



## CONDAIR VITA POWER

Our high-pressure system for precise humidification.  
Efficient, hygienic and with high operational  
reliability for demanding applications.

Humidification, Dehumidification  
and Evaporative cooling



 **condair**

# THE ART OF HUMIDITY

Perfect humidity isn't just a technical detail – it's a decisive factor for the quality of your products, the health of your employees and the efficiency your processes. Condair Vita offers solutions that are precisely tailored to the needs of your company.

## **Precise room humidification**

Our systems create the ideal indoor climate for your application – precisely regulated, evenly distributed and flexibly adjustable. Thanks to our technical expertise and decades of experience, we guarantee solutions that work with pinpoint precision.

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## **Highest hygiene standards**

With stringent certifications<sup>1</sup> and state-of-the-art technology, Condair Vita sets the industry standard in hygiene for maximum sterility and safety.

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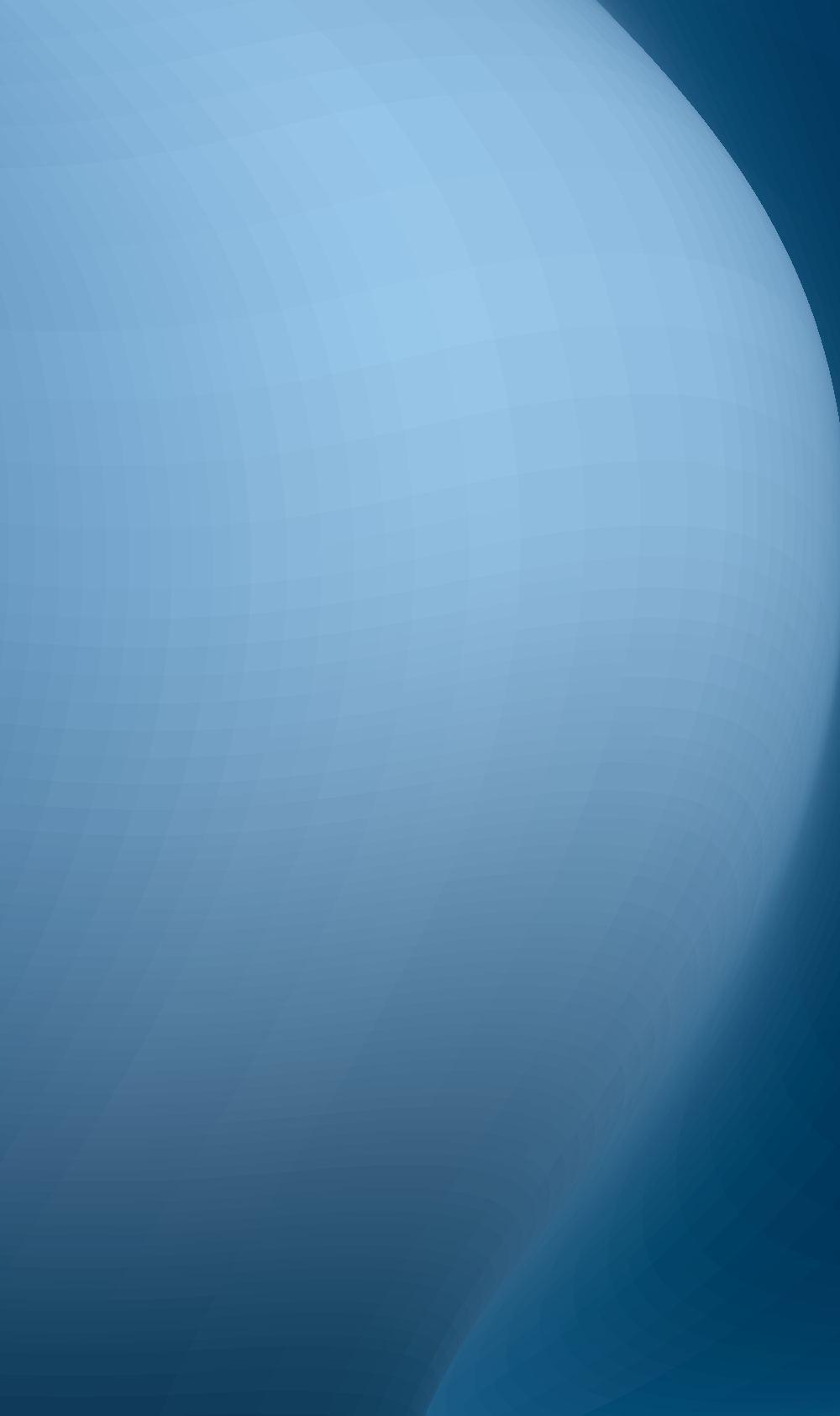
## **Improved operational efficiency**

Our solutions are designed for long-term profitability: high efficiency, premium components, intelligent system architecture and precise control enable trouble-free operation with minimal maintenance.

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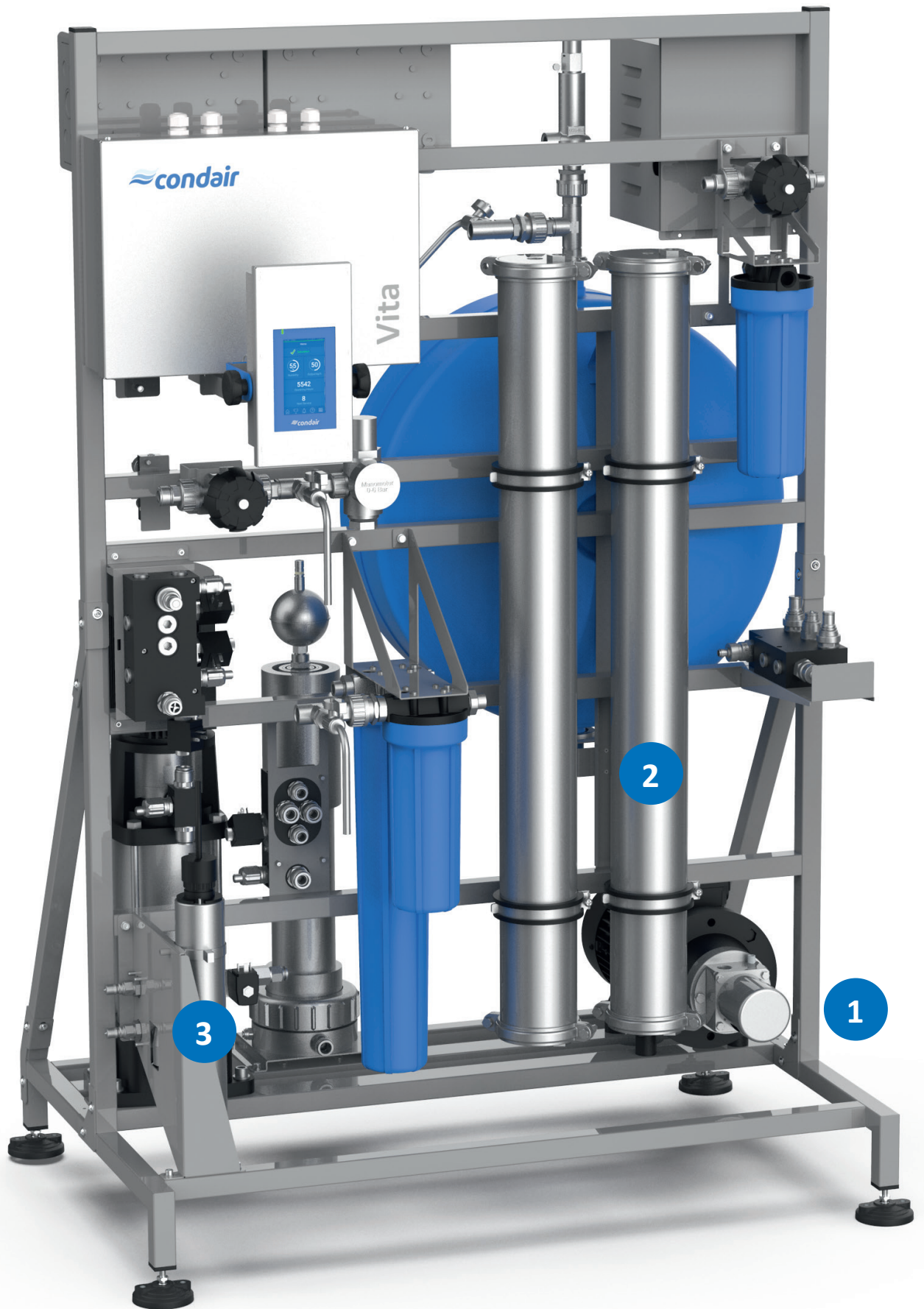
## **The art of humidity**

For over 75 years, we have been perfecting the art of humidification. Thanks to innovative technology, uncompromising hygiene and maximum reliability, you can get the most out of your processes.



<sup>1</sup>The Condair Vita Power high pressure system is available in various models for different applications and with three different capacities (100 l/h, 300 l/h and 500 l/h).

The validity and scope of the certification depend on the model variants, installation type and country-specific requirements. Your regional sales partner will be happy to advise you if you have any further questions.



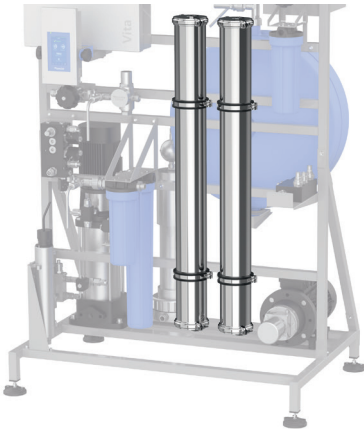
# WELCOME TO THE WORLD OF VITA POWER

Vita Power produces germ-free, demineralized water – individually tailored to the existing water values, the required humidity level and the desired water quality.



## High-pressure pump

The high-pressure pump (1) generates a pressure that transports the treated water to the high-pressure nozzles, which atomize it and send it into the room. The pump is extremely robust and reliable, with a service interval of 8,000 hours.



## Reverse osmosis unit

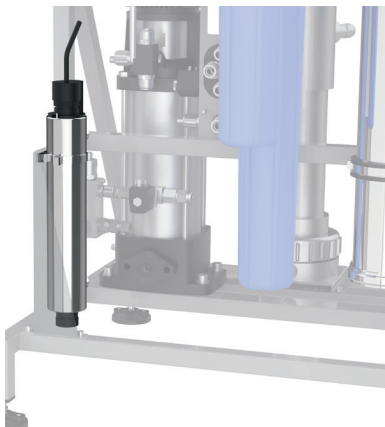
Through reverse osmosis (2), in which water molecules pass through a special membrane, the water is purified to become pure water. Almost all impurities such as salts, minerals, heavy metals, chemicals and microorganisms are effectively filtered out.



## Deionization unit

Ultra-pure water is produced from pure water (RO water) through ion exchange. All residual minerals as well as silicates are filtered out.

In order to make it possible to atomize the ultra-pure water, the very low conductivity of the water must be compensated with CO<sub>2</sub>. This step is especially necessary for highly sensitive applications such as clean rooms, electronics production and offices.



## UV reactor

In the final step, UV irradiation (3) guarantees complete and permanent sterilization of the inlet water. The high-pressure pump then provides a hydraulic water supply, which ensures fine misting throughout the room.

## TELL US ABOUT YOUR INDIVIDUAL NEEDS

Vita Power adapts to your environment – not the other way around. Thanks to modular architecture, various capacity levels and intelligent control technology, each system can be tailored precisely to your processes, requirements and the available space.

### Select ...

#### **... the desired humidification capacity**

The system can be flexibly expanded and is also suitable for particularly large humidification volumes – be it 100, 300 or 500 liters per hour.

#### **... the right water treatment**

Whether you want to use drinking water or existing process water – we will design a system that meets your exact requirements and delivers high-purity water for air humidification in a cost-efficient way.

#### **... the optimal spray heads and nozzle sizes**

Our solutions are always planned and implemented according to customer specifications. The extensive portfolio of nozzle sizes and spray heads offers the ideal spray head for every area and every application.





## BMS systems and IoT platforms

Vita Power supports the most common BMS systems and offers a state-of-the-art IoT platform with Condair Cloud. For maximum control, remote monitoring and integration into your existing building control system.



# FOR LARGE INDUSTRIAL PLANTS AND DEMANDING MANUFACTURING PROCESSES

Vita Power is the scalable high-pressure system for industrial applications with high demands. DGUV-certified<sup>1</sup>, easy to maintain and designed for reliable continuous operation with minimum downtime.

## Vita Power stands for:

### Efficiency and reliability

- Vita Power uses frequency-controlled high-pressure pumps and a precise distribution system to minimize energy consumption (making it up to 90% more efficient).
- High-quality components ensure consistently precise humidification, which in turn ensures process stability and product quality.
- And thanks to first-class service and preventive maintenance, your system will remain efficient and trouble-free for years to come.

### Stability and durability

- Specially developed for industrial environments, Vita Power boasts a robust design and long service life.
- The oil-free pumps with an 8,000-hour guarantee and reverse osmosis ensure reliable operation – even under continuous load.
- You can rely on your investment to deliver maximum performance year after year and pay off in the long term.

### Process safety and occupational safety

- The DGUV-certified system<sup>1</sup> with microbiological filtration and integrated UV sterilization guarantees fresh and hygienic water.
- Cutting-edge technology prevents legionella and other microorganisms, ensuring the necessary safety for your application.
- The stabilized humidity prevents static build-up, which ensures consistent production quality while also increasing employee safety.

### Individuality and scalability

- Vita Power stands for optimum scalability and is available in capacities up to 500 l/h.
- The modular system allows precise adaptation to your individual needs.
- Thanks to compatibility with BMS and IoT platforms, operation can be monitored and controlled efficiently.

## Vita Power at a glance

- Robust and powerful
- High-quality components
- DGUV-certified<sup>1</sup> hygiene
- Individual scalability
- High efficiency and reliability

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# HIGH STANDARDS– NOT JUST FOR FOR HUMIDIFICATION

Choosing the right spray heads is crucial for perfect humidification. The **Vita Sky Spray heads** ensure the ideal humidification performance while minimizing water consumption.



## Condair Vita Sky S Stylish and quiet for the best air quality

The innovative high-pressure spray head system, which was specially developed for offices, medical practices and applications requiring small quantities – for very quiet and micro-fine misting.

**Capacity**  
Up to 1.5 liters per hour

- Technical information**
- One nozzle
  - Suitable for ring line
  - 24 V supply voltage
  - With high-quality ceiling mounting on request

**Application examples**  
Offices, medical practices, museums, laboratories

## Condair Vita Sky M More power in offices and industry

The versatile and powerful high-pressure spray head system that ensures a perfect climate in offices and industrial environments. With its flexible mounting options and the choice of nozzle types, the system can be precisely adapted to your needs.

**Capacity**  
Up to 5 liters per hour

- Technical information**
- Up to two nozzles
  - Compatible with ring and string line
  - 24 V supply voltage
  - With high-quality ceiling mounting on request

**Application examples**  
Print shops, packaging industry, electronics industry, offices

## Condair Vita Sky T Double the power for industrial applications

The most powerful of the Vita Sky spray heads ensures an even higher humidification capacity in demanding environments. The system combines two Sky-M spray heads to ensure optimized humidity in industrial plants. Thanks to its compact design and flexible mounting options, it can be easily adapted to your requirements.

**Capacity**  
Up to 10 liters per hour

- Technical information**
- Two Sky-M spray heads
  - Compact with up to two nozzles
  - Compatible with ring and string line
  - 24 V supply voltage
  - With high-quality ceiling mounting on request

**Application examples**  
Print shops, packaging industry, electronics

# NOZZLE AND MOUNTING OPTIONS FOR VITA SKY

Condair Vita Sky M and Vita Sky T are also available with 2 nozzles.



Simple ceiling mounting



Premium ceiling mounting



Wall mounting (for Vita Sky T or two heads)



Simple wall mounting (for one head)



Vita Sky M1



Vita Sky M2 (two nozzles)

# ADDITIONAL SPRAY HEADS TO MEET EVERY REQUIREMENT

Do you have large industrial halls or particularly small rooms that need humidifying? No problem! Our range of Vita spray heads covers capacities from a whisper-quiet 0.9 liters/hour to an impressive 52 liters/hour. Together, we will find the perfect solution.



## Condair Vita Space Maximum capacity for industrial applications

Impressive capacity and robust construction for maximum performance. Flexible mounting on walls or ceilings allows easy integration into existing production facilities.

**Capacity**  
Up to 52 liters per hour

**Technical information**

- Up to 8 nozzles
- String line
- Wall and ceiling mounting

**Application examples**  
Print shops, paper and packaging industry, electronics, automotive industry, aviation

## Condair Vita Stream Powerful performance for large spaces

The ideal solution for medium-sized high-tech production plants. Features high performance and flexible mounting options.

**Capacity**  
Up to 36 liters per hour

**Technical information**

- 8 nozzles
- Compatible with ring and string lines
- 120 V or 230 V supply voltage
- Ceiling mounting with chains or ropes

**Application examples**  
Print shops, paper and packaging industry, electronics, automotive industry, aviation

## Condair Vita Line Strong and sturdy

Stands up to the challenge even in difficult and harsh environments. Thanks to the ability to expand the number of nozzles without limitation, the system can be perfectly adapted to the requirements of high-bay warehouses and very dusty environments, for example.

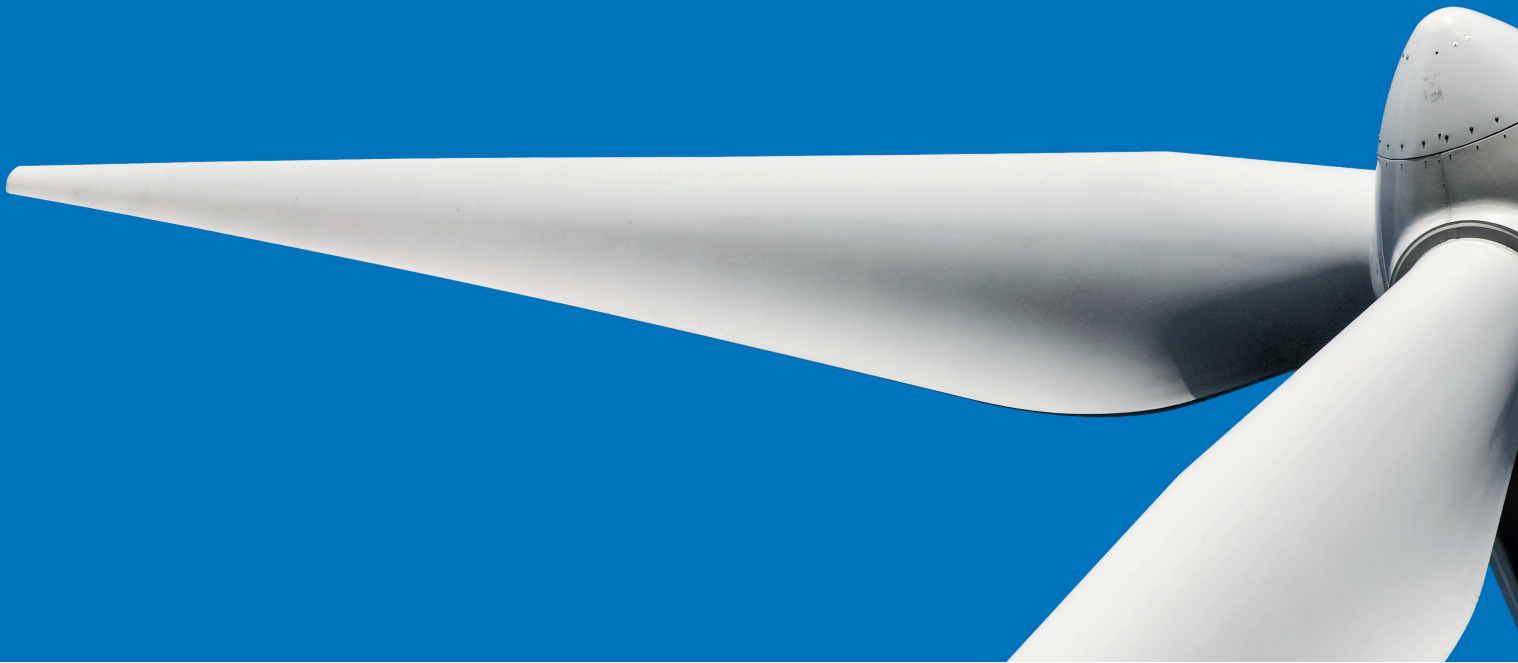
**Capacity**  
Flexible, depending on requirements

**Technical information**

- Unlimited number of nozzles can be added
- Wall or ceiling mounting
- Customer-specific configuration for plenum spaces

**Application examples**  
High-bay warehouses, dusty environments, plenum spaces





## PUT YOUR TRUST IN PRECISE, STABLE PROCESSES AND SAFE STANDARDS

Whether in print shops, in the electronics industry or in food processing – with Vita Power you can create the ideal conditions for quality, hygiene and process reliability. The scalable system with on-site service adapts to your needs – reliable, certified<sup>1</sup> and cost-effective to operate.



For everything that matters to you:

### **Paper, printing and packaging industry**

Reduced paper deformation, consistent print quality and higher production speeds thanks to optimum humidity.

### **Electronics and semiconductor industry**

Reliable humidification protects against static electricity and improves the manufacturing quality of sensitive components.

### **Food industry**

Hygienic conditions and precise humidity control to comply with standards and protect product quality.

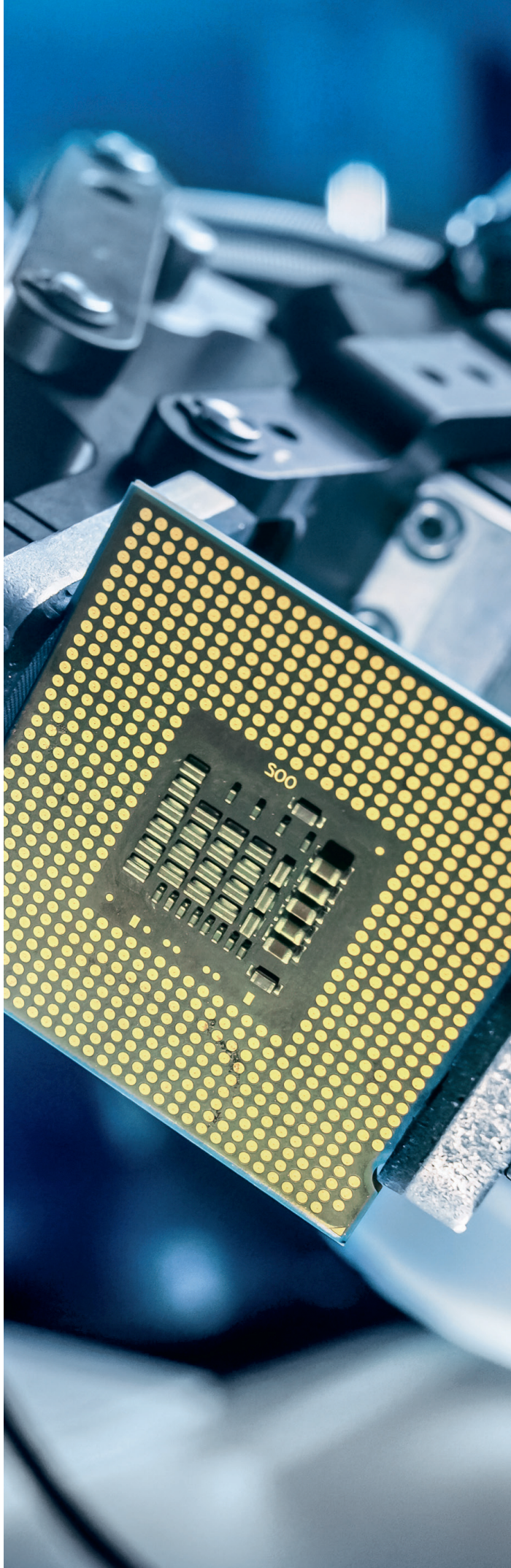
### **Automotive industry and aviation**

Stable humidity in production maximizes process reliability and quality for vehicle and aircraft components.

### **Wind power**

Precise humidity prevents dangerous static charges and creates safe conditions for constant production.





## The benefits at a glance

- Higher manufacturing quality
- Greater process stability
- Improved product quality
- First-class service
- Cost-efficient maintenance

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condair

HERTHA  
11 11 X  
100% Kevlar  
100% Polyester  
100% Cotton  
100% Nylon  
100% Spandex

# SERVICE, CONTROL AND MONITORING

Our first-class service includes regular maintenance and precise hygiene tests, while Condair Cloud guarantees maximum control and predictability for our systems – anytime, anywhere.

## Service and maintenance

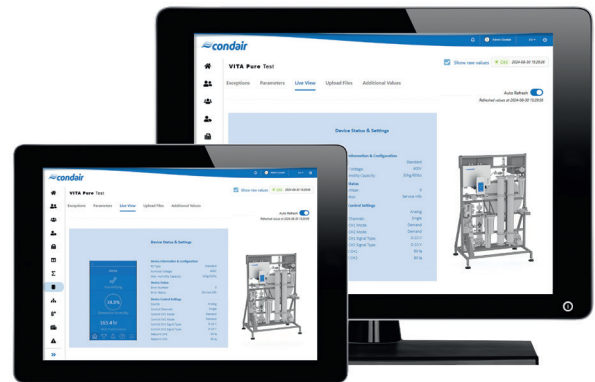
With predictable service intervals, the use of original wear parts and preventive maintenance measures, we ensure consistently high plant availability – even under the most demanding industrial conditions.

## Monitoring, control and analysis

Thanks to BMS and Condair Cloud, operating data is always available, maintenance work can be planned and hygiene standards can be monitored digitally. This allows anomalies to be detected at an early stage and service call-outs to be planned efficiently. In addition, the system can be conveniently controlled via the Condair Connect app and provides an overview of current values and messages—no matter where you are.

## Hygiene and safety

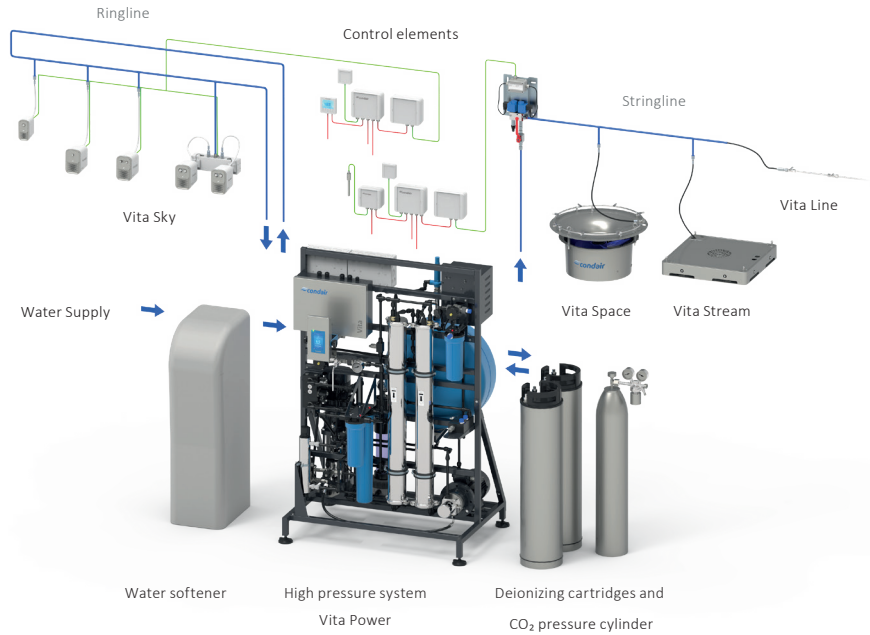
It goes without saying that all services satisfy the most stringent hygiene and safety standards – certified according to DGUV, CE, IE3, PED, HACCP and UL<sup>1</sup>.



## Choose your service package:

| Service package                          | Plus | Professional | Premium |
|--|------|--------------|---------|
| On-site system and equipment maintenance | ✓    | ✓            | ✓       |
| Remote monitoring                        | ✓    | ✓            | ✓       |
| Service for repairs and troubleshooting  |      | ✓            | ✓       |
| Spare parts and consumables              |      |              | ✓       |

# TECHNICAL DATA



## Vita Power in your company

- High-pressure system for demanding requirements
- Greater process stability and occupational safety
- Individual scalability and maximum control
- DGUV-certified hygiene<sup>1</sup>
- The perfect spray heads for every application

<sup>1</sup>The Condair Vita Power high pressure system is available in various models for different applications and with three different capacities (100 l/h, 300 l/h and 500 l/h).

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### Available models:

RO-DI-CO-UV-HP  
RO-UV-HP  
UV-HP

### Water treatment units:

RO = Reverse osmosis unit  
DI = Deionization unit  
CO2 = CO<sub>2</sub> unit  
UV = UV reactor  
HP = high pressure unit

| Technical details          | Vita Power 100 l/h                                      | Vita Power 300 l/h                                 | Vita Power 500 l/h                                 |
|----------------------------|---|--|--|
| Max. hydr. power           | 100 l/h   | 300 l/h  | 500 l/h  |
| Permissible input pressure | 2.5-4 bar   |  |  |
| Operating pressure         | RO-DI-CO-UV-HP / RO-UV-HP / UV-HP<br>50-70 bar          |  |  |
| Dimensions (H x W x D)     | RO-DI-CO-UV-HP  |  |  |
|                            | 1620 x 950 x 750 mm                                     | 1620 x 1100 x 750 mm                               | 1620 x 1100 x 750 mm                               |
|                            | RO-UV-HP  |  |  |
|                            | 1620 x 750 x 750 mm                                     | 1620 x 950 x 750 mm                                | 1620 x 950 x 750 mm                                |
|                            | UV-HP<br>1300 x 550 x 750 mm                            |  |  |
| Operating voltage          | 400 V / 3PH / 50 Hz for CE / 208 V / 3PH / 60 Hz for UL |  |  |
| Electrical output          | RO-DI-CO-UV-HP / RO-UV-HP                               |  |  |
|                            | 1480 VA / 2.1 A (400 V)<br>1480 VA / 4.1 A (208 V)      | 2610 VA / 3.8 A (400 V)<br>2610 VA / 7.2 A (208 V) | 2960 VA / 4.3 A (400 V)<br>2960 VA / 8.2 A (208 V) |
|                            | UV-HP   |  |  |
|                            | 1100 VA / 1.6 A (400 V)<br>1100 VA / 3.1 A (208 V)      | 1860 VA / 2.7 A (400 V)<br>1860 VA / 5.2 A (208 V) | 1860 VA / 2.7 A (400 V)<br>1860 VA / 5.2 A (208 V) |
| Sound pressure level       | RO-DI-CO-UV-HP / RO-UV-HP / UV-HP<br>74 dB (A)          |  |  |
| Weight (guide values)      | RO-DI-CO-UV-HP  |  |  |
|                            | 215 kg  | 280 kg   | 280 kg   |
|                            | RO-UV-HP  |  |  |
|                            | 145 kg  | 210 kg   | 210 kg   |
|                            | UV-HP   |  |  |
|                            | 85 kg   | 90 kg  | 90 kg  |



## ANY QUESTIONS?

Please contact us at any time if you require further information.

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