# Increasing Grow Room Efficiency With Grow Rack Shelving Guide by Surna Cultivation Technologies

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Boulder, Colorado - Surna Cultivation Technologies is a company that specializes in indoor agriculture and cannabis cultivation. The company's products are designed to provide maximum storage capacity while still providing plenty of space for plant growth.

Surna Cultivation Technologies, a manufacturer of engineering-driven cannabis cultivation systems, highlight mobile rack systems that optimize plant positioning within indoor grow facilities. Designed for cultivators who demand greater production from smaller footprints.

The experts at Surna mentioned, "Growing on mobile vertical grow racks can help increase your yield capacity by allowing you to maximize your square footage. Mobile racks allow you to stack your plants in vertical tiers, and they can be easily moved to create aisleways as needed. This provides a more efficient way to use your grow space."

Surna continued, "Growing on racks also helps you keep plants off the ground and makes servicing them more hygienic and convenient. It is important to note, however, that especially because vertical racking

allows you to condense more plants into a single space, you need to perform routine deep cleaning and identify problems, like powdery mildew and mold."

Cannabis farmers are turning to vertical farms to increase yields and improve quality control. Mobile grow racks permit growers to move racks side to side using an easy-to-use lever to create aisles that allow access to plants. Based on how high the tiers are as well as the number of tiers that are utilized, employees can climb to plants at higher levels with traditional steps ladders, rolling ladders, or lifts.

A lot of growers are curious about how can grow racks affect HVAC and Surna highlighted, "Similarly, growing more plants will require additional irrigation. First, be sure to work with a vendor who can provide an irrigation system that will function properly in a vertical application. But also collaborate with your HVAC designer to account for the water volumes you expect to use. Remember that water added to the grow will either be removed as runoff or will enter the atmosphere as water vapor. More water means higher humidity, which your HVAC system will need to manage."

"Having multiple levels of canopy makes it harder to ventilate the space. To ensure a homogenous environment, your mechanical engineer will need to account for this. This is more difficult than simply adding a few more fans to the space, since adding tiers of plants can easily create pockets of trapped air and moisture. This is due to the fact that multiple levels of the canopy will create more obstacles for airflow, making it harder to circulate the air and keep the plants cool and dry."

Just as each plant is different, each grow room has its own specific set of requirements. In order to select the most appropriate mobile racking system, it is important to consider the size and layout of the room, the type of plants being grown, and the desired level of control over the environment.

Surna Cultivation Technologies is committed to providing the best possible product for its customers. Visit (www.surna.com) to learn more about Surna's products and services.

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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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