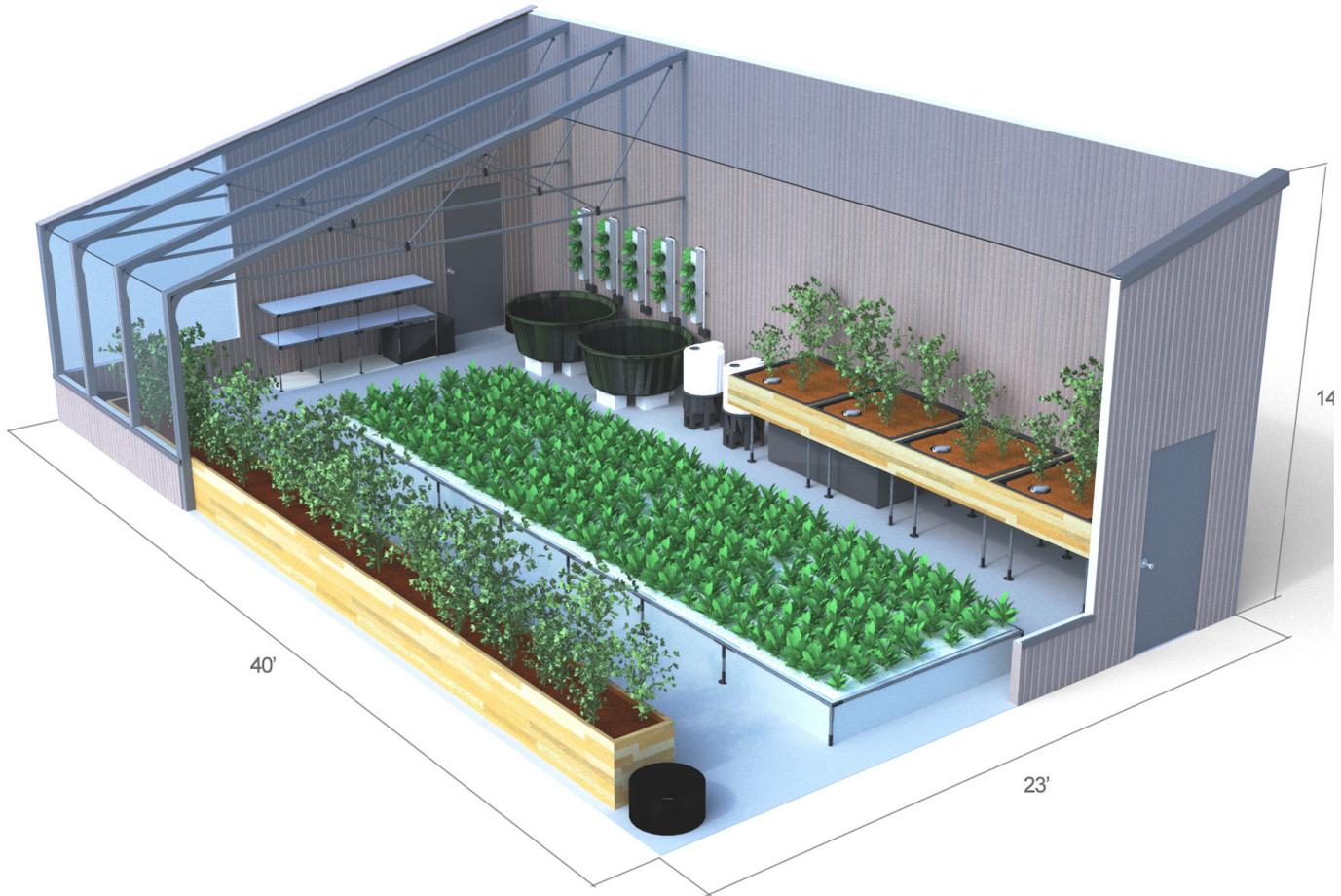


# ENERGY-EFFICIENT AQUAPONICS GREENHOUSES



## 920 SQ. FT. GREENHOUSE + AQUAPONICS

### PRODUCES:

**120-140** HEADS OF LETTUCE PER WEEK  
using deep water culture beds.  
*Chard, kale, microgreens, etc. also possible.*

**300-500** LBS. 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**

### ENERGY-EFFICIENT YEAR-ROUND GROWING

Ceres HighYield Greenhouse Kits use a fully insulated North wall (up to R-28), passive solar design principles, and triple layer polycarbonate glazing, making it the most energy efficient commercial greenhouse on the market.

### HIGH PRODUCTIVITY

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

### DURABILITY

Steel frames are rated for high snow and wind loads, making your investment last.

### 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.

Two fish tanks allow for ongoing production and harvesting of edible fish such as tilapia, catfish, or 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 from the fish for remixing into a natural fertilizer and soil amendment for your outdoor farm, house plants or for reuse in the aquaponic system.

### EFFICIENT DESIGN

The farm layout maximizes plant production while providing easy walkways. A plant nursery and wash station creates a convenient work area inside the greenhouse.



## + Hybrid **AQUAPONICS SYSTEMS**



Ceres Greenhouse Solutions is an industry leader in advanced, high-efficiency greenhouses. We work closely with Colorado Aquaponics to integrate proven aquaponics systems into high-performance greenhouses.

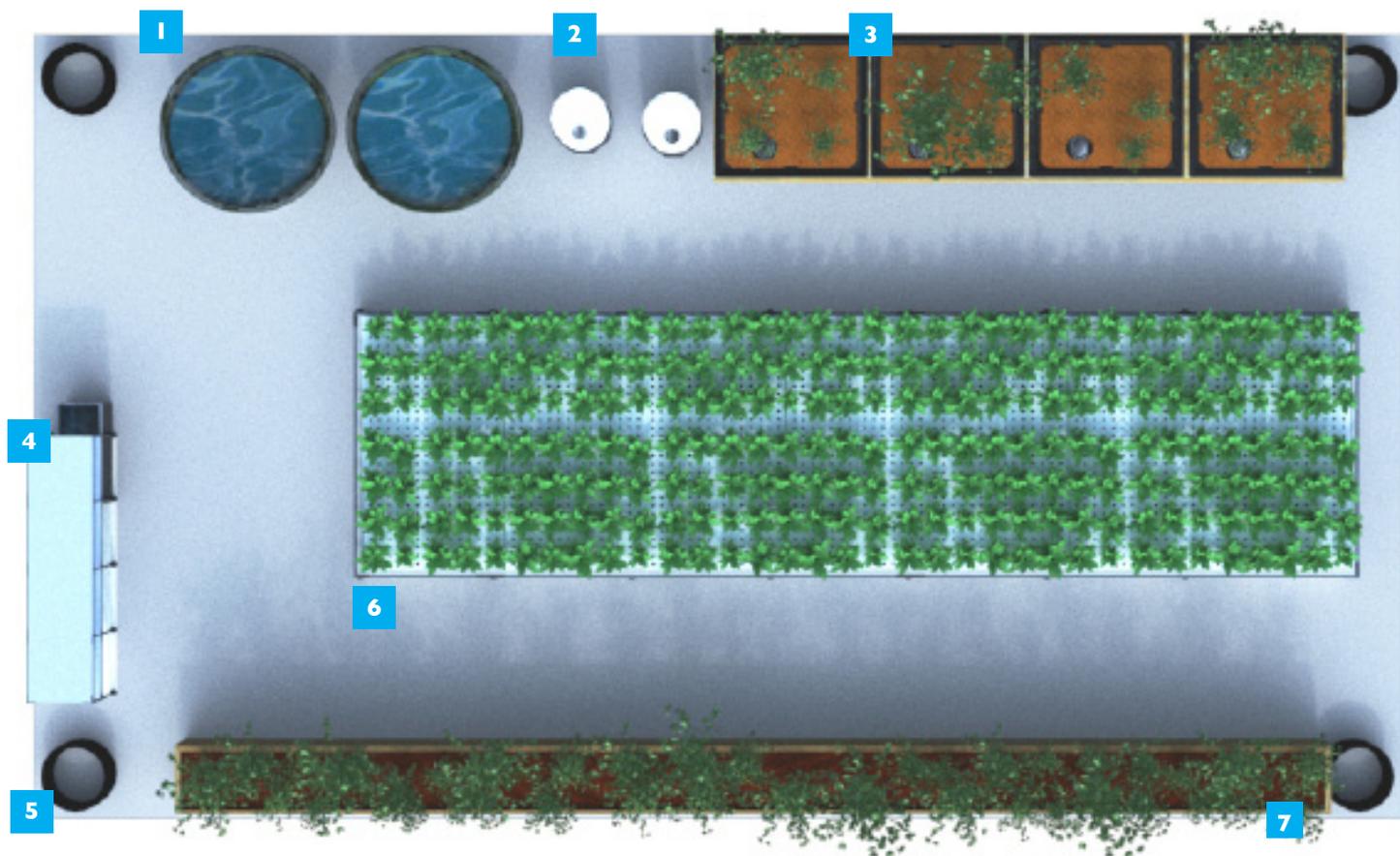
JD and Tawnya Sawyer own Colorado Aquaponics, The Aquaponic Source and Flourish Farms, a 3,000 sq. ft. aquaponics greenhouse in Denver, Colorado. With their extensive industry experience, they help individuals and communities design and operate abundant aquaponic farms around the world.



**COLORADO  
AQUAPONICS**

# PRE-ENGINEERED AQUAPONICS GREENHOUSES

Floor plan of a 23' x 40' Ceres Aquaponic greenhouse



- 1** Two 300 gallon fish tanks
- 2** Water filtration system
- 3** Media beds for fruiting crops (64 sq. ft.)
- 4** Seedling nursery system
- 5** GAHT™ System system heating / cooling pipes
- 6** Deep water culture beds (225 sq. ft.)
- 7** Wicking beds for root crops

*“Aquaponics and passive solar greenhouses enable truly sustainable year-round food production. With the right system and the right structure, you can have a high-production, self-sufficient growing environment.”*

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