



IN-DUCT HUMIDIFICATION and EVAPORATIVE COOLING

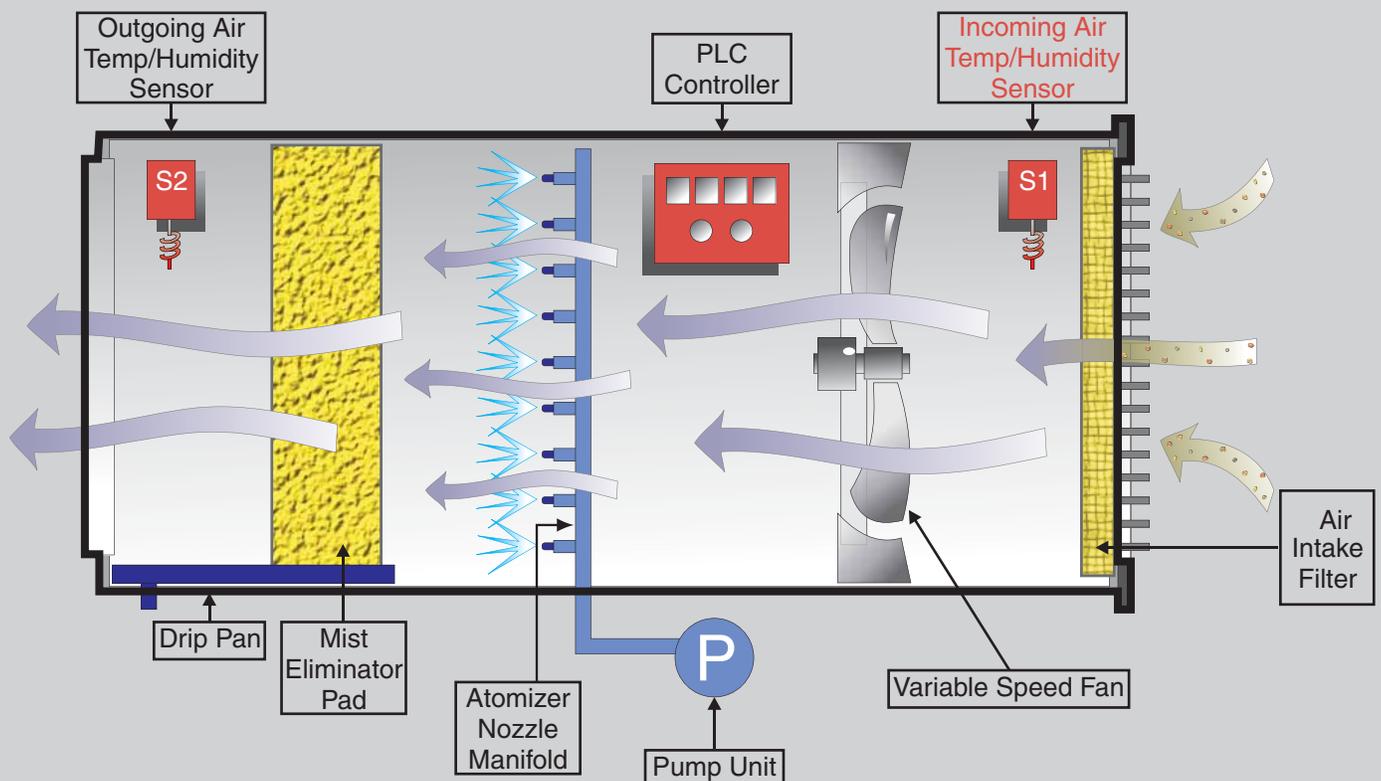
AMCO's In-Duct Humidification systems are a cost-effective solution for two different applications: as a Central Air Humidification unit and Evaporative Cooling system. These systems are custom designed by AMCO to meet customer's specific requirements for moisture level and airflow.

AMCO's In-Duct Humidification system is a complete unit that includes a duct section ready to install directly in-line to the existing duct or, to hang as a freestanding unit.

Optional equipment may be chosen from customized manifolds, and drain pans and installed directly into an existing duct.

The drawing below represents a typical design with components and instrumentation.

The In-Duct system utilizes the AMCO high-pressure water atomizing system with a high-pressure pump to convey the water to stainless steel manifolds to be atomized through AMCO spray nozzles. The result offers the finest water droplet size that achieves maximum evaporative performance and very low operating costs: Mist Eliminators remove all droplets to ensure a fully vaporized air stream. AMCO's In-Duct systems are an excellent replacement for steam systems and will achieve substantial reduction in operational costs.





BENEFITS

The AMCO In-Duct design offers benefits over traditional solutions.

- **Modulation control.** When this feature is incorporated into the design and is coupled to a variable speed fan, the In-Duct unit produces carefully and accurately controlled moisture in the airflow. Normal requirements are in the range of $\pm 0.1\%$. AMCO's In-Duct designs are suitable for applications where precise relative humidity control is expected, such as medical, electronic assembly, chemical, pharmaceutical and cosmetics plants, paint booths and, schools, libraries, etc.
- **Evaporative Cooling.** The design of AMCO's In-Duct Humidity Systems makes them suitable as a self-contained evaporative cooling unit because it controls both water flow and airflow.

Temperature reductions of up to 20°F (11°C) can be achieved in an ample range of weather conditions at a fraction of the cost of any other type of air conditioning.

- **Compact design.** The AMCO In-Duct Humidity System is compact and can be applied where restrictions in room layout and airflow do not allow installing traditional systems.
- **Low Cost of Operation.** AMCO's high-pressure water nozzles offer one of the lowest installed cost systems, and lowest operational costs.

All AMCO systems are designed and manufactured at AMCO's North Carolina plant.

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