



# GREENFIELD HYDROPONICS GLOBAL

Turnkey System for creating Urban Organic Produce Farms

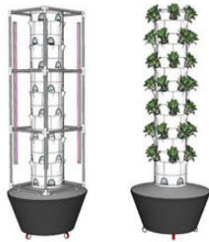


## Organic Bell Peppers

### 6000 SF Greenhouse

### Complete Controlled Environment Agriculture

#### 1 / 01 Hydroponic Tower



System Type : Commercial/Household  
Character : with movable wheels  
Hydroponic System Type : Vertical Garden Tower  
Total Planting Layer : 7 Layers  
Total Planting Holes : 42 Holes  
Crop Type : Lettuce/Leafy Vegetables/tomato  
Water pump : AC100-240V 50/60HZ,DC12V/24W  
Water tank Volume :100L  
More vegetables:amaranth,cabbage,Spinach, etc

#### Sizes

68 plants per tower · 1.4 m (height) · 9 stackable modular sections  
100 plants per tower · 1.8 m (height) · 13 stackable modular sections  
132 plants per tower · 2.1 m (height) · 17 stackable modular sections  
164 plants per tower · 2.5 m (height) · 21 stackable modular sections  
196 plants per tower · 2.9 m (height) · 25 stackable modular sections



With HGH Grow Tower, you can grow up to 30% more food, 3x faster — while saving up to 90% more space and 98% more water compared to traditional growing methods. Plus, there's no digging, weeding, or watering.

You can grow food in a variety of unlikely places indoors and out — thanks to the unique design of our vertical aeroponic growing systems. Starter systems require about 225 SF, a clean water source, electrical outlet, and sunlight (or grow lights).

For most herbs and leafy greens, the seedling to harvest cycle can be as short as 21 days.

Many hydroponic farming systems limit what you can grow. But **HGH Grow Tower supports more than 150 different plants** from delicate herbs and greens to hearty fruiting crops, such as tomatoes and squash. As a result, you can adapt your crop selection strategy on the fly to meet market demand.



### Configuration:

- ◆ 1-6000 SF Greenhouse with Nursery & Packing Area
- ◆ 220 - Vertical Towers that yields 285,200 pcs per year
  - ◆ Proprietary Control Center
  - ◆ Climate, Fertigation & Aeration System
  - ◆ Illumination System



### **36' x 168' (6048SF) Greenhouse at 16' under gutter height (13'6" under truss)**

- Hot dipped galvanized frame
  - Hot dipped galvanized gutters with downspouts- PVC not included from downspouts for drainage
  - 16' tall sidewall height
  - 12' post and truss spacing and 6' roof bow spacing
  - Flat cord truss system
  - Two roof vents with motors and contractor panels
  - (2) layer 6mil 4-year double poly roof- 1 layer IRAC and 1 layer Clear
  - (2) gable walls with 8mm blackout polycarbonate including framing and extrusions
  - (2) sidewalls with double poly clear film including framing
  - Double camlock base + inserts at top of sidewall
  - Single camlock base + insert on customer supplied base board
  - Air jumper kits and inflation fan
  - (8) 20" Schaffer HAF fans
  - (2) Modine 400,000 PTP heater- gas type to be determined (does not include vent stack)
  - 3 layer blackout curtain- 3 layer fabric , motors, contractor panels, cable driven system
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- Nursery space 600SF
  - Fertigation System
  - Climate & Aeration System
  - Evap Cooling & Exhaust Fans
  - PLC Control Center 200SF
  - Illumination System
  - 210 Vertical Grow Channels (70 by cycle)
  - Estimated annual yield: 180,000 lbs staggered for monthly production



**Daily usage:**

**Energy: 40 kW/ day**

**Water: 320 gallons/1211 liters/day**





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## Custom Project Design/Build Services

System can be adapted to existing buildings

**\*On-Site Installation \*Training \*Support**

- **Optional Atmospheric Water Generator System**



- **Optional Electrical Power Generator**

Custom-Built Primary/Standby Generators

Provisioned to ensure clean, constant and steady electrical power for

Hydroponic Systems and Atmospheric Water Generators



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