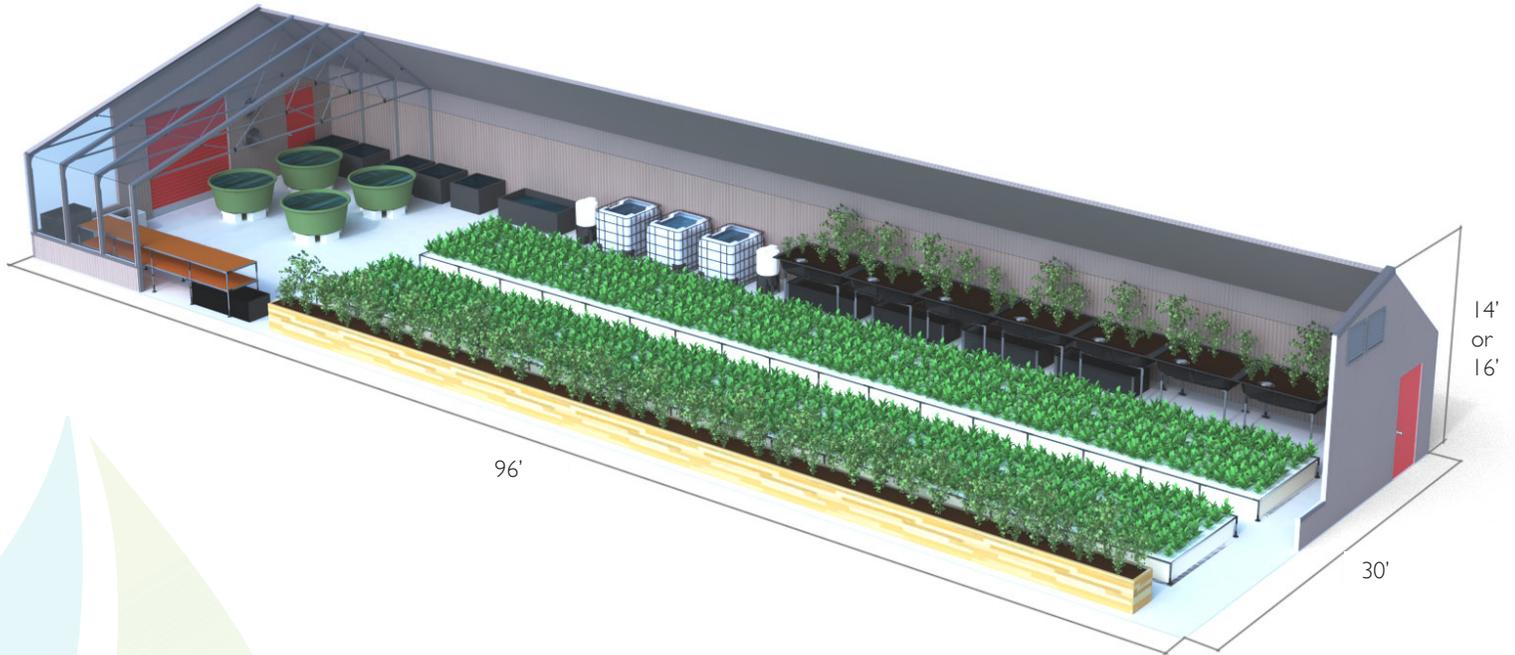


# ENERGY-EFFICIENT AQUAPONICS GREENHOUSES



## 2,880 SQ. FT. GREENHOUSE + AQUAPONICS

### PRODUCES:

**35,000** LEAFY GREENS PER YEAR  
*such as lettuce, kale, basil, chard, etc.  
using deep water culture*

**1,000** LBS. of FISH PER YEAR  
*from aquaponic fish tanks*

**ONGOING** HARVESTS  
*of high-value crops grown in media beds*

### USES:

**50%** LESS ENERGY  
*compared to conventional greenhouses. Greenhouse can  
be 'self-heating' with Ceres' Ground to Air Heat Transfer  
(GAHT™) System*

**90%** LESS WATER  
*compared to conventional agriculture*

*Estimated production and resource use varies by crop selection,  
growing conditions and climate.*

# A Complete Solution

## Energy-Efficient **DIY GREENHOUSES**

### ABUNDANT YEAR-ROUND GROWING

Ceres HighYield™ Greenhouse Kits use passive solar design principles, a fully insulated North wall, and triple layer polycarbonate glazing, making them the most energy-efficient commercial greenhouses on the market.

### HIGHER YIELDS

Glazing materials have a light transmittance and light diffusion to create a superb growing environment for high-productivity year-round growing.

### DURABILITY

Steel frames are rated for high snow and wind loads, ensuring your investment is protected from extreme weather.

### DO-IT-YOURSELF ASSEMBLY

Pre-fabricated building kits include all materials for easy, cost-effective assembly.

### CROP DIVERSITY

The hybrid aquaponic system integrates three growing methods: media beds for fruiting crops, deep water culture for high production of leafy greens, and wicking beds for root crops.

Four fish tanks allow for ongoing production and harvesting of edible fish such as tilapia, catfish, striped bass or high-value ornamental koi.

### ZERO WASTE

No water is discharged from the system. A vortex brewer can be added to capture additional solid waste, used as supplemental natural fertilizer for aquaponics beds, outdoor gardens or house plants.

### EFFICIENT DESIGN

The greenhouse floor plan maximizes plant production while maintaining convenient workspaces and walkways. A plant nursery and wash station allows for efficient end-to-end production of crops.

## + Hybrid **AQUAPONICS SYSTEMS**

Ceres Greenhouse Solutions is an industry leader in advanced, high-efficiency greenhouses. Colorado Aquaponics was founded by JD and Tawnya Sawyer to help businesses and communities design and build successful aquaponic systems. The Sawyers also own The Aquaponic Source and Flourish Farms, a 3,000 sq. ft aquaponics greenhouse in Denver, Colorado (right). Together, Ceres and Colorado Aquaponics work to integrate proven aquaponics systems into high-performance greenhouses for truly sustainable year-round growing.



# PRE-ENGINEERED AQUAPONICS GREENHOUSES

## Example 30' x 96' Greenhouse Floor Plan



### SYSTEM COMPONENTS

1. 300 GALLON FISH TANKS
2. WATER FILTRATION SYSTEM
3. WATER STORAGE
4. MEDIA BEDS FOR FRUITING CROPS (84 sq. ft.)
5. SEEDLING NURSERY SYSTEM
6. WICKING BEDS (136 sq. ft.)
7. DEEP WATER CULTURE BEDS (1,120 sq. ft.)

*“Aquaponics and passive solar greenhouses enable truly sustainable year-round food production. With the right system and the right structure, commercial aquaponics becomes practical and profitable.”*

*- JD Sawyer, Co-Owner,  
Colorado Aquaponics and  
The Aquaponic Source*