Cannabis Facility Architectural Design Company Highlights Industrial CEA Dehumidification Best Practices

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Boulder, Colorado - Surna (www.surna.com) is a Colorado-based company that specializes in the design and implementation of cannabis cultivation facilities. The company's team of engineers has developed a number of proprietary technologies that are designed to optimize plant growth and yield while minimizing energy consumption.

In a website post, Surna Cultivation Technologies has outlined the industrial CEA dehumidification best practices.

Industrial dehumidification is a process that helps to control the level of humidity in an enclosed space. This is usually done in order to protect equipment or products from damage caused by excess moisture.

Proper dehumidification is essential to ensure the right conditions for plants to flourish. If a facility doesn't have enough dehumidification, indoor air in the greenhouse may become too humid which can lead to issues such as mildew and mold.

Surna added, "In controlled environment agriculture (CEA), dehumidification is used to create and maintain optimal conditions for plants. By reducing the amount of moisture in the air, dehumidifiers help to reduce humidity levels, which encourages proper transpiration and nutrient uptake and helps to prevent mold growth. Dehumidifiers can also help to lower the risk of pests and diseases, as they create an environment that is less conducive to their growth."

Surna notes that in an agricultural setting, be it an indoor grow room or a farm, the humidity levels have to be closely maintained and managed. A high level of humidity can provide the perfect habitat for pests and mold and low levels of humidity can lead to excessive transpiration and lower yields. In the end, facilities must be proactive in maintaining appropriate levels of humidity through the utilization of dehumidifiers or an HVACD system with humidity control.

When choosing a dehumidifier for an indoor grow operation, there are several factors to consider. The size of the grow room is a major factor in determining which dehumidifier a grower should buy. The capacity of a dehumidifier is measured in pints per day (PPD), and the larger the room, the higher the PPD rating.

Surna explains that the target climate and humidity levels in the grow space are important for plants to thrive. Too much or too little of either can have a negative effect on plant growth.

Surna added, "The target climate and humidity levels in the grow space should be similar to their natural habitat. It is a good idea to research the native environment of your plant species to know the climatic conditions they prefer."

Surna continued, "Another factor is quality and performance. Check out buyer reviews and understand the specs of the units you are comparing. Only buy units that are UL or ETL listed and performance tested by a third party."

Each grower's requirements are unique therefore there isn't a single best dehumidifier to suit every facility. The ideal choice for each grow room will be based on the things required to succeed as a grower.

By consulting with a mechanical designer to ensure that the system is properly designed. This way, growers can avoid any potential issues down the line.

Surna's systems are backed by a team of knowledgeable engineers who are always available to help ensure that businesses are getting the most out of their investment.

Growers who are looking to partner with Surna can learn more by visiting the company's website. There, they can fill out a form to request more information. A representative will then reach out to discuss the next steps.

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Surna Cultivation Technologies

Surna, Inc is headquartered in Boulder and brings value-added climate control solutions to the cannabis industry. Surna helps improve crop yield, optimize energy & water efficiency, and satisfy state and local codes, permitting and regulations.

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