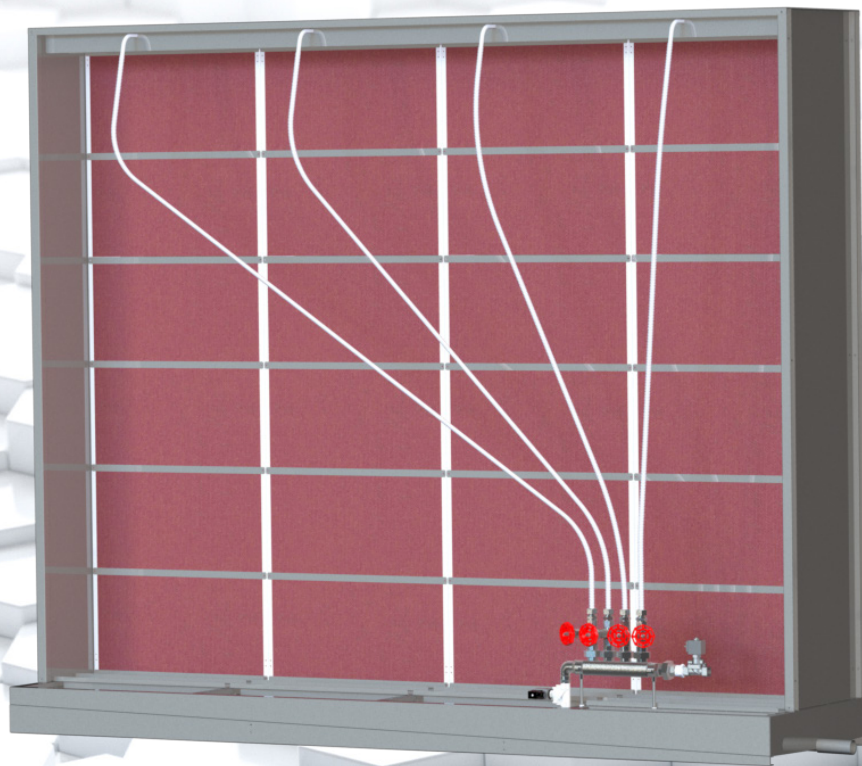




# EvaPack™ Series

**HYGIENIC & CONTROLLED  
EVAPORATION**



**BOOST YOUR ENERGY SAVINGS WITH OUR  
HUMIDIFICATION AND ADIABATIC COOLING SYSTEMS**

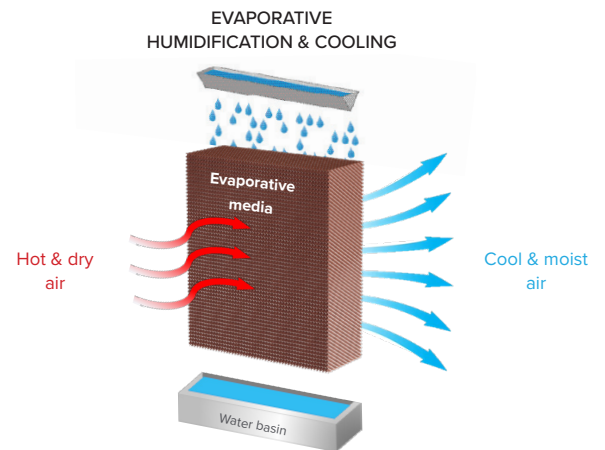


# INTRODUCTION

## ADIABATIC PRINCIPLE

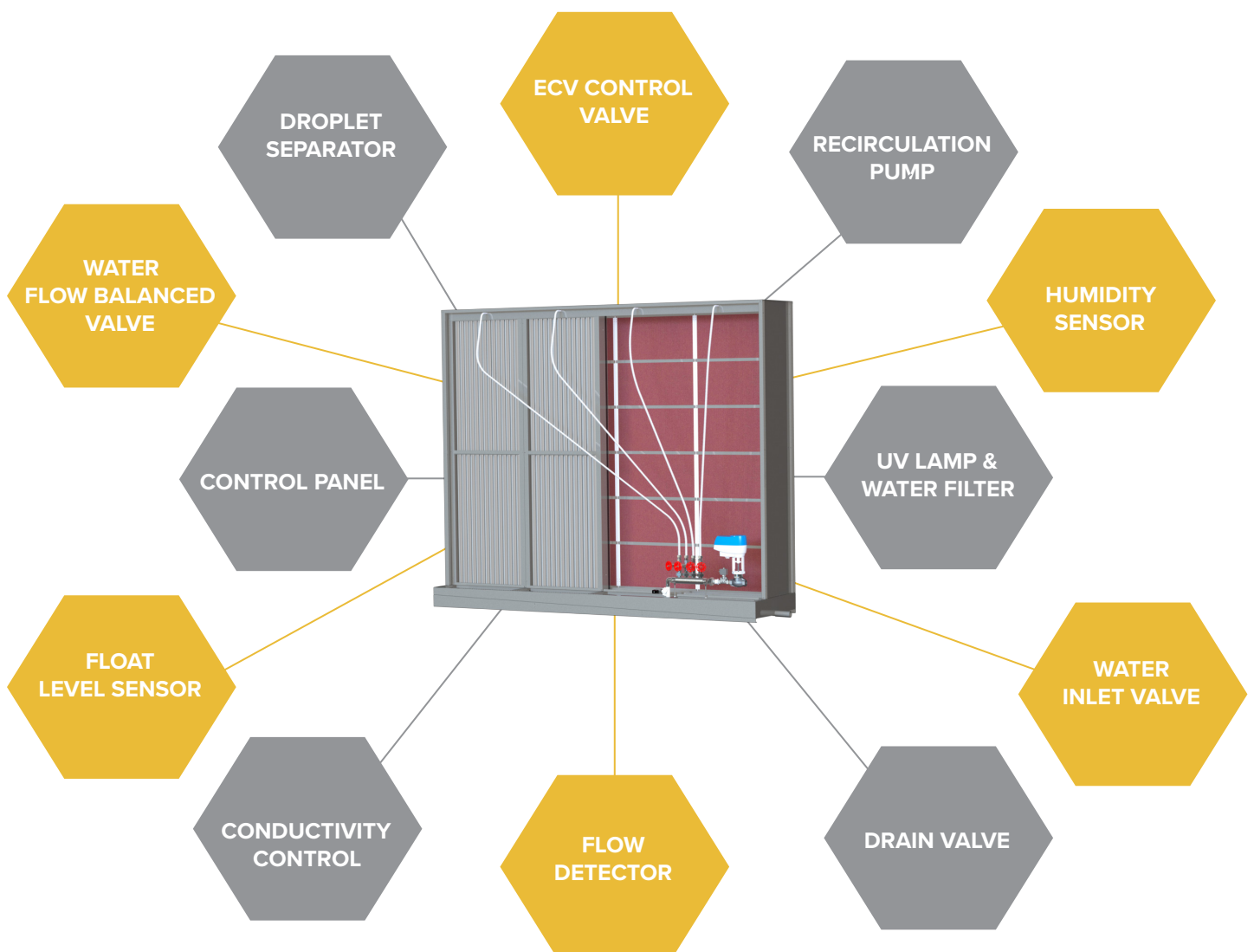
### A SIMPLE, NATURAL, HYGIENIC AND EFFICIENT PROCESS

The Armstrong EvaPack™ controls water evaporation using an adiabatic process. Dry air is passed through a humid media consisting of corrugated sheets of non-organic wet fibres. For water evaporation, the EvaPack™ range uses the sensible heat of the air. This cools and humidifies the air.



## ACCESSORIES & OPTIONS

EvaPack™ is fully custom-made and configurable, specifically designed to optimise the wetting surface by ensuring a continuous and efficient evaporation process (humidification and cooling).



# BENEFITS

## EVAPACK™, THE ULTIMATE HYGIENIC EVAPORATION

The EvaPack™ is a breakthrough in evaporation, with outstanding efficiency, remarkable energy savings, precise control, simplified maintenance and unequalled fire resistance. Certified according to the most rigorous hygienic standards, our product offers easy customization to meet your specific needs.

- ✓ Best-in-class evaporative efficiency, thanks to a large contact area for 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 ultrapure water (18 MΩ/cm or 0,055 μS/cm), offering precise evaporation control from 0 to 100 % and minimizing water loss for optimum use of resources.
- ✓ Easy maintenance thanks to easily removable cassettes and ancillaries, allowing full hygienic cleaning (including validation) of the unit with easy access from the side and front.
- ✓ UL 900 and Euro class “A1” certified, non-combustible fire resistance, in compliance with EN ISO 1716:2011, EN ISO 1182:2011, no flame, no smoke.
- ✓ Ideal for safe environment. Certifications : VDI 6022, GREENGUARD GOLD (UL 2818), RoHS 2011/65/UE (2002/95/CE) directive, ISO 846 and no fiber loss in the air.
- ✓ Fully customizable for a wide range of applications and installations.
- ✓ Designed to replace a steam humidification system with the same level of performance.

## A UNIQUE CONTACT PANEL

### EVAPACK™ PAD

Compacted fiberglass sheets, without glue

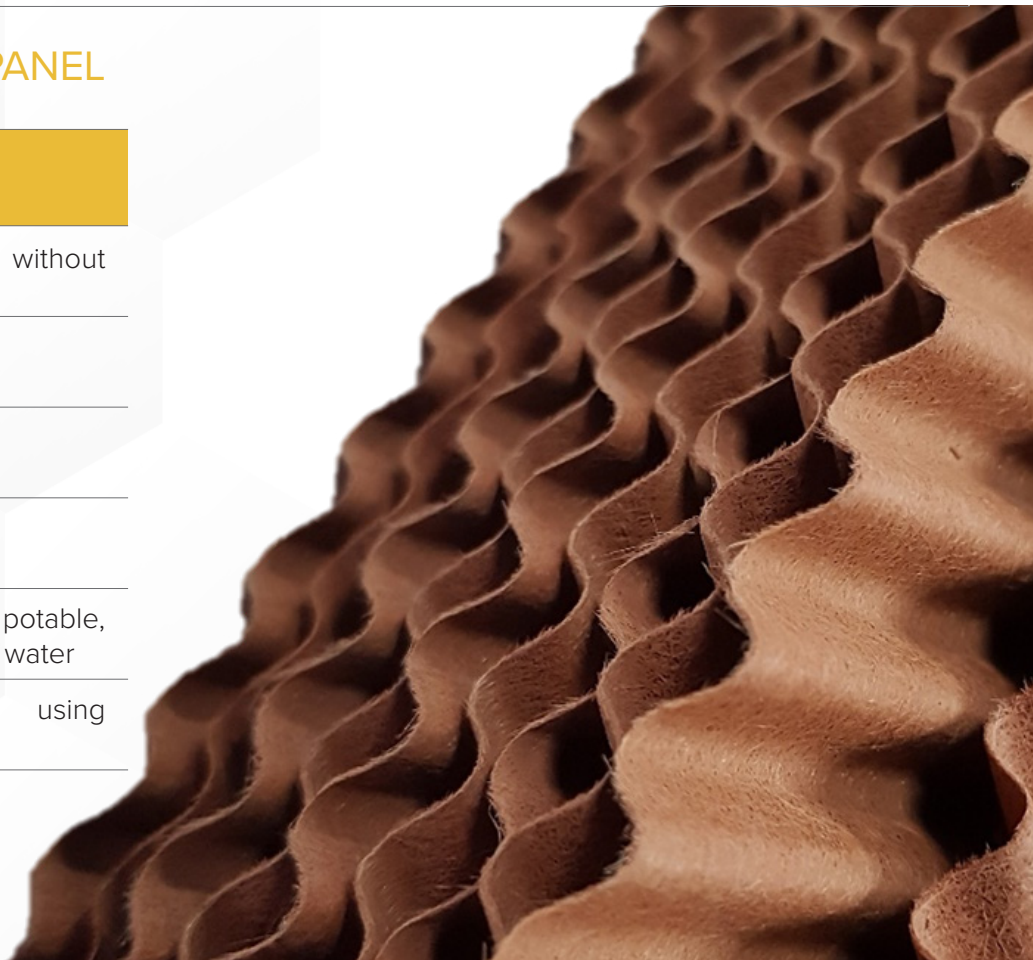
No loss of rigidity over time

Fireproof, no flame, no smoke

Hygienic

Compatible with all types of potable, softened, osmosis and ultrapure water

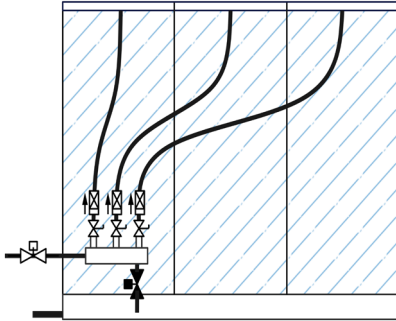
Exceptional longevity when using osmosis or ultrapure water





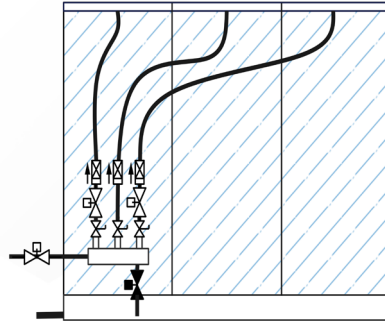
# CONFIGURATIONS

## DW - DIRECT WATER



ON/ OFF Control

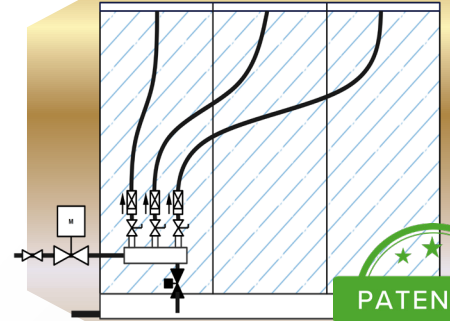
Recommended for hard water



Staging Control

Recommended for hard water

### TOP DECARBONIZATION SOLUTION



PATENTED

Proportional Control

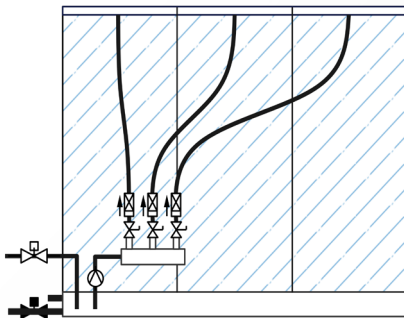
Only with RO water / DI water

Cleaning & controlled system patented

*The additional water goes directly to the drain.*

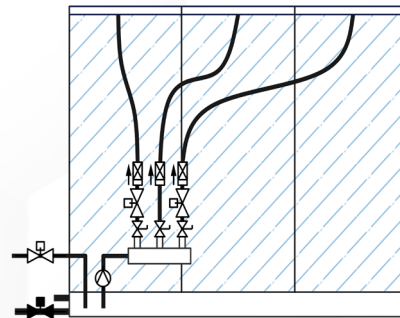
*The water supplied is evaporated.*

## RW - RECIRCULATED WATER



ON/ OFF Control

Recommended for medium water hardness

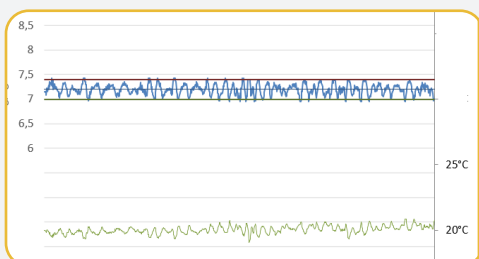


Staging Control

Recommended for medium water hardness

*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.*

## PROPORTIONAL CONTROL



### FOCUS ON EVAPACK™ PROPORTIONAL CONTROL

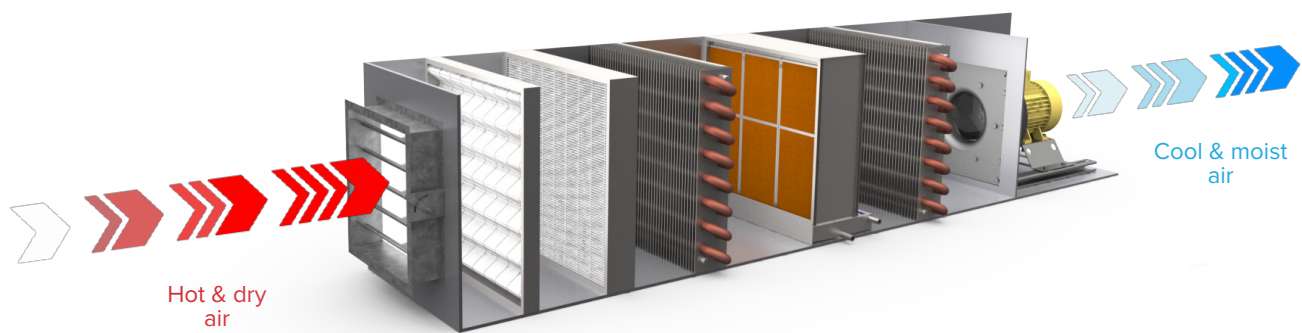
Proportional control refers to controlled evaporation with humidity ratio control accuracy up to  $\pm 0.2$  g of water/kg of dry air.


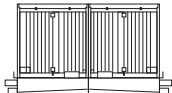
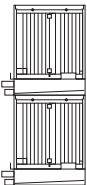
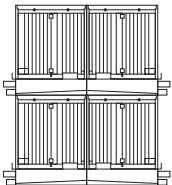
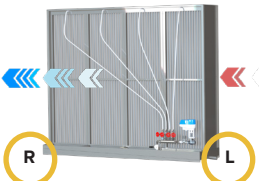
This approach enables a significant reduction in water consumption, which is particularly important at a time when responsible management of water resources is a major priority.

# SELECTION

## REQUIRED INFORMATION FOR EVAPACK™ SELECTION

WATER SUPPLY	Tap	Softened	RO
CONTROL	On / Off or Staging	On / Off or Staging	Proportional
CONFIGURATION	RW or DW	RW or DW	DW
AHU	Process airflow & internal dimensions of the AHU section (WxH)		
AIR CONDITIONS	Inlet air & Requested outlet air conditions (temperature & humidity)		
APPLICATION	Cooling or humidification (hygienic or not hygienic requirements)		



MODEL NUMBER								
EVA - x -	A / D	xx	R / L	DW / RW	xxxx	xxxx	xxx	0 / 1
<div>Drain position</div> <div>1: side drain (R/L) - VDI 6022 2: bottom drain 3: front drain</div>	<div>Installation</div> <div>A: for air handling unit D: for air duct (flanged)</div>	<div>Modular configuration</div> <div><div> 10</div><div> 20</div><div> 11</div><div> 21</div></div>	<div>Droplet separator</div> <div>0: without droplet separator 1: with droplet separator</div>	<div>Pad thickness</div> <div>in mm</div>	<div>Height</div> <div>in mm</div>	<div>Width</div> <div>in mm</div>	<div>Hydraulic system</div> <div>DW: direct water distribution RW: water recirculation</div>	<div>Commissioning position</div> <div>R : right      L : left</div> <div></div>

# STRONG IS WHO WE ARE

## EXPERIENCE MAKE A WORLD OF DIFFERENCE



### ARMSTRONG INTERNATIONAL, OVER 100 YEARS OF INNOVATION

Founded in 1900 by Adam Armstrong, the Armstrong International Group has established itself as a pioneer and expert in the manufacturing of state-of-the-art industrial steam traps and humidifiers.

Our experience of more than 100 years and exceptional expertise have resulted in the creation of EvaPack™, a ground-breaking product that offers a unique level of hygienic humidification and cooling through controlled evaporation.

### INNOVATIVE CONTROLLED EVAPORATION

The EvaPack™ features a unique design that has redefined the landscape of the adiabatic humidification and cooling market by introducing a product that is in perfect harmony with today's energy savings, water conservation and decarbonization trends.

The EvaPack™ range is positioned as the must-have choice for those striving for excellence. Choosing EvaPack™ means choosing the future of industrial adiabatic humidification and cooling. A perfect fusion of tradition and innovation, as well as quality and performance.

## BRINGING NET ZERO WITHIN REACH

### ARMSTRONG INTERNATIONAL MAKES IT EASIER WITH A ROADMAP TO DECARBONIZATION, TAILORED FOR YOUR FACILITIES AND INDUSTRY

As the call to combat climate change gains momentum and the world moves towards decarbonization, net zero has become our shared destination. Many companies are unsure of how to move forward and want a pragmatic, ready-to-implement solution. Although there is a systematic methodology to decarbonization, what's right for one facility may be wrong for another. Armstrong is here to do what's right for you.

## CERTIFICATIONS





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

Armstrong International  
The Americas | Asia | Europe, Middle East, Africa  
[armstronginternational.eu](http://armstronginternational.eu)

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