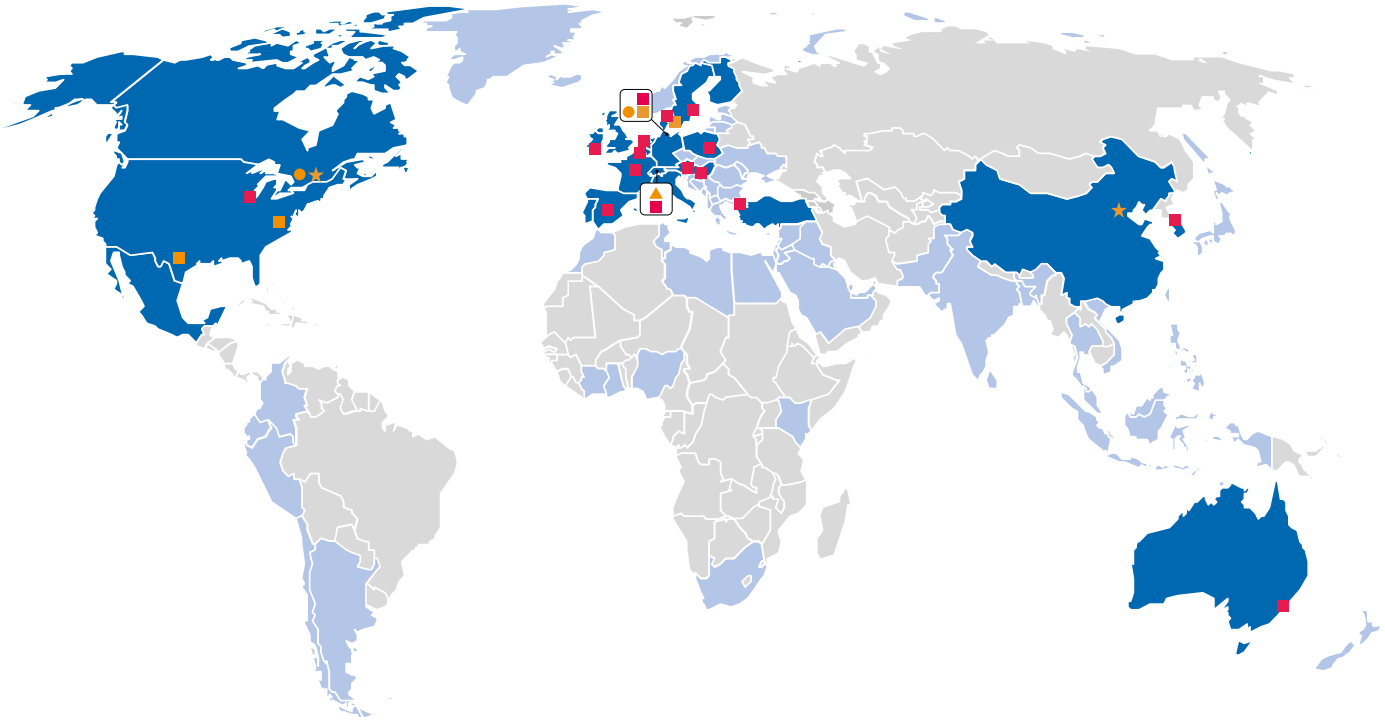
Humidification, Dehumidification and Evaporative Cooling

condair


RS09
RS19

GLOBAL PRESENCE

Condair Group, founded in 1948 and based in Switzerland, is the global leader in humidification, dehumidification and evaporative cooling. Supported by science, we engineer individual, holistic solutions that customers can trust through the entire lifecycle. With optimal humidity, we increase productivity and create healthier built environments. Condair Group has production sites in Europe, North America and China, its own sales and service organizations in 22 countries, and representatives in 50 locations worldwide.

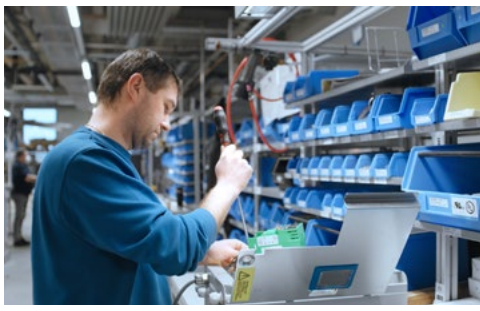


- Own sales & service organizations
- Representatives
- Country organization
- R&D center
- Production/assembly
- Integrated product development and production/assembly
- Logistics center

We are close to you too. Find your local contact person:

https://www.condairgroup.com/find-your-local-condair-distributor

CONDAIR ’S VISION, MISSION, VALUES



Vision:

To create healthier built environments and increase productivity with the optimal humidity for a better life.

Mission:

Driven by our customers’ needs and supported by science, we engineer reliable, sustainable solutions.

Slogan:

Humidity for a better life

Our values

We act on our Vision

We act in keeping with our vision, develop rapid solutions for our customers, are proactive in recognizing and developing solutions, and are innovative and flexible.

We are reliable

We keep our promises to our business partners and colleagues, relying on quality and integrity.

We are result-oriented

We deliver optimum results, we are proud to be part of the success of our customers and we concentrate on the essential.

We empower our people

We maintain an open culture, a flat hierarchy and respectful interactions with each other. We place the highest value on the safety of our employees – every day.

We improve human life

We promote health by applying the results of research, we offer sustainable and energy-efficient solutions and we improve the productivity of our customers.


condair


ONDAIR LOCATION
MILAN
11:53 AM
HUMIDI
53%
TEMPERATURE
°C
WIND
3 mph
PRECIPITATION
0%
URRENT WEATHER
HAMBURG
188243
197007

HOW WE LIVE THE CONDAIR VISION

In keeping with our vision to create healthier indoor spaces and boost productivity, we ensure optimum air humidity at our Condair locations for the health and well being of our employees.

Condair's innovative air humidification systems set new standards in regards to comfortable, convenient and energy-efficient hydration of indoor air.

One successful example is our Norderstedt location, inaugurated in 2017, with its offices and production buildings. Our vision of a healthy and safe working environment can be experienced here. The latest technologies for comfortable indoor climate supply fresh air, disruptive air flows and climate-relevant standards are met and even exceeded. We guarantee our employees a healthy indoor climate with a CO_2 content of max. 800 ppm, a relative humidity of 40% to 60% and a pleasant temperature between 20°C and 26°C. A monitoring wall provides real-time information on in-house climate data, as well as the current outdoor weather at all 22 international Condair locations.

You can rely on our comprehensive portfolio of innovative technologies for air humidification, dehumidification and evaporative cooling for the entire lifecycle of each product. We will be pleased to support you in implementing your projects and visions.

The advantages of an optimum room climate for employees are:

Increased sense of well-being and productivity

Illnesses occur less frequently

Less accumulation of dust in office spaces – important especially for allergy sufferers

Protection against electrostatic discharges

THE CONDAIR MISSION - SUSTAINABILITY

Satisfied customers

Condair location in Garching, Germany

Already at the time of our founding in 1948, we had the clear goal of sustainably improving people's lives with technological innovations. At that time we developed and produced our own rotary atomizers for disinfecting cattle stalls – an important contribution in the fight against foot and mouth disease, which was then rampant in Europe.

Health and well-being are two of 17 global sustainability goals at Condair. To ensure this, we have been working together for decades with well-known institutes that conduct both clinical and empirical studies. As early as the 1960s, Prof. Dr. Etienne Grandjean of the Zurich ETH (Swiss Federal Institute of Technology) was one of the expert consultants of Condair.

In the last decade we have strengthened our focus on scientific research, networking with scientists from various well-known universities around the world. We have also established excellent relationships with medical consultants who provide valuable information for us with their expertise. This expert knowledge, always “up to date”, is incorporated into our solutions and benefits our customers around the world.

Sustainable production and consumption

Energy and resource efficiency from product development to integrated electronic regulations provide optimum control of processes, thus ensuring the most highly energy-efficient and water-saving operation of our solutions. We strive to achieve energy and resource efficiency through the complete product life cycle. From initial product development, through manufacturing, operation and end of life.

With our expertise we support our customers in finding solutions to save energy and boost productivity.

Passive house standard at full utilization

Our production, logistics and sales location in Hamburg, which was inaugurated in 2017, met this standard from the beginning, which is an excellent result for a production site with offices!

The cutting-edge 13,000m² building incorporates many energy-saving technologies. These include geothermal energy systems and a hybrid ceiling, which operates in combination with the building envelope, to provide heating and cooling. Humidifiers are used maintain a healthy indoor humidity, as well as offer low energy evaporative cooling.

This high-tech production facility brings together four previous European production sites, as well as positioning us closer to our central markets to improve logistics.

Helping customers on the way to sustainability

With a holistic approach, we optimize our systems and bring solutions to our customers in the context of the building and the heating/cooling systems to optimize the sustainable use of resources in the application.

Health, safety and well-being

We are proud of our extremely positive record in terms of health and safety at the workplace.

With our focus on maintaining optimum indoor environmental quality, we minimize respiratory infections for our staff.

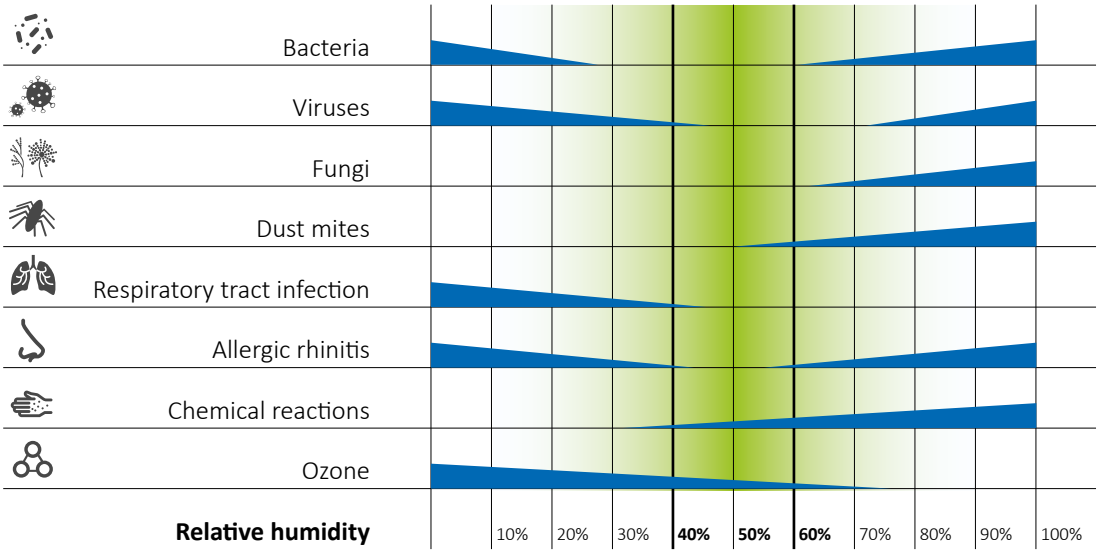
We also take all necessary precautions for the safety of our employees, both in our offices and at our production sites, to fulfill our promise of “everyone safe, every day.”

We place value on open communication, cultural diversity and equal opportunities for all.

THE PERFECT RELATIVE HUMIDITY

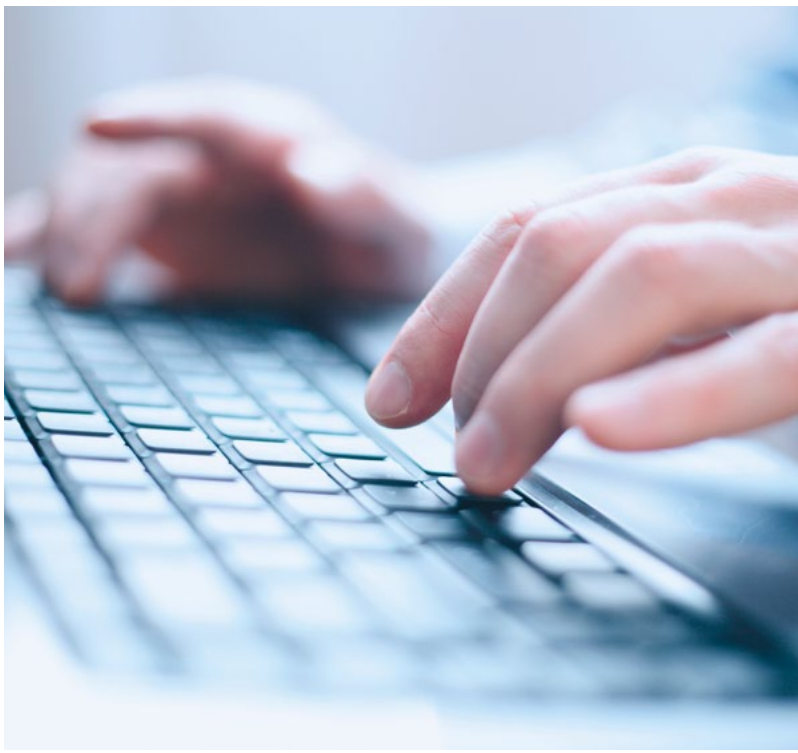
The right humidity makes a decisive contribution in a variety of situations encountered in day-to-day life – in the business environment as well as in private spaces.

The importance of humidity is so significant that many countries have clear directives for the operation and maintenance of humidification systems. The scientifically proven and recommended range of 40-60% relative humidity protects health and increases the sense of well-being for all of us. These clear limits are often difficult to maintain under day-to-day conditions. This is why we provide a comprehensive range of different humidification and dehumidification systems embodying a variety of technologies — to ensure optimal air humidity in every situation.



Scofield/Sterling diagram:
The diagram shows the relevant interdependencies at different room relative humidities for comfort and health protection. The risk posed by undesirable microorganisms and the occurrence of specific symptoms of illnesses are minimal **within the optimal range between 40% and 60% relative humidity**.

The latest studies also confirm that transmission of viruses through particulate matter (e.g. through coughing) is significantly reduced at levels above 40% relative humidity.




Zonenübersicht
Praxis Dr. Winter
Empfang 46%
Wartezimmer 51%
Behandlung 1 48%
System

APPLICATION AREAS

Air humidity is a central factor in many different areas for ensuring production stability, preservation of value, health and a feeling of well-being. As humidification, dehumidification and evaporative cooling must be appropriately configured according to each specific application, system planning and the selection of the right system and devices are of great importance.

Industry

Throughout various industries, the correct level of humidity is so important that it becomes an essential success factor. For example, due to electrostatic, efficient handling of paper in the printing industry depends heavily on the appropriate level of air humidity. Various production procedures in the pharmaceutical industry are only possible if the ambient air is correctly humidified. Waste heat from machines and procedural processes is neutralized through evaporative cooling.

Storage

Air humidity often ensures a consistent quality level of various goods in storage. The best example of this is fresh food, which remains crisp and attractive in storage and therefore marketable if circulating air is correctly humidified. Dehumidification is indispensable in many food production processes or in cold storage. Air humidity is just as crucial for the storage of textiles: Textile fibers require a certain amount of humidity, which simultaneously prevents charging with static electricity.

Data centers

Data quantities are steadily growing. At the same time the number of servers located in data centers worldwide is increasing and so is the demand for cooling capacity. The implementation of evaporative cooling is an ideal solution in this industry, as enough waste heat is generated to benefit from this technology.

Culture

Air humidity protects valuable cultural assets. Oil paintings in galleries and museums are extremely susceptible to dry air. Paint can crack if conditions are too dry, destroying magnificent works of art. The lacquer and wood of valuable musical instruments and precious antiques can also develop fissures under such conditions.

Offices

Air humidity plays a decisive role in the transmission of airborne viruses and our sense of well being. Correct moisture content in the air we breath prevents our mucous membranes from drying and reduces exposure to micro-organisms. Dry air can damage our skin, cause eye irritation and make us feel tired. Ultimately, managing office humidity will reduce absenteeism and maximize productivity.

Health care

Air humidity in the health care sector requires an especially high level of attention, for instance in hospitals, clinics, nursing homes or even fitness studios. On the one hand, it contributes significantly to recovering and maintaining health, on the other hand it supports a high level of performance.

Residential

The correct level of humidity in our homes protects our family's health, our possessions and the very fabric of the building. Moreover, it preserves the value of works of art, musical instruments or even costly hardwood flooring.

Hygiene
When correctly designed, installed and maintained, humidifiers can provide a lifetime of hygienic operation. However, getting it wrong can mean, at best, inefficient operation and, at worst, health and safety risks.

As a manufacturer, we design our products to be as hygienic as possible. This expertise also makes us the ideal partner for planning, installation and maintenance support.

RELIABLE TECHNOLOGIES

Vaporization

For air humidification through vaporization (isothermal humidification), water is heated to the boiling point, and thus transformed from a liquid to a vapor state. The great advantage of this process is that steam is sterile and free of germs. Moreover, vaporization is a humidification process that can be controlled most accurately, which is of key importance for various applications. The energy sources utilized to generate steam involve either electrical power (for electrode steam and resistive steam humidifiers) or gas (for gas-fired steam humidifiers).

Evaporation

For evaporation as an adiabatic principle, the energy required is obtained from ambient air. Water is conveyed over evaporator mats while air that simultaneously flows past these mats is enriched with moisture. The simple functional principle of evaporation has the major advantage that operating and investment costs for these humidification system are manageable.

Atomizing

Atomizing also works based on the adiabatic principle. Fine water droplets are released to the surrounding air using mechanical atomizers or nozzles. In addition to humidification, high-pressure air humidification systems can also be used for cooling purposes in areas where a lot of heat is generated.

Hybrid humidification

Hybrid humidification systems combine the advantages of both adiabatic processes (evaporation and atomizing) in a single system. Hybrid systems are characterized by a very high degree of efficiency and low energy consumption, which makes them attractive for use in large buildings.

Humidification and cooling

Surface evaporators using the latest technology are suitable for humidification and also for indirect evaporative cooling. This makes cooling especially energy-efficient so that conventional cooling units can be dimensioned smaller and operating costs lowered significantly.

Water treatment

A precondition for long-term, failure-free and hygienic operation of a humidification system is the quality of the water used. Consequently, it is important for the water treatment to work perfectly in line with the humidification system. With our range of water softeners, desalination systems and systems for complete water purification through reverse osmosis, we can provide solutions that meet all needs and requirements.

Dehumidification

The technology of our air dehumidifiers is based on the principles of condensation and adsorption. Suitable air dehumidification systems can be used wherever extremely low humidities are required, for example in industrial drying processes, for indoor swimming pools or at very low storage temperatures. Larger air dehumidification units, when configured correctly, can offer enormous potential in energy savings.

From top to bottom:

Vaporizer
Evaporator
Atomizer
Hybrid

HUMIDIFICATION AS PART OF A VENTILATION AND AIR-CONDITIONING SOLUTION

Condair DL in a ventilation and air-conditioning system

To achieve an optimal indoor climate, air humidification is an indispensable part of an overall ventilation and air-conditioning solution.

Modern buildings have airtight facades and are ventilated with ventilation and air-conditioning systems. Room temperatures vary only within a narrow range throughout the entire year. Therefore recommendations to achieve an optimal room climate should always take the overall climatic situation into consideration. Especially in an air handling unit (AHU), all four climate factors always work together: air temperature, air movement, air humidity, and heat and cold radiation.

Dry air jeopardizes health

When dry air coming from outside is heated during the cold season of the year, the relative humidity in interior spaces can fall below 30%. Consequently, the mucous membrane in the respiratory passages becomes dry, considerably increasing the risk of respiratory tract illness. Typical consequences are coughing, sniffles, bronchitis and even sinusitis.

Know-how as the basis for competent consulting

Condair offers its customers the very best in technical advice and support. The experience gathered across thousands of projects enables our experts to not only provide the correct product solution, but support clients with performance and ROI calculations, hygiene information, system design and other technical advice.

Comprehensive service portfolio and networked solutions

We foster close communication with all our direct market partners. We offer them specific training programs and support during commissioning. We also provide service and maintenance solutions for air humidification systems on request.
Our networked solutions also help to optimize energy and water consumption while improving the efficiency of service calls.

HUMIDIFICATION AS A DIRECT ROOM SOLUTION

Humidification in the paper industry

Humidification in retail business

Air humidification is vital to many industries and sectors to maintain efficient and profitable performance.

Direct room humidification solutions enhance productivity, improve storage quality, help preserve the value of cultural assets, or reduce absenteeism rates due to respiratory illnesses.

Application-specific solutions

We have the right solutions for all application areas and are therefore able to offer customized and precise air humidification with corresponding water treatment; serving for example the printing and paper industry, the textile industry, the wood processing industry, food storage and processing, the tobacco industry, call centers and office buildings.

Humidification in an automotive paint shop

Humidification in an office

Different technologies

Different direct room humidification technologies are available depending on the location, available infrastructure and application area. They include high-pressure nozzles, compressed air nozzles, rotary disk atomizers and our mobile air purifiers/evaporators.

Operational safety and hygiene

Any direct room air humidification system is only as reliable with regards to operation and hygiene as the service and maintenance concept behind it. Besides traditional services, we also offer a modular full-service-package. This ensures regular maintenance, including automatic semiannual exchange of our leased water treatment containers. This relieves customers of a significant responsibility and ensures they always have a system that is as good as new and incorporates the latest technology.

DIRECT AND INDIRECT EVAPORATIVE COOLING

Outdoor air cooling in Medina, Saudi Arabia

The need to cool outdoor air is continually growing in countries with a hot and dry climate. However, this cannot be cannot be economically achieved.

Our sample reference: Medina

The weather in Saudi-Arabia is hot and dry for almost the entire year, with temperatures in the sun often reaching 60 °C. The Saudi-Arabian city of Medina is home to one of the largest mosques in the world, which is visited by millions of people during the Muslim holidays. A total of 250 “air conditioning sun shades” have been installed on a square in front of the mosque to provide visitors with protection against against the intense heat of the sun and subsequent ill health.

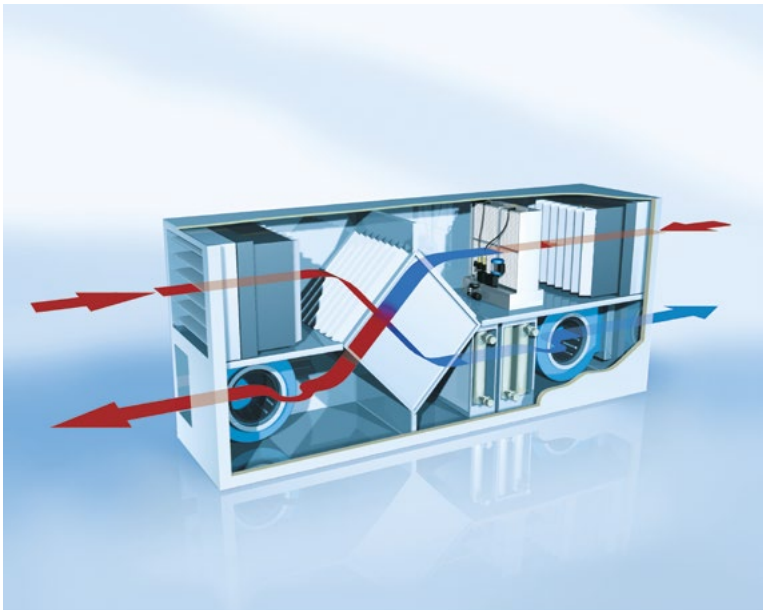
Diverse challenges

The demand for a very low noise level and the limited space available for installing the pump units proved to be the greatest challenges during implementation of the largest «outdoor air-conditioning system» in the world. Further difficulties which needed to be surmounted were the very high temperatures of up to 60°C and the associated hygienic requirements.

High output potential

When all 250 “climate shades” are in operation, about 50,000 liters of water can be atomized per hour. This creates a total evaporative cooling capacity of 34MW. on the 145000m^2 square and leads to a considerable temperature reduction of 10°C, which is very noticeable and enhances overall comfort.

Evaporative cooling in the Meta (Facebook) data center in Luleå, Sweden



Indirect evaporative cooling with Condair ME

The demand for alternative and energy-efficient solutions to replace traditional cooling systems is growing.

Our sample reference: Meta (Facebook) data center in Luleå, Sweden

In Luleå, Facebook operates three server buildings with a surface area of 28000 m^2 each.
The location in the colder northern Swedish region was chosen by Facebook because it alleviates the cooling of servers. The entire data center is operated using only renewable energy sources.

The adiabatic cooling system releases 13 000 liters of water into the air per hour to achieve a cooling capacity of 8840kW.

Simple principle

Evaporative cooling is based on the physical effect that warm, dry air cools down when it is humidified through water evaporation. The more water evaporates and is absorbed by the air, the more heat is needed for this process and the greater is the cooling effect.

Increasing demand for indirect evaporative cooling

Experience has shown that the power required to operate fans and generate an appropriate cooling capacity of air conditioning units to cool and dehumidify supply air has a major impact on operating costs. Hence, the concept of indirect evaporative cooling is increasingly utilized today to reduce the usage of conventional cooling technology and consequently to minimize its power consumption. Efficient heat recovery systems and the simultaneous operation of an evaporative cooler with mineral-free water add not only energy-related benefits, but also very attractive return on investment.

RESIDENTIAL AIR HUMIDIFICATION

Condair HumiLife

A dry desert climate with a relative humidity of 20% and lower is no exception in today's modern residential building, it is rather the rule.

With Condair HumiLife we offer professional air humidification for residential use.

Focusing on health and valuable assets

Scientific studies demonstrate that relative humidity from 40% to 60% is indispensable for protecting health. It is also essential for preserving valuable assets and home furnishings, such as musical instruments, paintings, sculptures, floor coverings and furniture. Condair HumiLife makes professional humidification solutions available to private homeowners for the first time.

Top hygiene standards and user convenience for residential applications

With Condair Humilife, the negative aspects of standard commercial mobile humidifiers – hygienic concerns, time-consuming cleaning, inconvenient refilling with water and tedious regulating – are finally a thing of the past.

With our patented solutions, only the very purest water vapor reaches the air for breathing. All cleaning and service work is taken care of by professionals as part of our proven service. Thanks to a direct water connection, there is no manual filling and with our Smart Home solution the desired relative humidity can always be controlled – even remotely.

Direct air humidification through humidifier spots

Condair HumiLife, a perfect room climate, two ways to the solution

The individual room solution for maximum requirements.

Even if no ventilation system is available, there is no reason to do without healthy air humidity. This innovative air humidification system can be integrated into both new and existing buildings elegantly and unobtrusively.

The core element of this system is the humidifier spots, which silently bring the humidification water into the room. The self-enclosed system fits into the architecture of rooms almost invisibly and makes it possible to adjust the relative humidity of each room. The app-based control ensures the ultimate in user convenience.

The efficient controlled residential ventilation solution, integrated into your residential ventilation.

The Condair HumiLife diffusion air humidification system can easily be integrated into controlled residential ventilation. Rooms are humidified through ventilation ducts with no additional distribution network for air humidification. Sensors in the air duct that are sensitive to temperature and moisture ensure precise humidification and automatic regulation.

AIR DEHUMIDIFICATION AND DRYING

Dehumidification in the pharmaceutical industry

Dehumidification in food processing

Controlling air humidity through dehumidification is vital in many industries to ensure high product quality, and maintain a healthy and hygienic environment.

Dehumidifiers are used whenever a specific humidity level is a required for a production or storage process. Maintaining the correct humidity can result in a more consistent product quality or a higher production yield. Dehumidification is also frequently used to protect a item, room or building from the damaging effects of high humidity, including mold and corrosion.

Application-specific solutions

For all application areas – for storage buildings and refrigerated warehouses, for water supply, in the pharmaceutical industry, the printing, paper and wood processing industry, for food processing and many others – we have the right solutions for precisely regulating and controlling the required relative humidity.

Dehumidification in storage buildings

Dehumidification in water supply

Condensing air dehumidifiers

Condensing air dehumidifiers of the Condair DC series operate on the basis of a cooling circuit and are generally used in applications requiring a relative humidity of 45% or more.

Adsorption dryers

Condair DA adsorption dryers are used wherever extremely low humidities are required, for example in industrial drying processes or at very low temperatures. They allow for safe operation of devices down to temperatures of –30°C while making it possible to achieve minimal humidity levels.

Energy-efficient

All Condair industrial dehumidifiers work according to the heat pump principle by which the heat given off by the heat pump circuit is used to full extent for space heating. This results in significant savings in operating costs. Compared to ventilation systems with inlet and exhaust air, operation is 60% more efficient.

Adsorption dryers can also be operated very economically if if energy sources available on site, such as steam or hot water, are used in the regenerative heating process.

Planning and service

A wide range of different options are available for air dehumidification. Condair supports consultants, contractors and end-users in system design, product selection and engineering support.

In case problems occur, Condair can be on site quickly with its efficient service organization and is also happy to be available for maintenance and commissioning of the dehumidifier.

OUR COMPLETE RANGE

Our comprehensive range of humidifiers and dehumidifiers enables us to provide the right solution for every application.

Isothermal humidification (vaporization)

Electrode steam humidifiers

Steam is easy thanks to simple and reliable design.

Resistance steam humidifiers

Easily remove scale with patented scale collector tank.

Gas-fired steam humidifiers

High capacity steam humidification with efficient condensing design.

Pressurized steam distribution systems

Absolutely airtight and precise thanks to rotary slide valves.

Atmospheric steam distributors

Wide range of steam lances for optimal in-duct humidification.

OEM consoles

The basic essentials or exactly what you need, thanks to flexible engineering.

Adiabatic humidification and evaporative cooling (evaporation and atomization)

Surface evaporators/ evaporative coolers

Provides low energy, in-duct humidification and high capacity cooling.

Hybrid humidifiers

HygienePlus silver ionization and ceramic re-evaporation for maximum hygienic requirements.

High-pressure nozzles

Efficient, precise and, thanks to flexible positioning, suitable for every type of building.

Compressed air nozzles

Low water consumption and robust operation makes this the ideal solution for industrial areas.

Rotary atomizers

The original form of water atomization thanks to our innovative force since 1948.

Mobile evaporators

The enhanced class of mobile humidifiers is used in museums around the world, to protect cultural assets.

HELP software

Our HELP software is an innovative web-based tool for fast and easy planning of humidification systems. It has various functions for planning and specifications and an online catalog for easy product selection.

Water treatment

Reverse osmosis systems

The ultimate solution for eliminating lime deposits and producing hygienically safe water thanks to consistent coordination with our humidification systems.

Air dehumidification and drying

Condensation air dehumidifiers

Energy-efficient dehumidification services from 75 – 930/24h thanks to the heat pump principle.

Adsorption dryers

Wide range of applications with dryer outputs from 0.6 – 182kg/h and many customizable options.

Full service rental systems

High-pressure nozzles

Reverse osmosis system

Efficient performance, 100 percent hygienic safety and reliability plus fixed calculable costs thanks to innovative Full Service rental systems for high-pressure nozzle and water treatment systems.

Residential humidification

Condair HumiLife

Integration into residential ventilation ensures maximum comfort at a low cost.

Condair HumiLife

Relative humidity can be controlled in each room individually thanks to innovative humidifier spots and app control.


delete
enter
return
shift
option
command


condair
condair
condair
M A 412

YOUR PARTNER FOR PERFECT RELATIVE HUMIDITY

Condair is the worldwide leading manufacturer and provider of complete solutions in air humidification, dehumidification and evaporative cooling with a comprehensive portfolio of products and services. Building on many years of experience and expertise, we ensure the ideal indoor climate with our solutions while keeping energy consumption low and reducing impact on the environment. This holistic approach will gain importance in the future. We are proud that we are already well equipped to embrace this challenge.

Service quality directly from the manufacturer

As global market leader, we continuously aim to exceed customer satisfaction through reliable and sustainable solutions.

With service provided by Condair, the manufacturer's expertise is delivered on-site. You benefit from an extensive portfolio of service products and spare parts as well as the know-how of service experts with over thirty years of experience.

Our Condair partners automatically archive the system and design data for every system that is delivered. Our service technicians can pull up this data via mobile software on site if they make a service call to get detailed information about the history of the system. Thanks to their competence in maintaining Condair systems and procuring spare parts, of course you are in best hands with the experienced employees of Condair partners.

They will be happy to assist you on-site with any maintenance, installation or commissioning work you may wish to carry out. And if you require a functional safety guarantee without having to maintain the system yourself, they can also offer this.

Your local Condair partner will provide you with a quote for individual maintenance of your system in accordance with the manufacturer's specifications at any time.

Advantages of service provided by Condair:

Qualified experts, fully experienced with all Condair products

Highest level of engineering knowledge direct from the manufacturer

Increased system reliability and optimum humidity control

Efficient and hygienic performance

Reduced energy consumption

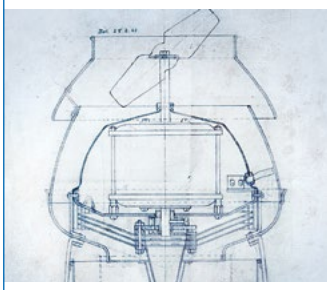
Ongoing expert advice and guidance

System features extended operational lifetime

COMPANY HISTORY

Condair looks back on more than 75 years of company history in commercial and industrial solutions.

2023	75th anniversary of Condair. Geographical expansion to South Korea (Condair Korea Ltd.) and Finland (Condair Oy)
2021	Focus on digitization with increasing networking of devices and cloud applications
2019	Geographical expansion to Poland with the founding of a joint venture, Condair Polska Sp. z o.o., and to Sweden with the establishment of a dedicated sales and service organization Condair AB
2018	Geographical expansion through the acquisition of Aireven Pty Ltd. in Australia – company name today is Condair Pty Ltd.
2017	Inauguration of the new Condair logistics and production site close to the Hamburg airport, which marks an important milestone in company history. Geographical expansion through the founding of joint venture Condair Nemlendirme A.S. in Turkey and in Mexico, Condair S.A.P.I.
2016	Geographical expansion to Italy through the acquisition of Lufta s.r.l.
2013-2015	Condair restructures itself. Condair transforms from an international group of autonomous companies to an integrated global enterprise with production sites in Europe, North America and Asia and 15 of its own sales organizations in Switzerland, Germany, Austria, France, Spain, Netherlands, Belgium, United Kingdom, Ireland, Denmark, Sweden, Hungary, Canada, United States of America and China
2014	Geographical expansion to the Netherlands and Belgium through the acquisition of Geveke Technology Solutions
2011	Geographical, technological and application expansion through the acquisition of JS Humidifiers in the United Kingdom and ML-System in Denmark
2001	Technological and application expansion through the acquisition of Draabe in Hamburg
1996	ISO-9001 certification Geographical expansion to China through the founding of joint venture Yadu-AxAir with sales and production site in Beijing
1995	Fusion of Defensor AG and Condair AG – the product portfolio now includes complete humidification technologies
1982	Geographical expansion in Canada/USA through the acquisition of Nortec
1975/ 81	Takeover of Defensor AG (1975) and Condair AG (1981) by WMH (today: Walter Meier AG, Schwerzenbach)
1958	Entry into the HVAC market (heating, ventilation and air conditioning) with electrode steam humidifiers developed and produced in-house
1955	The innovative use of our rotary atomizers enabled us to enter the humidification business
1948	Entry into the disinfection business through in-house development and production of rotary atomizers using the brand Defensor



Defensor rotary atomizer from 1948

2024

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