



Orange Climate Agri

VA Grow Vertical Farm

VA Grow Vertical Farm: an ideal climate

Two experts in ventilation and air handling combine their strengths and thus ensure an optimal climate in Vertical / Indoor Farms all year round. Where a lot of innovations are focussing on lighting technology, people often forget the basics: a good indoor climate.

The most important innovation in Vertical / Indoor Farming is not LED, it is CLIMATE: 365 days a year optimal growth conditions, regardless of the location and exterior climate conditions.

Innovation in Vertical Farm

The VA Grow Vertical Farm is composed of an air conditioning system from Orange Climate Agri and air distribution hoses from KE GrowAir. It combines the expertise of two major players in the utility sector, who are now transforming their climate knowledge and experience into vertical / indoor farming innovations. With vertical farming, a lot of effort is put into creating innovations for LED lighting, whereas the climate is often neglected. The VA Grow Vertical Farm provides all the options you need for temperature, humidity level and ventilation: An optimal growing climate.

Utility experts

Merging the expertise of these two utility experts means a significant reduction in losses for the agricultural sector (especially when it comes to vertical / indoor farms), regarding energy and water consumption. The system keeps the climate constant, resulting in the production of strong, healthy crops all year round, 365 days a year, 24/7.

The specific technical installation and corresponding hoses are studied and calculated for each project, allowing the desired climate to be created in every vertical farm.

A tailor-made solution for the very best results.



Conditioned air is then evenly distributed via the patented GrowAir hoses. The result is a constant climate close to the plant 24/7/365, regardless of the location and exterior climate conditions.

Specialist in air distribution

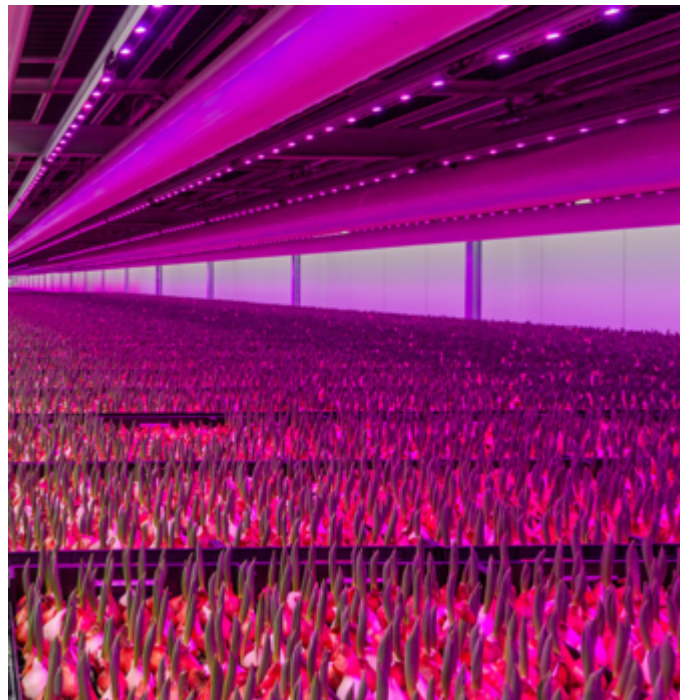
KE GrowAir specialises in sustainable ventilation solutions for healthy indoor climates and energy savings using textile air distribution systems. Thanks to its patented discharge pattern, it achieves a uniform horizontal and vertical temperature gradient. These advantages and the expertise developed in the air distribution utility sector are now being exploited in the horticultural sector, resulting in a more homogenous climate. It makes it easier to grow plants in closed, semi-closed and vertical systems.

Specialist in air handling

Orange Climate has been supplying utility air handling units since the 1960s, and is the market leader in the Netherlands, trading as OC Verhulst. The company utilises its expertise to help growers, breeders and greenhouse builders achieve the indoor climate they require. Its air handling units are equipped with a wide variety of ventilation options (these could include cooling, heating, dehumidification, humidification or drying). The specific climate conditions are created in a sustainable, energy-efficient way. Some examples include heat recovery with more than 90% efficiency or active recirculation with CO₂ retention. It results in stable temperatures and humidity levels that create ideal growing conditions. KE GrowAir's air distribution systems are then used to distribute the conditioned air evenly.

Unbeatable combination

By uniting their areas of expertise, KE GrowAir and Orange Climate Agri's solution guarantees growers the best growing conditions all year round, and frees them from local climatic and geological constraints. It's an unbeatable combination that ensures optimal growth conditions and significantly better production 365 days a year





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