMUM CLIMATE

for commerce, education and leisure.

## The best air to feel good - at any time

Season-dependent, rooms should either be cooled or heated. These different temperatures have a direct impact on the relative air humidity, so precision control is needed. Without professional control of air humidity, the air in a room can quickly become too dry which has various consequences.

Optimising the level of air humidity in a room has a significant impact on the well-being and health of the people staying in it. Air that is too dry causes the eyes, skin and mucous membranes to dry out, particularly in the winter.

Materials such as paper, wood and fabrics can also be negatively affected and damaged when air humidity is too low. In addition, optimised air humidity has a positive effect on indoor cosiness and hygiene conditions, for example it is reducing the formation of dust.

## The benefits at a glance:

- Healthy, comfortable and work-friendly indoor climate
- Increased performance of employees
- Reduced dust pollution for allergy and asthma sufferers
- Protection against electrostatic charge
- Increased property value and attractiveness for commercial tenants
- High energy efficiency when air conditioning



Offices and conference rooms



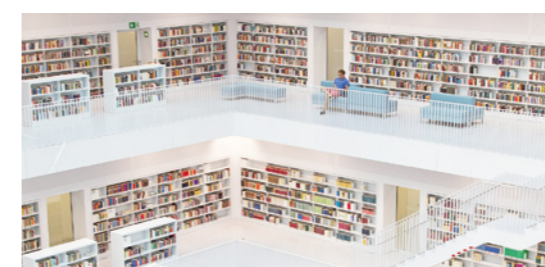
Hospitals and medical practices



Universities and educational institutions



Hotels and conference centres



Museums and galleries



Shopping centres and department stores



# CONSTANT HUMIDITY

for industry and manufacturing processes.

## Highest quality due to regulated air humidity

A stable and controlled room climate is essential for most production processes. Fluctuations in air humidity, and more importantly, air that is too dry, can have a massive effect on the raw materials used, their processing possibilities and ultimately, on the quality of the end products.

Optimum air humidity also has a positive effect on the well-being and the health of the employees on the premises.

Using adiabatic humidification systems achieves an advanced, environmentally friendly method of indirect air cooling. It is used to stabilise the heat created during production in order to achieve the best indoor climate.

## The benefits at a glance:

- Increased process efficiency by means of the reduction of failure rates and breakdowns
- Increased productivity and product quality
- Protection against dangerous electrostatic discharge
- Healthy, pleasant working climate for employees
- Reduction of operating costs due to energy efficient cooling performance



Automotive and aerospace industry



Agriculture industry



Food and luxury food industry



Plastics industry



Textile industry



Laboratory and clean rooms



# HYGIENIC STEAM

for spa and wellness.

## Relax and unwind at full steam

Steam generators are the key element in steam baths, saunas and relaxation rooms found in spa and wellness facilities. With hygienically pure steam they ensure a relative humidity of up to 100%.

Producing the ideal humidity and temperature is essential for a user's well-being and relaxation.

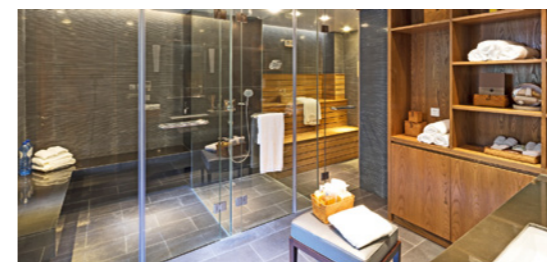
Our equipment can be used in a variety of applications, such as steam baths, steam showers, bio-saunas, healing earth steam baths, hammam, caldariums and hot yoga.



The **HygroMatik SPA** product range offers reliable and powerful steam generators to those working in public or private spa and wellness facilities.

## The benefits at a glance:

- Gentle stimulation of blood circulation and metabolism
- Body detoxification and purification by sweating out harmful substances
- Cleansing of the airways, mucosal moistening and prevention of colds
- Strengthening of the immune system and body's defences
- Relaxing effect on the nervous system



Wellness hotels



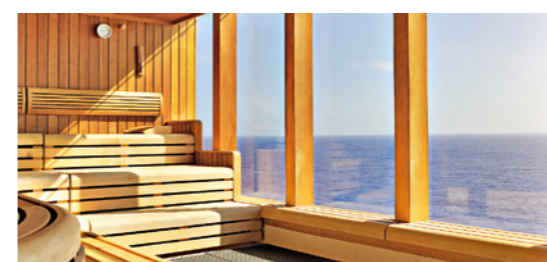
Spa resorts



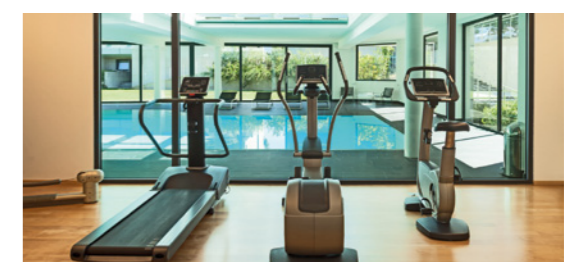
Fitness clubs



Cruise ships



Offshore recreational areas



Sports studios

# THE RIGHT SOLUTION

for every area of application.

## Pressure-free steam humidifiers

HygroMatik steam humidifiers provide pressure-free, hygienic steam for controlled **climate and process humidification** in all areas of application.

In the **spa and wellness sector**, HygroMatik steam generators ensure up to 100% relative humidity with steam produced by electrodes or heaters.



Spa and wellness



Commerce, education and leisure



Industry and manufacturing processes

## Electrode steam humidifiers

for the evaporation of water by the use of **electrodes**



## Heater steam humidifiers

for the evaporation of water by the use of **heater elements**



## Adiabatic systems

for humidification and cooling by **atomising water**



## Water treatment

Hygienic water treatment ensures significantly lower maintenance intervals and a longer service life.

Therefore, we recommend our customers suitable components for professional and correct water treatment - optimised and suitable for all **HygroMatik air humidifiers and steam generators**.



## Pressurised steam systems

for humidification with **condensate-free pressurised steam**

# WATER BECOMES STEAM - hygienic and pure.



## Electrode steam humidifiers

HygroMatik electrode steam humidifiers are especially suitable for use with normal tap water. These units always deliver the right solution when you need simple, reliable generation of air humidity or steam.

### The principle

Electrodes are arranged in a special steam cylinder. When water is introduced, the electrical circuit between the electrodes closes and the water heats up. Pure, odourless water vapour is produced.

### Sustainability

HygroMatik only uses solid full-surface electrodes in its units. Due to their solidity, they are durable and very well suited for the use of tap water.

The electrodes do not have to be replaced as frequently, keeping maintenance costs down.



Optimal in these application fields



Commerce, education and leisure



Industry and manufacturing processes



Spa and wellness



## Heater steam humidifiers

Humidification with HygroMatik heater steam humidifiers is possible with all water types, whether from a tap, partially softened or demineralised. Operation with softened or fully demineralised water is particularly low-maintenance.

### The principle

They heat the water in a steam cylinder as in an immersion heater until it becomes pressure-free, hygienic steam.

### Sustainability

HygroMatik heater steam units use heating elements made of highly corrosion resistant alloy. It is guaranteed to deliver precision control and a long service life as well as ensure a virtually interruption and maintenance free operation, when using softened or fully demineralised water.





# HUMIDIFY AND COOL - atomising humidification.



## Adiabatic systems

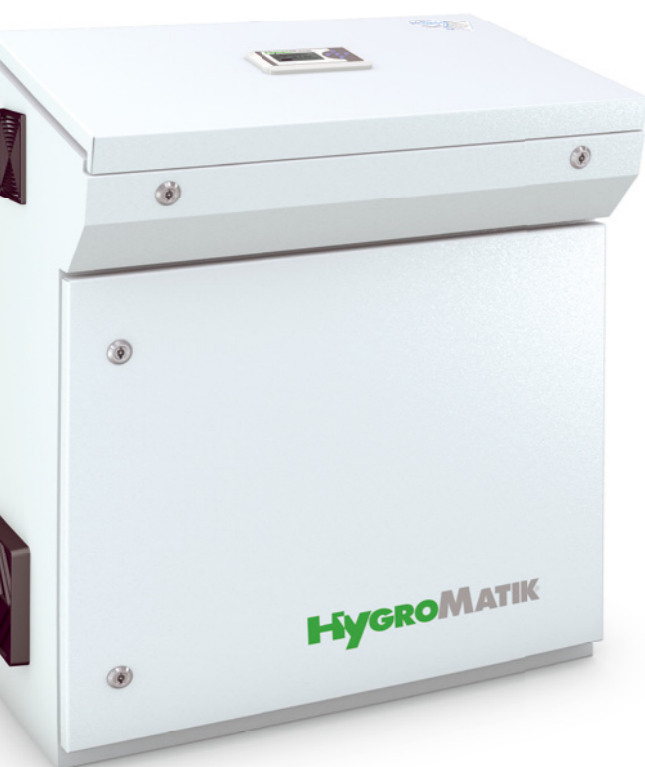
HygroMatik adiabatic systems can be used to their full potential in applications where both humidification and cooling of the air is required. This humidification method is highly energy efficient and effective.

### The principle

The humidified water is atomised into tiny droplets, or aerosols. The aerosols take the energy needed for conversion into a gas from the surrounding air in the form of heat. This means the atomisation has a cooling (adiabatic) effect on the temperature of the room.

### Sustainability

HygroMatik atomisation humidifiers are characterised by low water and energy consumption and fulfil the strictest hygienic standards even without the use of chemical supplements. This saves money and protects our environment.



## Optimal in these application fields



Commerce, education and leisure



Industry and manufacturing processes



## Pressurised steam systems for condensate-free pressurised steam

The HygroMatik DDS pressure steam system can be connected to an existing source of steam. The DDS ensures a precise, condensate-free humidification, for example in clean rooms and hospitals.

### The principle

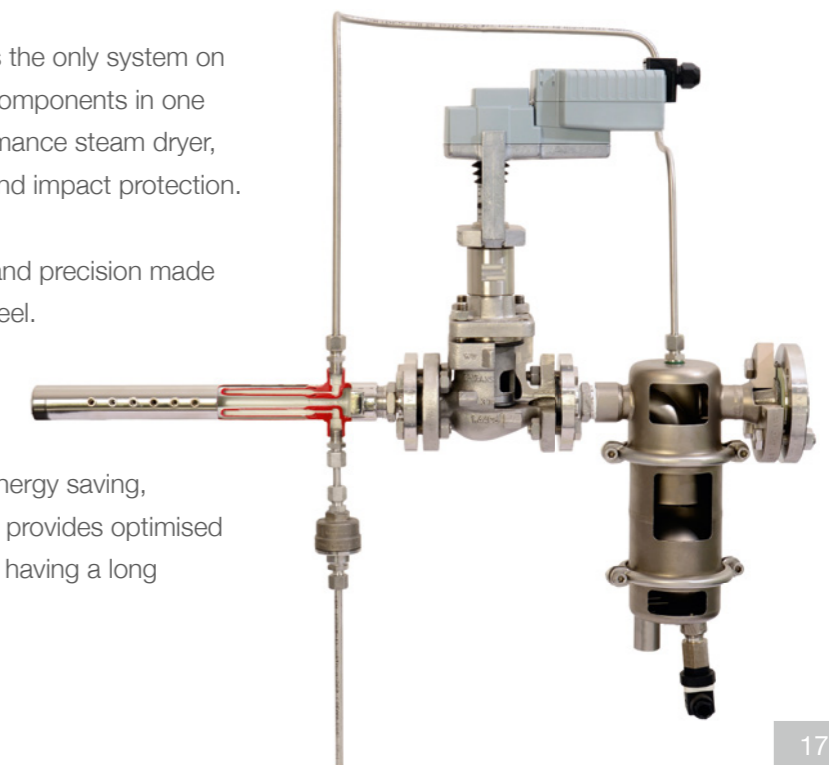
The steam flows into the steam dryer through a strainer. Then the condensate is separated from the saturated steam and dissipated via the ball float condensate drain.

### Sustainability

The new HygroMatik DDS is the only system on the market that offers four components in one compact unit: a high performance steam dryer, strainer, condensate drain and impact protection.

All components are robust and precision made with high quality stainless steel.

Compact, lightweight and energy saving, the system is easy to install, provides optimised automatic control as well as having a long service life and reliability.





# UNIQUE SERVICE. Worldwide.

„We are only satisfied  
if you are 100% satisfied.“



## Online services

- Available immediately
- Always up-to-date
- Environmentally friendly

## Extensive online services

On our website [www.hygromatik.com](http://www.hygromatik.com) you can find free downloads as well as design software to calculate the steam output required. You will also find all product brochures, operating instructions, specification documents and videos on the function and maintenance of our products. These resources are available immediately, up-to-date, digital and environmentally friendly.

## Quick Help - Technical Hotline

You can communicate directly with our engineers for any technical questions or specific applications. This ensures that you are assisted quickly by the experts.

**Technical Hotline**  
[hotline@hygromatik.de](mailto:hotline@hygromatik.de)

+49 4193 895-293

## Extensive spare parts service

Our products are designed for a long service life, so we make sure spare parts are available in the long-term for quick and easy repair and maintenance. Spare parts for any HygroMatik units are available many years after production has been ceased. This service is a part of our sustainability ambition as it facilitates the responsible use of resources.



## HygroMatik Service partners in your region

In order to provide you with a reliable service with consistent quality all over the world, we select our regional service partners carefully. In extensive seminars and workshops these are well trained by our employees.

A close-knit network of trained service partners which has increased over the years makes it possible for us to be there on site with you, with all our technical expertise.

### With many advantages:

- Fast response times in service cases
- Reliable, highly trained contacts
- Know-how of regional characteristics

Please do not hesitate to contact us if you have any questions or require further information. Our friendly staff at the head office will be pleased to receive your call and, if necessary, connect you with the right contact.



**Head office:**  
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# HygroMATIK®

WE HUMIDIFY THE AIR

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