

AEM evaporative humidifier and cooler using evaporative 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 12°C and humidified at the same time.

AEM evaporative humidifier by **steamOvap®** is redefining adiabatic humidification. It is intrinsically safe regarding the risk of bacteria growth (such as legionella), since it is not re-circulating any water, and at no time would cause stagnant water in internal circuit or surrounding. It is also the humidifier that consumes the least electricity in the industry with only 30W whatever its capacity.

AEM is aerosol free and can operate with city drinking water or reverse osmosis water.

AEM evaporative humidifier is ideal when warm and dry air is entering or returning HVAC system - i.e. in data center, when you can fully benefit from the adiabatic process cooling and humidifying the air at the same time.

- Up to 99% efficiency (at 1.0m/s)
- Intrinsically safe regarding the risk of bacteria growth.
- Very low energy consumption, & pressure drop (less than 50W & 75Pa) .
- Inorganic ceramic evaporative media material.
- Suitable for tap or RO water without additional option.
- Innovative pulse to demand control minimal water loss.
- GLASdek® evaporative media by Munters, UL900 Class1 & GREENGUARD Gold Certified by UL
- Integral stainless steel construction.

BEST IN-DUCT SOLUTION

- Why spraying in a duct? If it is resulting in the need for a droplet eliminator, long absorption distance, risk of water aerosol in the air and the need for pure water, all this at more cost !
- Unlike any other adiabatic humidifier on the market:
 - **AEM** is not recirculating water ! So there is absolutely no stagnant water and no bacterial risk associated.
 - **AEM** does not need pure water to operate! It can operate with **tap water** with no dust or residue in the air.
 - **AEM** provides the lowest pressure drop of the industry, and does not require "wet" duct section !
 - **AEM** uses less than 50W of power to operate.

INNOVATION

- Unique pulse to demand water flow, ensures:
 - No stagnant water.
 - No water loss.
 - Accurate & modulating control.
 - No unsafe live electrical submerged or closed to water.
- 7in touch screen user interface.

MADE IN CANADA

Proudly designed and made in Canada by a dedicated team combining more than 40 years of experience in humidification.

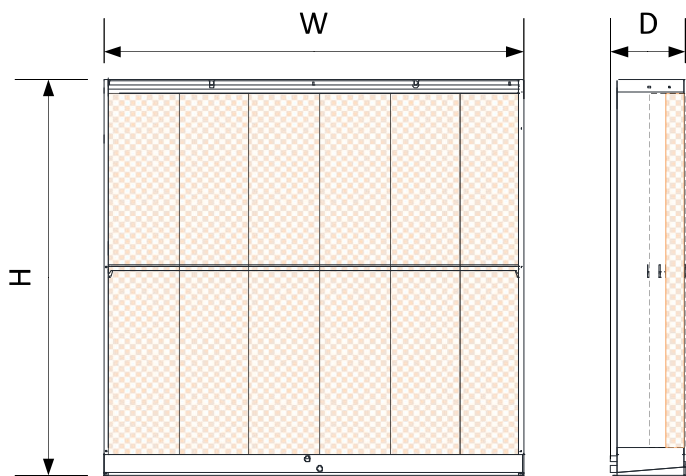


Best warranty of the industry!

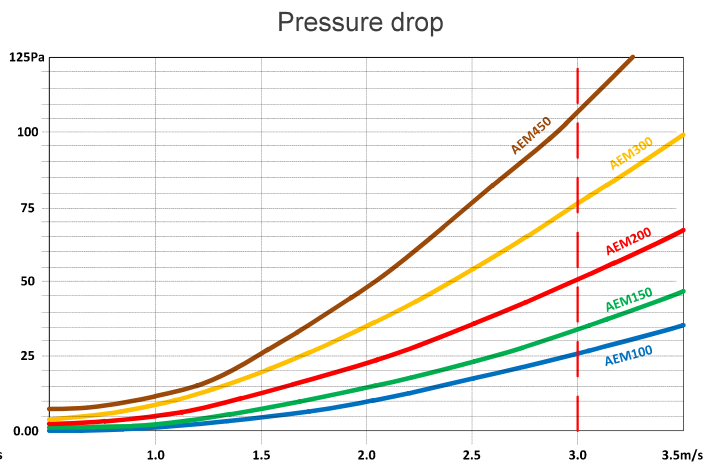
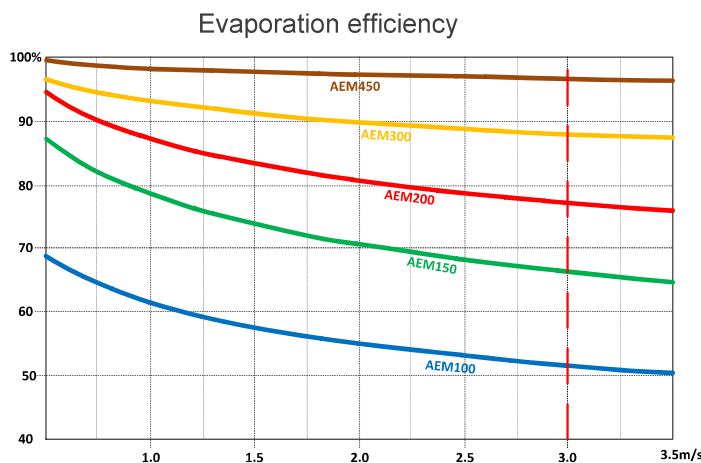
If your humidifier installation has been verified and validated (with a start-up report) by one of our authorized representatives.

TECHNICAL DATA

Model	AEM100	AEM150	AEM200	AEM300	AEM450
Evaporation efficiency	62% @ 1.0m/s	76% @ 1.0m/s	85% @ 1.0m/s	92% @ 1.0m/s	99% @ 1.0m/s
Capacity (kg/h)	4 to 2200	4 to 2200	4 to 3200	4 to 4500	4 to 4500
Pressure Drop	Below 5Pa at 1.0m/s	Below 5Pa at 1.0m/s	Below 5Pa at 1.0m/s	Below 10Pa at 1.0m/s	Below 10Pa at 1.0m/s
Water TDS (ppm)	30 to 1,000ppm	30 to 1,000ppm	30 to 1,000ppm	30 to 1,000ppm	30 to 1,000ppm
Power supply (Vac & W)	120 Vac, 1ph 30W	120 Vac, 1ph 30W	120 Vac, 1ph 30W	120 Vac, 1ph 30W	120 Vac, 1ph 30W

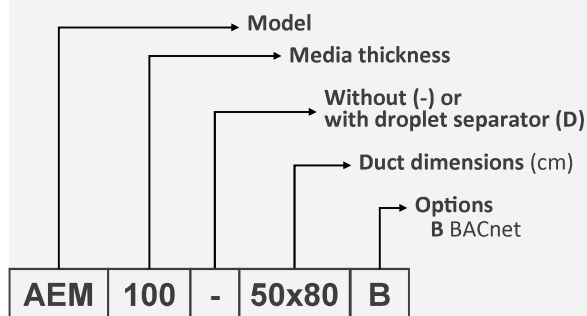


Model	Dimensions		
	W	H	D
AEM100	Duct Width - 10cm	Duct Height - 10cm	60cm Max.
AEM150			
AEM200			
AEM300	Min=60cm Max=180cm	Min=60cm Max=300cm	
AEM450			



Note: Installation of droplet separator is required when air velocity is above 3.0m/s

NOMENCLATURE



COMPONENTS SUPPLIED

- Electronic controller with 7in touch screen.
- 2 stage water filters 1µm + anti-bacterial silver ions cartridge
- Electric water valve(s) (24vac)
- Water hoses
- 230Vac, 1ph power supply