



WHY HUMIDIFY? FOR GREENHOUSES AND VERTICAL FARMS ...

Humidification, dehumidification
and evaporative cooling

 **condair**

CONSTANT AND EVEN HUMIDITY LEVELS ALLOW PLANTS TO THRIVE

Both humidity and evaporative cooling are essential to seedling development and healthy plant growth. Precise control can help eliminate the dangers of plant pathogens.

Greenhouse and Vertical Farm Humidification

Maintaining consistent humidity levels in greenhouses and vertical farms provide a comfortable environment in which plants can thrive. Enhancing ventilation, maintaining humidification, and ensuring proper cooling can aid in seedling development and healthy plant growth.

The most common issue regarding greenhouses and vertical farms are the combination of low humidity and high temperatures. When humidity drops below 30% RH, serious issues can occur, including stunted plant growth and slowed photosynthesis. Just like with low humidity, high humidity levels can also affect plants. Oedema, edge burn, soft growth, mineral deficiencies are among many of the issues that can occur due to high humidity. However, high levels of humidity most commonly encourage the development of disease outbreak which can be very dangerous and harmful.

Greenhouse and Vertical Farm Solutions

Irrigation is crucial for plant hydration and health, however it is an insufficient solution for overheating and can be potentially dangerous to your plants. Watering plants directly and abundantly to make up for the high temperatures and low humidity levels may result in the growth and spread of mold spores.

Humidity control is vital to preventing the spread of disease. It is important to keep in mind the movement of the air, and ensure you have proper ventilation of the air to prevent the buildup of plant pathogens, such as fungi and bacteria, which manifest in still air conditions.

A Condair Solution for your Greenhouse or Vertical Farm

Condair's humidification and evaporative cooling solutions are perfect for maintaining and creating the perfect environment for plants without wetting. This will aid to achieve the plants maximum potential. Condair's full line of products can meet the needs of any size and complexity of your greenhouse or vertical farm. Our nozzle humidification systems allow you to create different conditions in various zones and can be placed exactly where you need them for precise humidity control and evaporative cooling.



THE BENEFITS OF PRECISE HUMIDITY CONTROL AND EVAPORATIVE COOLING

The advantage to growing plants in a greenhouse or vertical farm is that you can control all the environmental factors: temperature, air flow, and even moisture content in the air. Condair humidification and evaporative cooling solutions can offer the following benefits to your plants:

- Improves plant quality and uniformity
- Increases germination
- Reduces stress on plants and increases general productivity
- Speeds up plant growth
- Protects from freezing and heat shock
- Eliminates the spread of disease
- Improves working environment for people



WHEN IT COMES TO GREENHOUSES AND VERTICAL FARMS, NO HAS MORE EXPERIENCE WITH HUMIDITY THAN CONDAIR

Condair nozzles will provide the cooling that plants crave and the consistent humidity levels in which they thrive. Ideal for all types of commercial greenhouses and vertical farms. The Condair systems respond quickly to the changes that occur throughout the year, maintaining a constant and comfortable environment necessary for both seedling development and healthy plant growth.



DL-Series Hybrid adiabatic humidification



JS-Series Compressed air and water spray humidification



HP-Series High Pressure nozzle humidification



ML-Series High Pressure nozzle humidification

As the leading manufacturer of commercial/industrial humidification systems for more than 75 years, Condair has the technology and application expertise to meet the needs of any application.

Contact us today and ensure you have the best evaporative cooling solution for your greenhouse or vertical farm.

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