



CONDAIR VITA POWER

High-pressure system for precise humidification.
Efficient, hygienic and reliable in demanding
environments.



Humidification, Dehumidification
and Evaporative Cooling



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 of 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 certifications¹ and state-of-the-art technology, Condair Vita sets the industry standard for hygiene, ensuring 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.

¹The Condair Vita Power high-pressure system is available in various models for different applications and with three different capacities (220, 660, or 1100 lbs/h or 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 hygienically safe, 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 CO₂. 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.

The desired humidification capacity
The system can be flexibly expanded and is also suitable for particularly large humidification volumes – be it 220, 660, or 1100 lbs/hr (100, 300 or 500 l/hr).

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

Vita Power supports the most common BMS systems 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-certified¹, 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 system¹ 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 1100 lbs/hr (500 l/hr).
- The modular system allows precise adaptation to your individual needs.
- Thanks to compatibility with BMS, operation can be monitored and controlled efficiently.

Vita Power at a glance

- Robust and powerful
- High-quality components
- DGUV-certified¹ hygiene
- Individual scalability
- High efficiency and reliability

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HIGH STANDARDS– NOT JUST FOR HUMIDIFICATION

Choosing the right spray heads is crucial for perfect humidification. 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 low humidification capacities – for very quiet and micro-fine misting.

Capacity
Up to 3.3 lbs/hr (1.5 l/hr)

- 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 11 lbs/hr (5 l/hr)

- 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 22 lbs/hr (10 l/hr)

- 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.



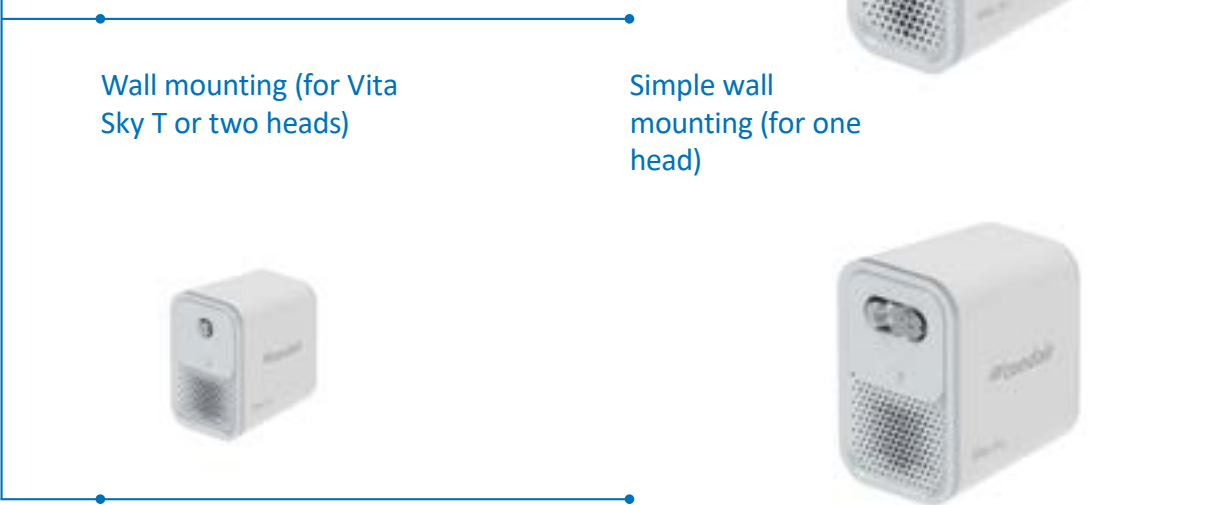
Simple ceiling mounting

Premium ceiling mounting



Wall mounting (for Vita Sky T or two heads)

Simple wall mounting (for one head)



Vita Sky 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 2 lbs/hr (0.9 liters/hr) to an impressive 115 lbs/hr (52 l/hr). 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 115 lbs/hr (52 l/h)

- 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 72 lbs/hr (36 l/h)

- 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, certified¹ and cost-effective to operate.

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

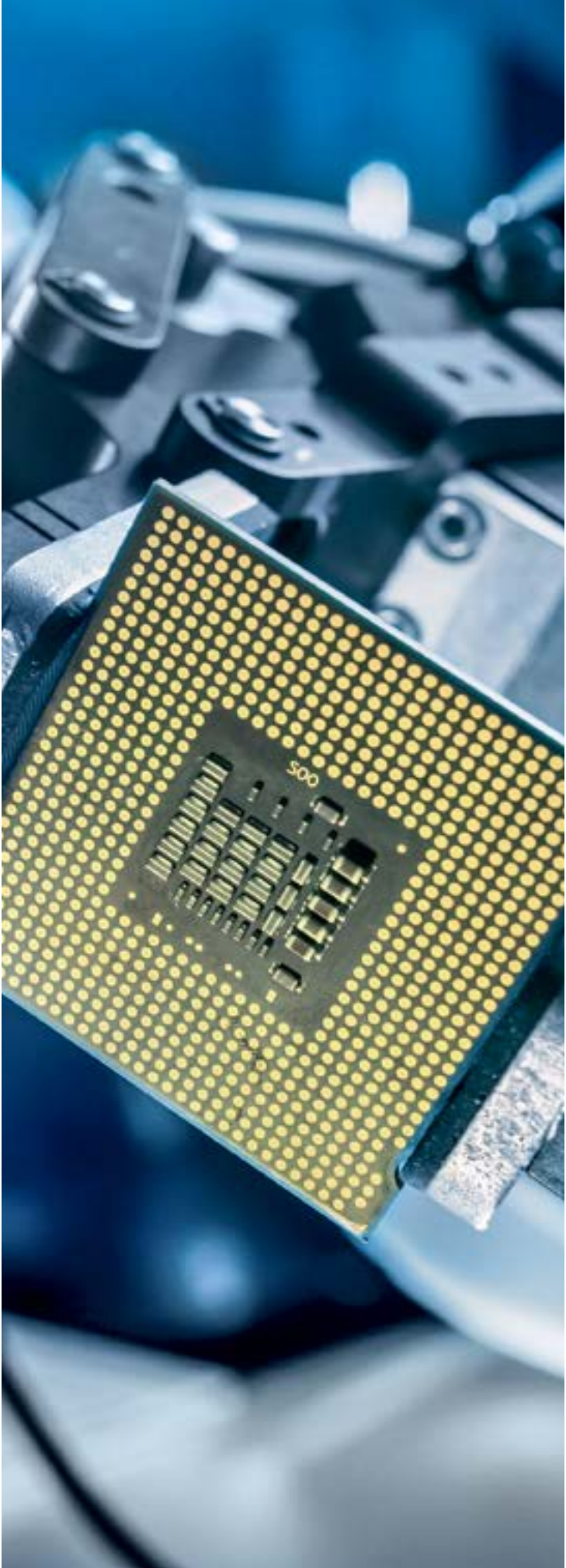
Hygienic conditions and precise humidity control to comply with standards and protect product quality.

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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Vita Power in your company

- High-pressure system for demanding requirements
- Greater process stability and occupational safety
- Individual scalability and maximum control
- DGUV-certified hygiene¹
- The perfect spray heads for every application

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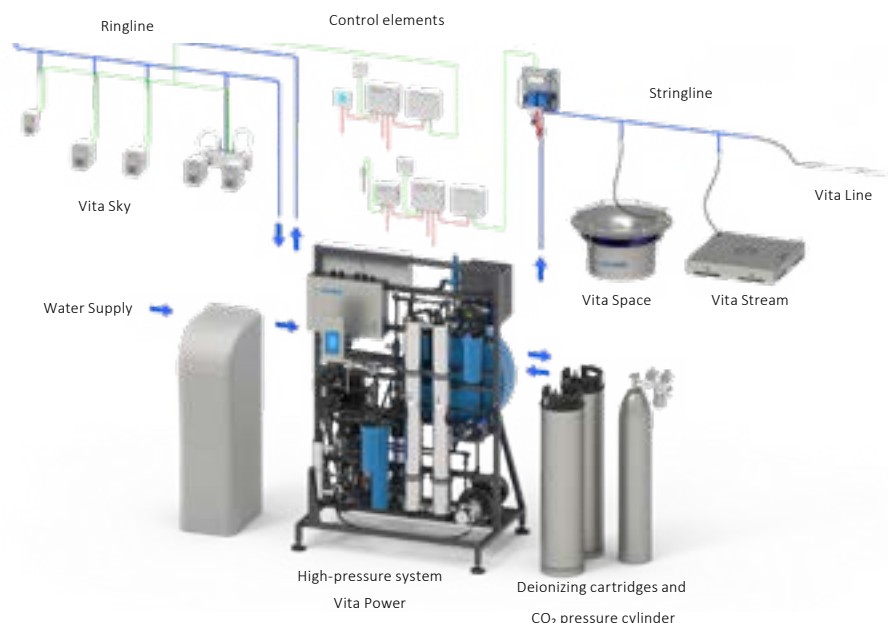
Available models:

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

Water treatment units:

RO = Reverse osmosis unit
DI = Deionization unit
CO₂ = CO₂ unit
UV = UV reactor
HP = high-pressure unit

TECHNICAL DATA



Technical details	Vita Power 220 lbs/hr (100 l/hr)	Vita Power 660 lbs/hr (300 l/hr)	Vita Power 1100 lbs/hr (500 l/hr)
Max. hydr. power	220 lbs/hr (100 l/hr)	660 lbs/hr (300 l/hr)	1100 lbs/hr (500 l/hr)
Permissible input pressure	36-58 psi (2.5-4 bar)		
Operating pressure	RO-DI-CO-UV-HP / RO-UV-HP / UV-HP 725-1015 psi (50-70 bar)		
Dimensions (H x W x D)	RO-DI-CO-UV-HP		
	60x30x30 in (1620 x 750 x 750 mm)	64x 37x30 in (1620 x 950 x 750 mm)	64x37x30 in (1620 x 950 x 750 mm)
	RO-UV-HP		
	60x30x30 in (1620 x 750 x 750 mm)	64x 37x30 in (1620 x 950 x 750 mm)	64x 37x30 in (1620 x 950 x 750 mm)
	UV-HP		
	51x21x30 in (1300 x 550 x 750 mm)		
Operating voltage	208 V / 3PH / 60 Hz for UL		
Electrical output	RO-DI-CO-UV-HP / RO-UV-HP		
	1480 VA / 4.1 A (208 V)	2610 VA / 7.2 A (208 V)	2960 VA / 8.2 A (208 V)
	UV-HP		
	1100 VA / 3.1 A (208 V)	1860 VA / 5.2 A (208 V)	1860 VA / 5.2 A (208 V)
Sound pressure level	RO-DI-CO-UV-HP / RO-UV-HP / UV-HP 74 dB (A)		