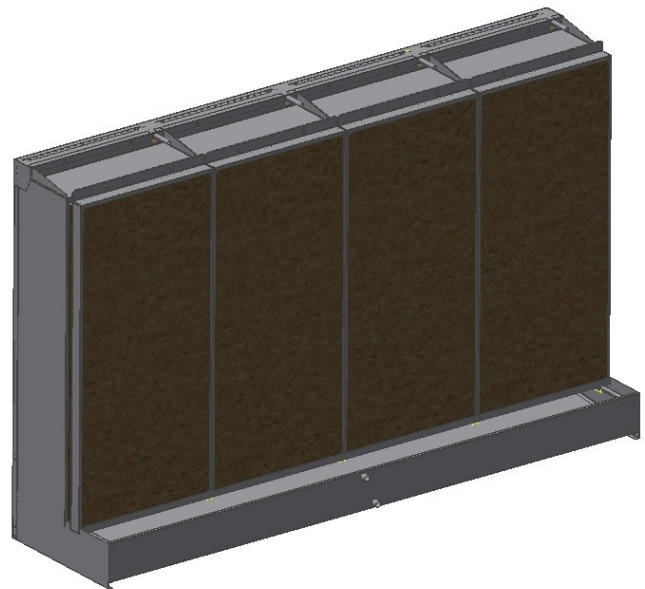
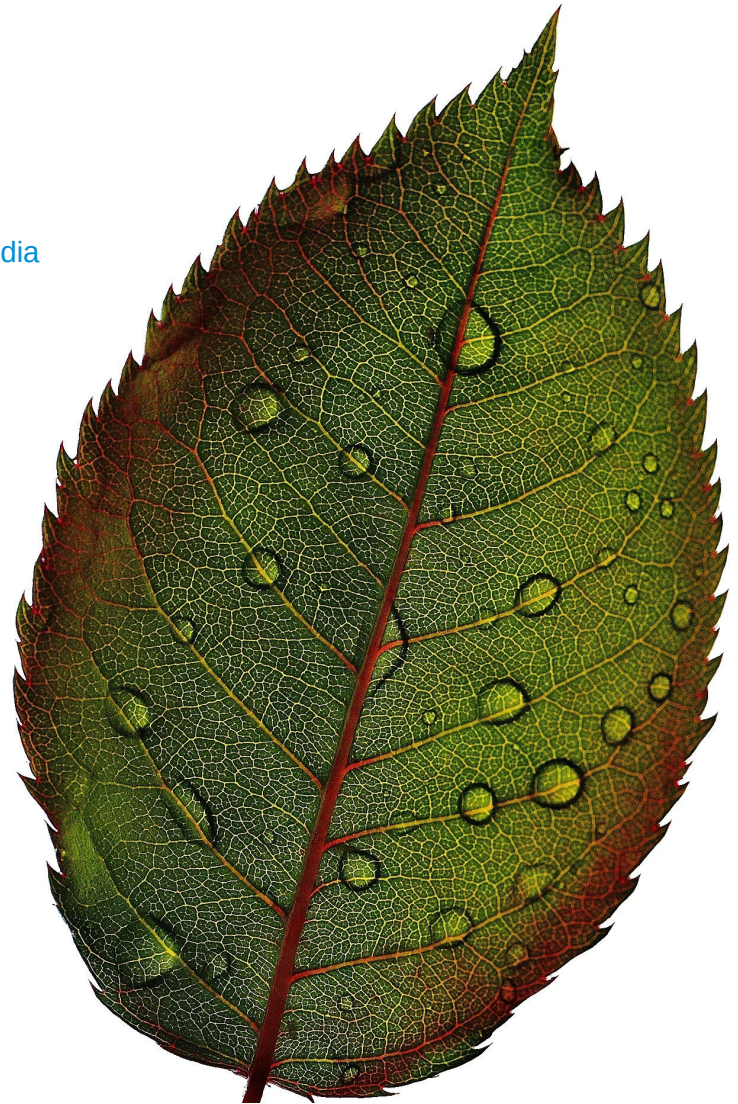


# Evaporative humidifier and cooler

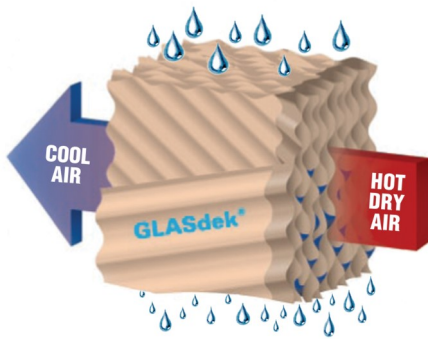
# AEM

- Very low energy consumption, less than 100W
- Evaporation efficiency up to 99% (at 200 FPM)
- Inorganic ceramic evaporative media material.
- Very low pressure drop across evaporation media
- Suitable for tap or RO water without additional option.
- Integral stainless steel construction for frame and media cassettes.
- Legionella safe : aerosol free and no stagnant water.
- Electrically sound design : no electrical component close to or submerged by water.
- Innovative pulse to demand control minimal water loss.
- GLASdek® evaporative media by Munters.
- UL900 Class1 certified evaporative media .
- GREENGUARD Gold Certified by UL
- Electronic controller with easy to export data log.
- Modbus or BACnet communication in option.



  
**STEAMOVAP**  
humidity provider

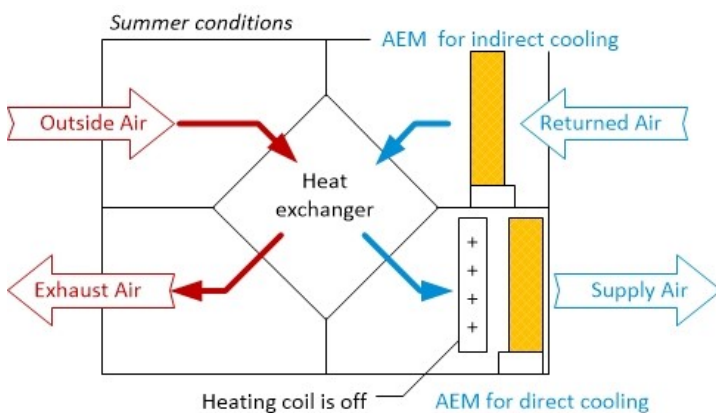
# Principle of operation



AEM, Evaporative humidifier and cooler using media is designed to be installed in Air Handling Unit (AHU) or ventilation duct. Water is circulated in the evaporative media, as hot air is passing through the wet media, water is evaporated by the latent energy of the air. As a result the air gets cooled off up to 21°F [12°C] and humidified at the same time.

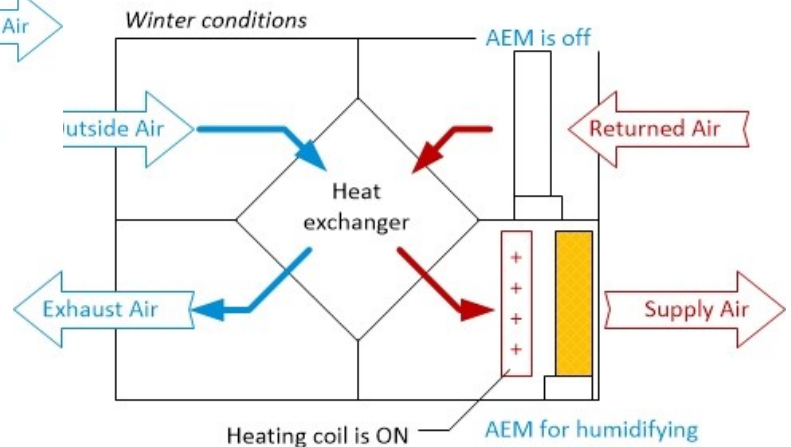
Evaporation efficiency is a function of the media design and its thickness, higher the surface contact between the air and wetted media is, better the evaporation efficiency will be and as a consequence higher the pressure drop will be too.

AEM evaporative humidifier and cooler is ideal for installation in AHU with heat recovery heat exchanger:



⊕ Direct evaporative cooling and humidifying when installed in the supply.

⊕ Indirect evaporative cooling when installed in the return lowering the air return temperature will result in increased efficiency for the heat exchanger.



## Electronic controller

- ⊕ Large LCD display and user friendly menus.
- ⊕ Control up to 5 stage, easy to connect and set-up
- ⊕ Log of operation and alarms easily exportable.
- ⊕ Ethernet allowing remote connection for data log exportation or remote control
- ⊕ Protocols such as Modbus or BACnet IP (or MS/TP) available.



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