



Ultra High Yield Vertical Farming of Tomatoes and Cucumbers

Anywhere, year-round, ultimate quality and freshness

Enabling the Next Chapter in the Controlled Environment Agriculture (CEA) Revolution: the world's first vertical indoor grow rooms for fruity vegetables at unprecedented yields

Grow-tec is launching a breakthrough end-to-end solution for vertical indoor cultivation of vegetables (tomatoes and cucumbers) achieving annual yields of 500-800 kg / m² - an order of magnitude above current best-in-class alternatives.

It builds on dozens of CEA facilities the company commissioned around the world and the vast knowhow acquired in the process.

The technological revolution of farming

Traditional farming is increasingly challenged: Supply chain disruptions spur initiatives for local food security.

Climate change diminishes arable land, water supplies, and crop yields. While consumers are demanding ever fresher, clean and local produce.

CEA revolutionizes food production. Using indoor cultivation and vertical farming, it dramatically reduces land usage, water consumption and environmental impact. It enables premium quality crops at much higher yields at any location adjacent to centers of consumption and is independent of any geographic, climatic or seasonal constraints.



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Key Features:

10X Yield: 800 kg / m² / year of cucumbers, 500 kg / m² / year of tomatoes

Profitable Unit Economics: Innovative cultivation model combining tiered vegetables growth with vertical leafy greens growth in the same room for maximum real estate utilization

Pilot or full scale facilities small scale (700 m²) and commercial scale (4000 m²) facilities available with production capacities up to 4000 tons of produce per year

Unique horizontal trellising: ensuring maximum density and yield

Full automation and optimization of growing conditions: state of the art sensors collect data in real time and automatically regulate irrigation, fertigation, temperature, CO₂, humidity and more.

Self sustained automated pollination

Closed circle process: No external contamination, no pesticides or chemicals, full isolation from outside climate, non thermal plasma air sterilization

