EVAPACK® SERIES

HYGIENIC EVAPORATIVE HUMIDIFICATION AND COOLING

Armstrong®

EXPERIENCE MATTERS™

EVAPACK® EVAPORATIVE HUMIDIFICATION AND COOLING

YOUR ULTIMATE SOLUTION FOR HYGIENIC AND CONTROLLED EVAPORATION

Armstrong International's high-efficiency, evaporative media humidifier is an adiabatic solution that offers hygienic and controlled evaporation for reliable, trouble-free humidity control and cooling. EvaPack® delivers leading-edge energy savings, simplified maintenance, scalability, and it can be customized to meet your needs.

WHAT MAKES EVAPACK® DIFFERENT?

The hygiene and controllability of EvaPack® is due to the unique construction of the evaporative media and cassette. During assembly of the cassette, individual sheets of media are compressed. This eliminates the need for glues or adhesives, resulting in longer-lasting media and allowing for evaporation from the surface of the media using Reverse Osmosis or Deionized water, up to and including 18Mohm ultra high purity.

PRECISE CONTROL

- The vertical media sections can be partially wetted, or loaded, with the specific amount of water necessary to accurately deliver the rate of evaporation needed to meet humidification demands at any given time. This efficient use of water also makes EvaPack® a great steward of water resources.

HYGIENIC

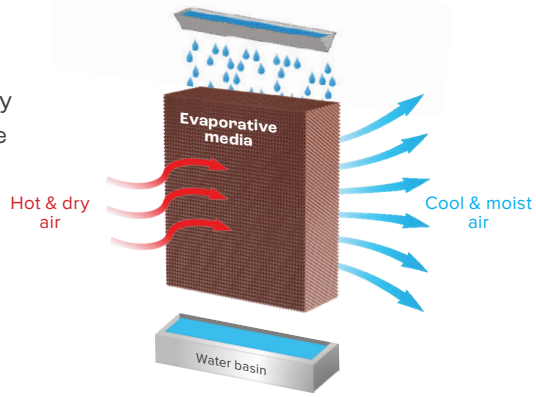
- EvaPack® is engineered for efficient moisture evaporation across all surfaces. Its media fibers incorporate silver zeolite for antimicrobial protection. Both RW and DW models are certified hygienic, having successfully passed testing under ISO 846 and VDI 6022 standards. These certifications confirm its suitability for use in critical environments where cleanliness and microbial resistance are essential.

THE ADIABATIC PROCESS IS NATURAL, HYGIENIC AND EXTREMELY EFFICIENT

EvaPack® utilizes the natural adiabatic principle - dry air passes through the wetted media, using sensible air heat to evaporate the water, which cools and humidifies the air.

The unique EvaPack® media consists of corrugated sheets of non-organic fibers, in a specific geometry which maximizes the product's surface area and creates better air flow, maximizing efficiency.

EVAPORATIVE HUMIDIFICATION & COOLING (RW Model)



THE EVAPACK® EVAPORATIVE MEDIA IS UNIQUE

- Inorganic media is made of compacted fiberglass sheets
- Hygienic - Silver zeolite (concentration <0.1% – silver/total material weight) is an integral part of EvaPack® media fibers, offering protection against microorganisms
- No glue or adhesives in the media means EvaPack® can accommodate RO/DI water
- Longer service life, up to 12 years when used with ultra high purity water
- Compatible with all water types: RO, DI, potable and softened
- The specific geometry of the media promotes better air flow and increases surface area, minimizing fan horsepower requirements, improving evaporation efficiency, and resulting in the lowest air pressure drop among evaporative media humidifiers
- No loss of rigidity over time

EVAPACK® OFFERS ADVANTAGES NO OTHER ADIABATIC SOLUTION CAN

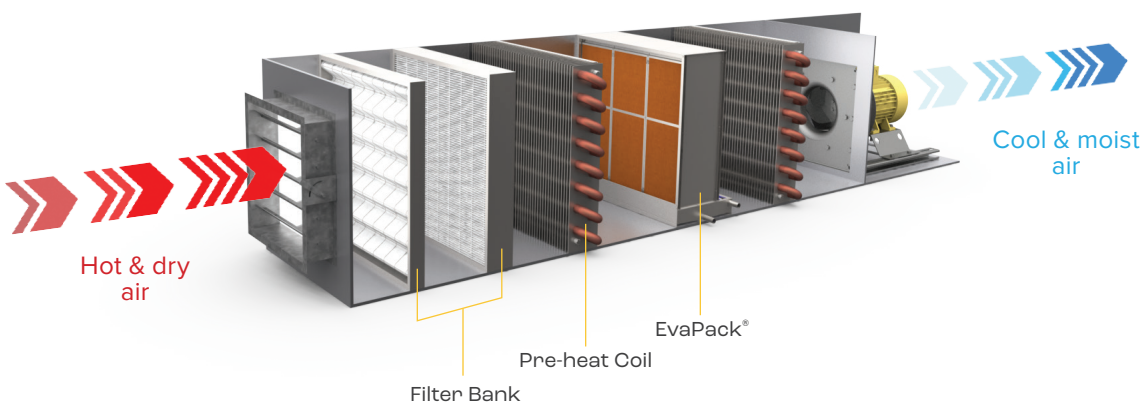
- Best-in-class evaporation efficiency: Large contact area delivers optimum performance, making it the perfect choice to meet the European ErP 2018 Ecodesign Directive.
- Best-in-class energy savings featuring the lowest pressure drop on the market.
- Perfectly suited for use with RO/DI water up to and including 18MΩ/cm or 0.055 µS/cm; offers precise evaporation control from 0 to 100% and minimizes water loss for optimum use of resources.
- EvaPack® features long-lasting media (up to 12 years when used with ultra high purity water) housed in removable cassettes, accessible from the side or front of the unit or air handler for easy annual maintenance.
- Ideal for critical environments—Certifications: VDI 6022, RoHS 2011/65/UE (2002/95/CE) directive, ISO 846 and no fiber loss in air.
- Full scalability—Built to your size requirements.

CERTIFICATIONS

ILH BERLIN INSTITUT FÜR LUFHYGIENE · SGS · Applus+ · SP · RoHS Compliant · afaq ISO 9001 Qualité AFNOR CERTIFICATION · afaq ISO 14001 Environnement AFNOR CERTIFICATION

TYPICAL AIR HANDLER INSTALLATION

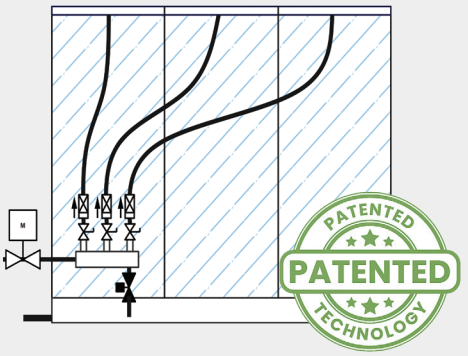
The Evapack® installs in most preexisting humidification sections. It requires only 24in/60.96cm of AHU length and can be custom sized to fit width and height. Typical installation is after the preheat coil and filter bank with a minimum of MERV 8 filter.



THE RIGHT EVAPACK® MODEL FOR YOUR USE

EVAPACK®
DIRECT WATER (DW)

FOR USE WITH RO WATER/DI WATER ONLY



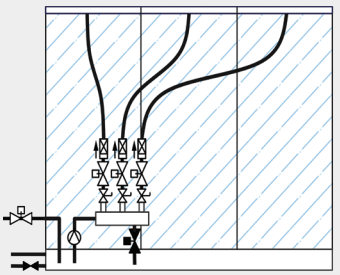
- Our recommended solution
- Patented cleaning and controlled evaporation system available
- The water supplied is evaporated

PROPORTIONAL CONTROL

Proportional control refers to controlled evaporation with humidity ratio control accuracy up to 1.4 gr/lb of dry air. This approach enables a significant reduction in water consumption, which is particularly important at a time when responsible management of water resources is a major priority.

EVAPACK®
RECIRCULATED WATER (RW)

FOR USE WITH TAP/ SOFTENED WATER



- Additional water goes in the basin and is recirculated while its conductivity is still acceptable.
- When conductivity is too high, it is drained and renewed.

EVAPACK® SELECTION

MODEL SELECTION BY WATER TYPE

WATER SUPPLY	Tap / Softened	RO	DI (up to 18MΩ)
CONFIGURATION	RW or DW	DW	DW
CONTROL	On / Off or Staging	Proportional	Proportional
AHU	Process airflow & internal dimensions of the AHU section (WxH)		
AIR CONDITIONS	Inlet air & Requested outlet air conditions (temperature & humidity)		
APPLICATION	Cooling or humidification		
MEDIA LIFE	Water quality dependent up to 2 years	Up to 8 years*	Up to 12 years*

*Annual inspection and rinsing is required if scale deposits are present.

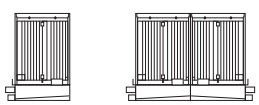
MODEL NUMBER

EVA - x -	A / D	xx	R / L	DW / RW	xxxx	xxxx	xxx	0 / 1

Drain position
1: side drain (R/L) - VDI 6022
2: bottom drain
3: front drain

Installation
A: for air handling unit
D: for air duct (flanged)

Modular configuration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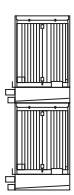
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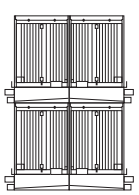
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Droplet separator
0: without droplet separator
1: with droplet separator

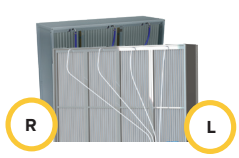
Pad thickness
in mm

Height
in mm

Width
in mm

Water configuration
DW: direct water distribution
RW: water recirculation

Commissioning position
R : right or L : left



EXPERIENCE MAKES A WORLD OF DIFFERENCE

Armstrong International has a unique heritage of experience, knowledge and insight in thermal utilities management reaching back 125 years. Often the first to market, our company has been granted more than 70 patents on exceptional equipment, technology and software. We are uniquely skilled in designing and manufacturing leading-edge solutions that successfully improve efficiency and lower environmental emissions for companies of all sizes.

BRINGING NET ZERO WITHIN REACH

As your thermal utility partner, Armstrong can help you minimize energy use, optimize your system, and decarbonize your facility's primary energy sources more seamlessly than anyone in the world. We'll meet you at your point of need with a pragmatic, tailor-made plan of action designed to help you increase sustainability and move closer to your net-zero goal.

CONTACT ARMSTRONG

For more information about EvaPack® or to find your Armstrong representative, visit **armstrong**international.com.

INTELLIGENT THERMAL UTILITIES SOLUTIONS FROM A GLOBAL LEADER IN ENERGY MANAGEMENT AND ENJOYABLE EXPERIENCES

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