CURRENT CULTURE H2O®

LEADERS IN HYDROPONICS
SINCE 2006

Product Guide

The Future Of Cultivation

Why Hydroponics?

Hydroponics is widely recognized as the most productive and efficient cultivation method in the world for growing food, flowers and medicinal crops. When properly automated, hydroponic methods reduce associated labor and improve production efficiency, resulting in more frequent crop turns and higher output per square foot than traditional methods. When integrated into a Controlled Environment Agriculture (CEA) environment, hydroponic cultivation methods provide unmatched crop performance and production.

Faster Growth Rates

Water and nutrients are available to plants for immediate uptake, increasing plant metabolism and spurring rapid growth.

Increased Yields & Quality

By optimizing irrigation efficiency, plants are able to reach their full genetic potential, resulting in maximum active compound production and essential oil output.

Reduced Labor

Hydroponics is inherently well suited for automation, making repeatable processes more reliable and efficient, reducing the need for hands on labor.

Improved Efficiency

By instituting an organized approach, teaming well executed work flow and automation, hydroponics affords unmatched efficiency for cultivation applications ranging from residential to commercial in scale.

Who Is Current Culture H2O?

Cultivating Hydroponic Evolution

Current Culture H2O is a California-based hydroponics manufacturer, specializing in advanced water culture methods for residential and professional Controlled Environment Agricultural (CEA) applications.

Established in 2006, CCH2O has been a trusted provider of its patented recirculating deep water culture systems and pure mineral salt-based plant nutrients for hydroponic cultivation.

Having a well-established customer base of successful growers, Current Culture H2O is proud to be a part of cutting-edge CEA and Greenhouse projects throughout the world.

With a number of thought-leading hydroponic innovations in the R&D pipeline and a rapidly growing network of industry partners, CCH2O is committed to playing a leading role as global markets turn to hydroponics to feed the world's growing population.

Cultivation Solutions for the Modern Grower

The Components of Success

Residential
Productive Home Growing
Easy-to-use, plug and play systems and plant nutrients make cultivating high quality fruits and flowers simple.

Professional
Differentiate your cultivation facility, reduce labor and increase yields with CCH2O's proven cultivation approach.

Commercial
We understand the complexities and challenges of operating a large-scale cultivation facility.
With decades of experience, you can count on clean and consistent yields with maximum ROI.

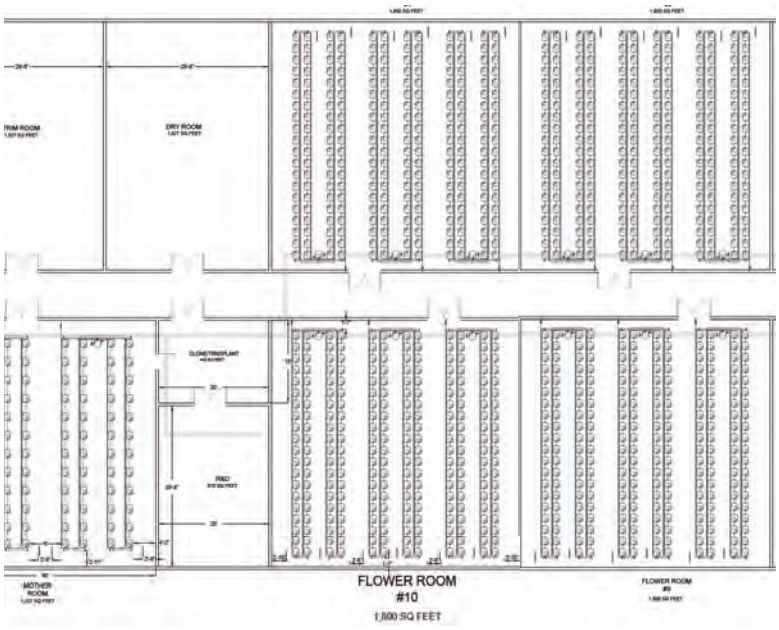
Let Our Experts Help You Maximize Your Results

Maximize Available Square Footage

Hydroponic System Layout
Thoughtfully designed system layouts are available for professional and commercial applications to optimize work flow and productivity.

Water Management Considerations
General recommendations and source points for water management and fertigation to support hydroponic systems within professional and commercial facilities.

Operational Insights and Support
The team at CCH2O provides professional technical and logistical support to help optimize operational efficiencies by providing specific SOP's and resources to keep production costs low and profits high.



Controlled Environment Agriculture

Committed to Innovating Hydroponic Systems and Methods to Make Cultivating More Efficient and Productive.

CURRENT CULTURE H2O
SINCE 2006
CULTIVATING HYDROPONIC EVOLUTION

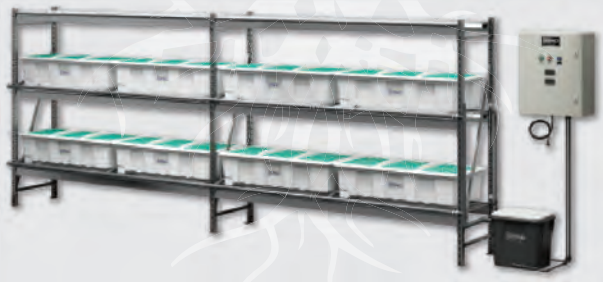
CLEAR LINE™

Hydroponic Mineral De-Scaler

Pgs.11 & 12

Aeroponic Systems

High-Pressure Aeroponic Cloning System



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DWC Hydroponic Systems

SOLO COMM

Professional DWC System

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Water Management

Hydro Frost Water Chillers

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Cultured Solutions®

Premium Hydroponic Nutrients

RESIDENTIAL · PROFESSIONAL · COMMERCIAL

First introduced to the hydroponics market in 2012, Cultured Solutions Nutrients have proven to be the industry's cleanest, most effective fertilizers for Hydroponic Cultivation.

Cultured Solutions nutrients are formulated with the purest mineral salts, providing a balanced, highly-soluble nutrient solution for hydroponic cultivation. All Cultured Solutions ® nutrients are carefully blended and ready to use, ensuring consistent results, time and time again.

Proven Formulations

- Crystal Clear Liquid Blends
- Sterile, Free of Organic and Microbial Contaminants
- Free of Harmful PGR's, BPA's and Dyes

Quality Assured

- Extensive QC and Performed During Batching
- Refined Blending SOPs for Consistency
- Ultra Filtered Blends Deliver Predictable Results

Simple to Use

- No Pre-Mixing of Powders Required
- Compatible with All Fertigation Systems
- pH Stable, Remains Soluble in All Conditions

PART OF THE PROVEN PRODUCTION APPROACH

Award-Winning Results

Produces Elevated Terpene Profiles

Tests Clean

Facility Proven

Used in Commercial Facilities Worldwide

Trusted By Professional Cultivators

Cost Effective

Stable, Highly Concentrated Blends

Bulk Pricing Available

Leaders in Hydroponics

Premium Liquid Fertilizers or Dry Powders?

Hazard Assessment

Unfortunately, there are several unforeseen hazards posed when working with dry powders. One of the most pervasive being that handling dry salts exposes cultivation staff to an array of harmful V.O.C.'s and particulates.

To mitigate these hazards, purpose built mixing areas are required with high-capacity ventilation and specialized equipment and highly trained personnel to ensure consistency. Considering the number of hazards and potential for error associated with the blending process, the practicality and cost savings afforded by blending dry salts has become a source of debate.

Embracing Change

Hydroponic growers are often led to believe that to remain competitive and efficient in today's markets they need to move away from liquid fertilizer blends and embrace dry fertilizers. Reasoning ranges from the associated cost savings to the perceived burden of the handling and storing of liquid blends.

Considering liquid fertilizer blends are essentially dry mineral salts and micro chelates blended in water, it would seem reasonable that dry powders are a superior choice. Right?

Quality Counts

Not surprisingly, many cultivators are preferring to use refined liquid blends as opposed to dry fertilizers. Premium liquid fertilizers provide a much cleaner and more effective fertilizer, resulting in cleaner irrigation equipment and better-quality crops.

As markets continue to mature, professional growers are recognizing the value of high-quality liquid formulations to assure the health of cultivation staff, consistent production and repeatable results.

Nutrients

VEG A/B

2-Part Premium Vegetative Nutrient

Cultured Solutions® VEG A & B provides a clean, pH stable blend of primary and secondary minerals to encourage rapid vegetative growth. Formulated for applications ranging from field to greenhouse, Veg A & B deliver results.

CODE	PRODUCT DESCRIPTION
CSVEGAQT	Cultured Solutions Veg A Qt
CSVEGAGAL	Cultured Solutions Veg A Gal
CSVEGA2.5	Cultured Solutions Veg A 2.5 Gal
CSVEGA5	Cultured Solutions Veg A 5 Gal
CSVEGA15	Cultured Solutions Veg A 15 Gal
CSVEGA55	Cultured Solutions Veg A 55 Gal
CSVEGBQT	Cultured Solutions Veg B Qt
CSVEGBGAL	Cultured Solutions Veg B Gal
CSVEGB2.5	Cultured Solutions Veg B 2.5 Gal
CSVEGB5	Cultured Solutions Veg B 5 Gal
CSVEGB15	Cultured Solutions Veg B 15 Gal
CSVEGB55	Cultured Solutions Veg B 55 Gal

BLOOM A/B

2-Part Premium Bloom Nutrient

Cultured Solutions® BLOOM A & B is a full spectrum, mineral based nutrient formulated to provide all the macro and micro nutrients required during reproductive growth and flowering. Blends are clean and sterile with no inclusion organic or microbial contents.

CODE	PRODUCT DESCRIPTION
CSBLOOMAQT	Cultured Solutions Bloom A Qt
CSBLOOMAGAL	Cultured Solutions Bloom A Gal
CSBLOOMA2.5	Cultured Solutions Bloom A 2.5 Gal
CSBLOOMA5	Cultured Solutions Bloom A 5 Gal
CSBLOOMA15	Cultured Solutions Bloom A 15 Gal
CSBLOOMA55	Cultured Solutions Bloom A 55 Gal
CSBLOOMBQT	Cultured Solutions Bloom B Qt
CSBLOOMBGAL	Cultured Solutions Bloom B Gal
CSBLOOMB2.5	Cultured Solutions Bloom B 2.5 Gal
CSBLOOMB5	Cultured Solutions Bloom B 5 Gal
CSBLOOMB15	Cultured Solutions Bloom B 15 Gal
CSBLOOMB55	Cultured Solutions Bloom B 55 Gal

COCO CAL

Calcium Magnesium Supplement

Cultured Solutions® COCO CAL is formulated to provide the ideal ratio of Calcium, Magnesium and Iron in solution. Designed for use in all phases of plant growth, Coco Cal ensures crops remain free of deficiencies and highly productive.

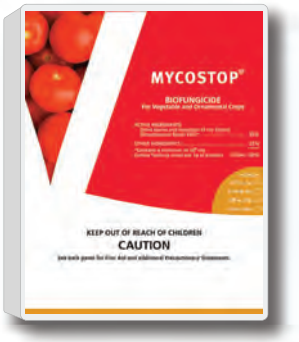
CODE	PRODUCT DESCRIPTION
CSCOCOCALQT	COCO Cal Qt
CSCOCOCALGAL	COCO Cal Gal
CSCOCOCAL2.5	COCO Cal 2.5 Gal
CSCOCOCAL5	COCO Cal 5 Gal
CSCOCOCAL15	COCO Cal 15 Gal
CSCOCOCAL55	COCO Cal 55 Gal

BUD BOOSTER - MID

Flower Formation

Cultured Solutions® BUD BOOSTER – Supplies Sulfur and Magnesium to assist in the synthesis of essential amino acids. This encourages the production of complex sugars and starches, crucial during fruit and flower formation.

CODE	PRODUCT DESCRIPTION
CSMIDQT	Bud Booster Mid Qt.
CSMIDGAL	Bud Booster Mid Gal
CSMID2.5	Bud Booster Mid 2.5 Gal
CSMID5	Bud Booster Mid 5 Gal
CSMID15	Bud Booster Mid 15 Gal
CSMID55	Bud Booster Mid 55 Gal



MYCOSTOP™

Biofungicide

CCH2O Recommended Rootzone IPM for Recirculating Water Culture Applications.

Code	Product Description
Mycostop2	Mycostop 2 Gram (Treats 200 Gallons)
Mycostop5	Mycostop 5 Gram (Treats 500 Gallons)

Insights

Feeding Schedule

CULTURED SOLUTIONS®

PREMIUM HYDROPONIC NUTRIENTS

LINK TO ONLINE NUTRIENT CALCULATOR

RE-CIRCULATING HYDRO NORMAL STRENGTH UNDER CURRENT® , DWC/RDWC, AEROPONICS, NFT

	PLANTEST	VEG				BLOOM								FLUSH
	WEEK	1	2	3	4	1	2	3	4	5	6	7	8	2-3DAYS
	UNSTRUCTURE	5	5	5	5	5	5	5	5	5	5	5	5	2-3
	COCO CRUNCH	2	2	2	2	2	2	2	2	2	2	2	2	
	VEG A	0.5	1	2	2.5									
	VEG B	0.5	1	2	2.5									
	BLOOM A					3.5	4.5	6	6	7	6	4	3	
	BLOOM B					3.5	4.5	6	6	7	6	4	3	
	BUD BOOSTER					0.5	1.5	2	3	3.5	3	2	1.5	
	MYCOSTOP™	Per 1 GRAM 100 Gal		Per 1 GRAM 100 Gal		Per 1 GRAM 100 Gal		Per 1 GRAM 100 Gal		Per 1 GRAM 100 Gal		Per 1 GRAM 100 Gal		
	PPM 500	100	175	300	325	425	500	600	650	700	650	450	400	0-100
	PPM 700	140	245	420	455	595	700	840	910	980	910	630	560	0-100
	EC	0.2	0.3	0.6	0.6	0.8	0.8	1.2	1.3	1.4	1.2	0.9	0.8	0.1
	pH	6	6	5.9	5.9	5.9	5.9	5.9	5.8	5.8	5.8	5.8	5.8	5.7
	TEMP	68°	68°	68°	68°	68°	68°	68°	68°	68°	68°	68°	65°	62°
	ORP	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400
	DO MINIMUM	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L

DRAIN TO WASTE NORMAL STRENGTH ROCKWOOL, COCO, PRO-MIX & SOILESS

	PLANTEST	VEG				BLOOM								FLUSH
	WEEK	1	2	3	4	1	2	3	4	5	6	7	8	2-3DAYS
	CLEARLINE™	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	3-7
	COCO CRUNCH	3	3	3	3	3	3	3	3	3	3	3	3	
	VEG A	4	4	6	6									
	VEG B	4	4	6	6									
	BLOOM A					8	8	9	9	9	8	4	3	
	BLOOM B					8	8	9	9	9	8	4	3	
	BUD BOOSTER							4	5	9	10	12	10	
	PPM 500	450	450	600	600	800	800	1000	1050	1100	1050	1000	750	0-100
	PPM 700	630	630	840	840	1120	1120	1400	1470	1540	1470	1050	700	0-100
	EC	0.9	0.9	1.2	1.2	1.6	1.6	2	2.1	2.2	2.1	1.5	1	0.1
	pH	6	6	5.9	5.9	5.9	5.9	5.9	5.8	5.8	5.8	5.8	5.8	5.7
	TEMP	68°	68°	68°	68°	68°	68°	68°	68°	68°	68°	68°	65°	62°
	ORP	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400	350-400
	DO MINIMUM	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L	8 mg/L

INJECTION RATIOS

FOR FERTIGATION AND PROPORTIONAL MIXERS

mL/gal	Injection Rate
1	1 : 3840
2	1 : 1920
3	1 : 1280
4	1: 960
5	1 : 770
6	1 : 640
7	1 : 550
8	1 : 480
9	1 :430
10	1 : 385

GENERAL GUIDELINES

- Do not combine any products in undiluted form.
- Use clean measuring instruments - do not put anything into the bottle.
- Store closed in original packaging at a temperature between 45°F and 85°F.

USEFUL CONVERSIONS

1 tsp	= 5mL
1 tbsp	= 15mL
1 oz	= 30 mL
1 qt	= 946 mL
1 gal	= 3.785 L
1 gal	= 120 oz

GENERAL ENVIRONMENTAL TARGETS

PLANT GROWTH STAGE	VEG				BLOOM								FLUSH
Weeks	1	2	3	4	1	2	3	4	5	6	7	8	3 to 7 Day Flush
Temp - Day (F°)	86°	84°	82°	80°	79°	79°	78°	77°	76°	76°	75°	75°	70°
Temp - Night (F°)	70°	70°	70°	69°	69°	69°	68°	68°	68°	67°	66°	65°	63°
Relative Humidity - Day	75%	75%	70%	70%	65%	65%	65%	63%	63%	60%	60%	50%	50%
Relative Humidity - Night	60%	60%	60%	60%	60%	60%	58%	58%	58%	56%	56%	54%	50%
VPD - Day (kPa)	1/1.1	1/1.1	1/1.1	1.1/1.2	1.2	1.2	1.15/1.2	1.2	1.2	1.2/1.3	1.2/1.3	1.4/1.5	1.5
VPD - Night (kPa)	1	1	1	1	1	1	1	1	1	1	1	1	1
CO2 (ppm)	1500	1500	1500	1400	1350	1350	1250	1200	1100	1000	900	800	500
PPFD µmol/m²/s	300-600	300-600	300-600	300-600	600-900	600-900	600-900	600-900	600-900	600-900	600-900	600-900	600-900

What Are The Benefits Of Hypochlorous Acid?

Clean Lines Matter

Hydroponic irrigation methods such as pressure compensated drip, depend heavily on unobstructed lines and emitters for plants to stay hydrated and fertilized. Because drip applications operate intermittently, crops are kept dangerously close to dehydration on a daily basis.

A common problem with drip systems is the buildup of calcification and biofilms within lines and drip emitters. This issue occurs when minerals precipitate out of solution, and if left unchecked, this buildup can restrict flow and ultimately lead to irrigation failure and dehydration.

Stress Pressures

If encountered, these blockages can lead to inconsistent flow rates throughout a crop lending to problems with pests and diminished yields. In more extreme scenarios a cascading array of issues, including the potential for crop failure can occur.

To keep irrigation systems operating properly, cultivators commonly turn to periodic line purges, performed between cropping cycles. Though somewhat effective, these line shocks involve the use of hazardous acids and can only be performed post crop cycle. Unfortunately, there are inherent dangers in handling these chemicals for cultivation staff as well as potential crop damage if irrigation lines are not properly purged.

Crop Insurance

Experienced CEA growers have turned to Hypochlorous Acid for decades to provide a cost-effective means for mitigating potential irrigation issues.

HOCL is safe to handle, pH neutral and easily integrates into standard feeding programs, making it one of the most widely used oxidizers in the hydroponics industry.

Hypochlorous Acid

CLEAR LINE™

RESIDENTIAL | PROFESSIONAL | COMMERCIAL

Drip System Descaler

Keeps Irrigation Lines & Drip Emitters Free from Mineral Build-Up

PREDICTABLE RESULTS
Reduces mineral build-up and biofilms in pressure compensating drip emitters, assuring precision delivery of the nutrient solution.

IMPROVE ROI
Increases the operational life span of irrigation plumbing saving money on maintenance and replacement equipment

CROP CONSISTENCY
Ensures nutrient solution remains highly soluble, providing optimal availability for plant uptake.

ENHANCED H2O
Improves overall water quality by increasing Oxidation Reduction Potential (ORP).

NEUTRAL CHEMISTRY
Compatible with all fertilizer programs, without affecting the pH of the nutrient solution.

SAFE TO USE
Non-corrosive and non-hazardous to handle, creating a safer work environment for cultivation staff.

COST EFFECTIVE
Highly concentrated Hypochlorous Acid with the lowest cost of use, ideal for commercial scale facilities.

CLEAR LINE™

Drip System Descaler

Cultured Solutions® Clear Line keeps drip irrigation lines and emitters clean and free of mineral deposits throughout cropping cycles. Active Hypochlorous Acid Concentration @ +/- 1500 ppm. Implementation of Clear Line protects drip irrigation systems reducing costly repair and replacement of components.

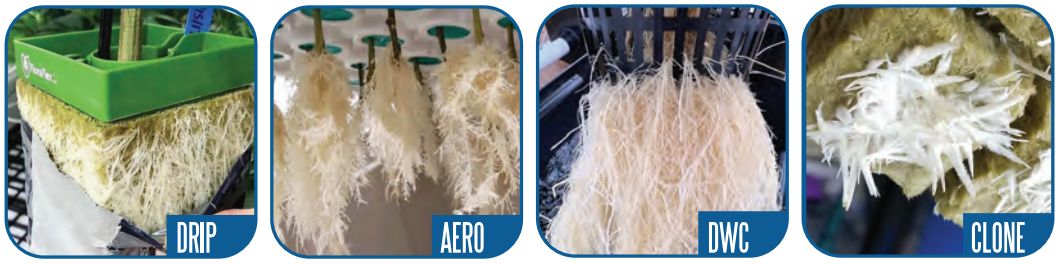
CODE	PRODUCT DESCRIPTION
COMM-CLEARLINE-GAL	Clearline-Gal Clear Line - Professional Strength - Hypochlorous Acid
COMM-CLEARLINE-2.5GAL	Clearline-2.5Gal Clear Line - Professional Strength - Hypochlorous Acid
COMM-CLEARLINE-15GAL	Clearline-15Gal Clear Line - Professional Strength - Hypochlorous Acid
COMM-CLEARLINE-15GAL	Clearline-15Gal Clear Line - Professional Strength - Hypochlorous Acid
COMM-CLEARLINE-55GAL	Clearline-55Gal Clear Line - Professional Strength - Hypochlorous Acid

UC ROOTS

Hydroponic Mineral Descaler

Cultured Solutions® UC Roots reduces mineral deposits in hydroponic systems, substrate and irrigation equipment. Active Hypochlorous Acid Concentration @ +/- 400 ppm Ideal for all hydroponics applications including: DWC/RDWC, Rockwool, NFT, Ebb/Flow, Drip and substrate based Re-circulating or Drain to Waste.

CODE	PRODUCT DESCRIPTION
CSUCROOTSPT	UC Roots Pint
CSUCROOTSQT	UC Roots Quart
CSUCROOTSGAL	UC Roots Gal
CSUCROOTS2.5	UC Roots 2.5 Gal
CSUCROOTS5	UC Roots 5 Gal
CSUCROOTS15	UC Roots 15 Gal
CSUCROOTS55	UC Roots 55 Gal



CCH2O Article Subject:

Why Recirculating Water Culture?

Ditch the Substrate

Eliminating rockwool or other soil-less mixes cuts down on expense while improving operational efficiency. Post-harvest, rockwool requires growers to dispose of voluminous, heavy, non-compostable substrate to landfills. While RWC methods result in very little associated waste, most of which being either compostable, or recyclable.

Growing substrates can inhibit roots if watering events are not properly scheduled. While RWC growing allows for balanced nutrient solution to reach plant roots directly24/7. No crop steering needed. Plants are able to uptake minerals more efficiently, requiring lower fertilizer concentrations while producing stellar results.

Hydroponic Success

It's widely agreed amongst cultivators that hydroponic growing produces better results and more predictable outcomes vs conventional methods. There are a variety of effective hydroponic methods practiced, but above all others, Recirculating Water Culture (RWC) has set itself apart as the most efficient method of all.

Unlike substrate based hydroponic systems, RWC differs in several primary ways, the most obvious being the minimal substrate necessary for cultivation which reduces associated cost of inputs and waste stream. But more importantly, RWC recirculates nutrient solutions vs being drained to waste (DTW), resulting in more conservative use of water.

RWC = ROI

When operating RWC, transitioning from propagation to fruiting and flowering is streamlined, improving plant flow and allowing growers to spend more time on cultural practices. This shift in focus results in better crop awareness and maximum productivity.

Through the implementation of proper scheduling and automation, cultivation becomes a repeatable routine with less guesswork. Ultimately, streamlining processes, improving workflow and reducing associated labor.

Agriculture is evolving, don't miss out, join the hydroponic revolution!

The Proven Production Approach

CCH2O offers comprehensive cultivation strategies for residential and commercial facilities of any scale. Our simple A to Z approach to cultivation focuses on reducing labor, streamlining workflow, and improving operational efficiency. Current Culture H2O's Proven Production Approach results in more time, less worry and higher ROI.

Mothers — Every 2-3 Weeks

Robust donor plants are grown in Under Current XL13 or XXL13 systems.
Once established 50-100+ cuttings can be taken from each mother plant.

Clone/Pre-Veg — ~2-3 Weeks

Fresh cuttings populate High-Pressure Aeroponic Cloning (HPAC) systems and start producing rooted cuttings in 14-21 days (105 clones per chamber). Once rooted, clones can stay in the HPAC systems for one additional week of pre-veg growing.
Extra large clones can be spaced wider to give them even more room (~52 clones per chamber).

Transplant — <1 Hour

The entire clone chamber lid with 52-105 plantlets is moved to a battery-powered Aeroponic Transfer Cart. This cart wheels directly into the flower space for easy transplant into under current systems with "media-less" Net Pot Inserts.

Veg/Flower — ~2 Weeks veg+flower

Well rooted plantlets are transplanted directly into the flower systems/rooms. Plants veg for an additional 10-14 days before transitioning into flower.

Reduced Transplant Shock/Delay
Less transplant steps, fewer touches

More Efficient Plant Flows
Simplified Process, Better Results

Reduced Labor
Fewer transplanting steps make work easier

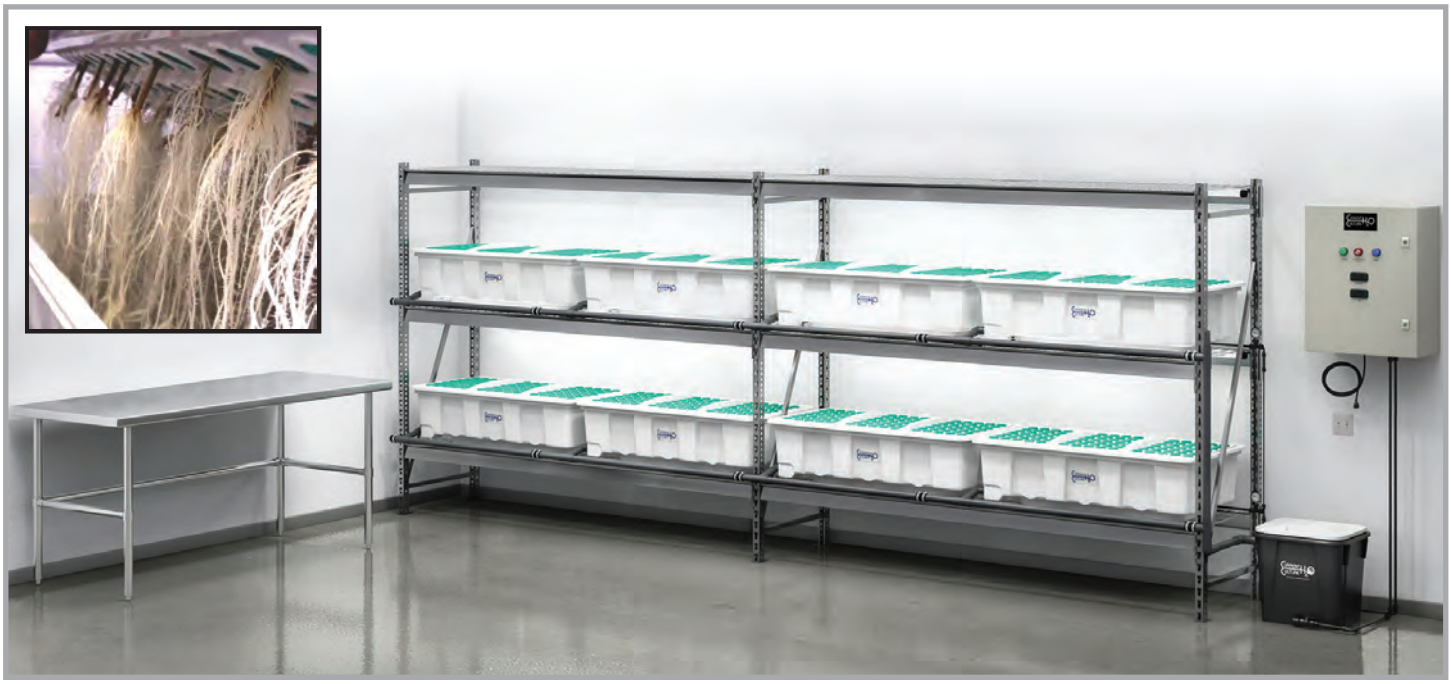
No Vegetative Rooms Needed
More Flower Rooms Means More Profits

Aeroponic Systems

HPAC

High-Pressure Aeroponic Cloning System

PROFESSIONAL COMMERCIAL



Modular & Scalable Commercial Propagation

Produce high quality, bare-root cuttings with the CCH2O High-Pressure Aeroponic Cloning (HPAC) System. The HPAC system encourages root growth with increased available dissolved oxygen while maintaining the proper hydration of the stem tissue. Designed to maximize cultivation square footage, this versatile commercial propagation system will meet any facility's growing needs.

Accelerated Root Growth

Increase Cultivation ROI

Improve Turnaround Time

Reduce Transplant Labor

420-SITE
2 x 8' Two-Tier Rack

840-SITE
2 x 16' Two-Tier Rack

1,260-SITE
2 x 24' Two-Tier Rack

1,680-SITE
2 x 32' Two-Tier Rack

PRODUCE BETTER CLONES
High-pressure aeroponic clones have a superior root structure

REDUCE VEG TIMES
Larger clones with more fine root hairs transplant faster

CLEANER STARTS
Avoid bringing in harmful cutting stock with pests and disease

ELIMINATE PROPAGATION MEDIA
Save on production costs and labor

REDUCE WATER & NUTRIENT USAGE
High-pressure aeroponics uses less water and nutrients compared to media based propagation methods

MAXIMUM OXYGEN AVAILABILITY
Increased available oxygen accelerates nutrient absorption at the root surface

EASY SYSTEM AUTOMATION
Easily employ full nutrient dosing to control pH, EC and temp of the cloning solution

MODULAR & SCALABLE
Use on rolling benches or stack modules vertically to increase production

OPTIMIZED SPACING
Wide plant spacing allows growers to take larger more vigorous cuttings

REUSABLE COLLARS
Easy to sterilize reusable clone collars included

CCH2O HP Aero Cloner:
The Most Efficient Style of Soil-less Hydroponic Cultivation Available. Capable of Producing Healthy Rooted Cuttings Every 14-21 days.

PLUG & PLAY SYSTEMS

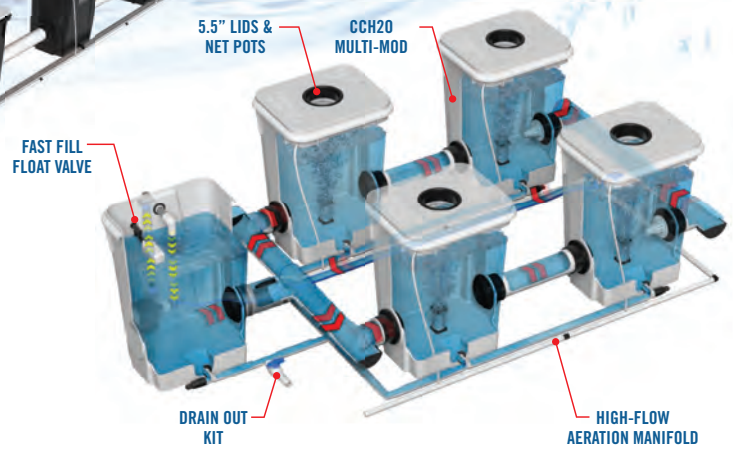
CCH2O HPA CLONING SYSTEMS - COMPLETE (INCLUDES 2-TIER RACK AND LIGHTING)	PRODUCT DESCRIPTION
COMM-HPA-CLONER-210-COM	CCH2O High-Pressure Aeroponic Cloning System - Includes 2-Tier Racks And LED Lamps - 210 Site
COMM-HPA-CLONER-420-COM	CCH2O High-Pressure Aeroponic Cloning System - Includes 2-Tier Racks And LED Lamps - 420 Site
COMM-HPA-CLONER-630-COM	CCH2O High-Pressure Aeroponic Cloning System - Includes 2-Tier Racks And LED Lamps - 630 Site
COMM-HPA-CLONER-840-COM	CCH2O High-Pressure Aeroponic Cloning System - Includes 2-Tier Racks And LED Lamps - 840 Site
COMM-HPA-CLONER-1050-COM	CCH2O High-Pressure Aeroponic Cloning System - Includes 2-Tier Racks And LED Lamps - 1050 Site
COMM-HPA-CLONER-1260-COM	CCH2O High-Pressure Aeroponic Cloning System - Includes 2-Tier Racks And LED Lamps - 1260 Site
COMM-HPA-CLONER-1470-COM	CCH2O High-Pressure Aeroponic Cloning System - Includes 2-Tier Racks And LED Lamps - 1470 Site
COMM-HPA-CLONER-1680-COM	CCH2O High-Pressure Aeroponic Cloning System - Includes 2-Tier Racks And LED Lamps - 1680 Site
CCH2O HPA CLONING SYSTEMS - BASE (EXCLUDES 2-TIER RACK AND LIGHTING)	**PRODUCT DESCRIPTION**
COMM-HPA-CLONER-210-BASE	CCH2O High-Pressure Aeroponic Cloning System - *Excludes 2-Tier Racks And LED Lamps - 210 Site
COMM-HPA-CLONER-420-BASE	CCH2O High-Pressure Aeroponic Cloning System - *Excludes 2-Tier Racks And LED Lamps - 420 Site
COMM-HPA-CLONER-630-BASE	CCH2O High-Pressure Aeroponic Cloning System - *Excludes 2-Tier Racks And LED Lamps - 630 Site
COMM-HPA-CLONER-840-BASE	CCH2O High-Pressure Aeroponic Cloning System - *Excludes 2-Tier Racks And LED Lamps - 840 Site
COMM-HPA-CLONER-1050-BASE	CCH2O High-Pressure Aeroponic Cloning System - *Excludes 2-Tier Racks And LED Lamps - 1050 Site
COMM-HPA-CLONER-1260-BASE	CCH2O High-Pressure Aeroponic Cloning System - *Excludes 2-Tier Racks And LED Lamps - 1260 Site
COMM-HPA-CLONER-1470-BASE	CCH2O High-Pressure Aeroponic Cloning System - *Excludes 2-Tier Racks And LED Lamps - 1470 Site
COMM-HPA-CLONER-1680-BASE	CCH2O High-Pressure Aeroponic Cloning System - *Excludes 2-Tier Racks And LED Lamps - 1680 Site
CCH2O HPA CLONING SYSTEM EXPANSION KIT	**PRODUCT DESCRIPTION**
COMM-HPA-CLONER-EXPANSION-210	CCH2O Hpac System Expansion - *Excludes 2-tier Racks And LED Lamps - 210 Site
CCH2O HPA CLONING SYSTEM PARTS	**PRODUCT DESCRIPTION**
COMM-HPA-CLONER-COLLAR	CCH2O HPAC System - Permaclone Collar
COMM-HPA-PUMPSTATION-120V	CCH2O HPAC System - Pump Station - *Sold As Back Up Only - 120v
COMM-HPA-PUMPSTATION-240V	CCH2O HPAC System - Pump Station - *Sold As Back Up Only - 240v

RDWC Hydroponic Systems

Under Current®

Scalable Commercial Hydroponic System

RESIDENTIAL | PROFESSIONAL | COMMERCIAL



MADE IN USA

Superior Productivity and Quality with Reduced Labor

The patented Under Current® recirculating deep water culture (RDWC) system is the most proven and widely utilized Recirculating Deep Water Culture system on the planet.

Highly regarded for its unparalleled growth rates and for producing some of the world's finest fruits, flowers, and terpene profiles, the Under Current® is reliable, simple to operate and perfectly suited for residential, professional, and commercial facility applications.

Exceptional Quality
Tests Clean

Superior Extraction Yields
Stronger Terpene Profiles

Increased Efficiency
Accelerated Growth Rates

Rapid ROI
Increased Gross Profits

Predictable, Repeatable Results with Fewer Inputs and Less Waste

INCREASED YIELDS
Efficient nutrient uptake accelerates growth rates and increases flower production.

MORE CROP TURNS
Achieve 5-6+ harvests per year with reduced veg times, rapid transplanting, and simple sanitization protocols.

PROVEN NUTRIENT FORMULA
The Under Current® + Cultured Solutions® nutrients are a proven production approach trusted by professional growers.

REDUCED LABOR & MAINTENANCE
Lower nutrient concentrations and consistent pH/EC levels decrease nutrient change-outs and flushing.

AUTOMATION READY
Constant recirculation makes it easy to automate fill/drain cycles and add nutrient monitoring, dosing and fertigation.

LAYOUT VERSATILITY
Unlimited system configurations to outfit any cultivation space. 2, 3 and 4-row options. Up to 80-sites.

COMMERCIALLY SCALABLE
Centralize aeration, fertigation and water management for precise system control and visibility. *Design services available.

MODULAR DESIGN
Interchangeable components allow you to effortlessly add plant sites or change your system configuration as your operation grows.

PROFESSIONAL CONSTRUCTION
Durable greenhouse grade components designed to last in harsh cultivation environments.

PATENTED DESIGN
Thoughtful design with multiple patents: 9,277,696, 9,258,953, 8,915,016, 8,726,568, D858,345, D886,246

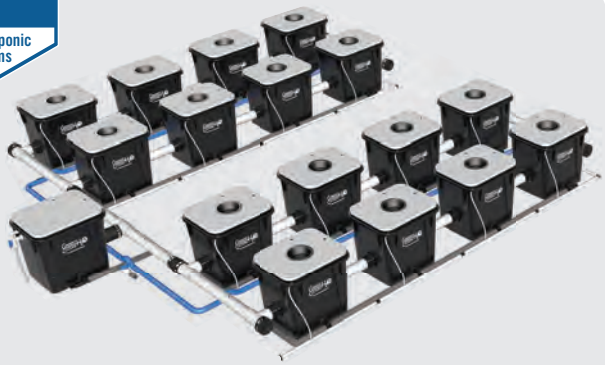
Proven Production Made Simple

Our high-performance hydroponic systems and premium plant nutrients are utilized in grow rooms and facilities throughout the world. This proven approach produces some of the most consistent, high quality hydroponic fruit and flower crops in production.

Nutrients

CULTURED SOLUTIONS®

UC Hydroponic Systems



UNDER CURRENT®

THE PROVEN PRODUCTION SYSTEM

RDWC Hydroponic Systems

UNDER CURRENT®


18" PLANT CENTERS


8 GALLON MULTI-MOD


2” SPIN TIGHT BULKHEADS


2'- 3'+ PLANT GROWTH

UNDER CURRENT® XL


25" PLANT CENTERS


8 GALLON MULTI-MOD


2” SPIN TIGHT BULKHEADS


3'- 4'+ PLANT GROWTH

UNDER CURRENT® XL13


30" PLANT CENTERS


13 GALLON MULTI-MOD


3” SPIN TIGHT BULKHEADS


5'- 6'+ PLANT GROWTH

UNDER CURRENT® XXL13


40" PLANT CENTERS


13 GALLON MULTI-MOD


3” SPIN TIGHT BULKHEADS


7'- 8'+ PLANT GROWTH

Under Current®

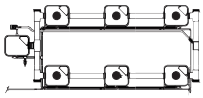
Optional Upgrades

Boneless Option

All "Boneless" **Under Current®** systems ship WITHOUT precut straight sections of piping and hose. Allowing for custom plant spacing but requiring additional labor.

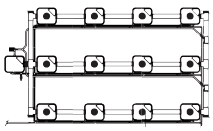
Remote Epicenter Option

All **Under Current®** systems are available with a "Remote Epicenter" option. This allows growers to place the Epicenter (Control Module) on the outside of their grow space or tent.



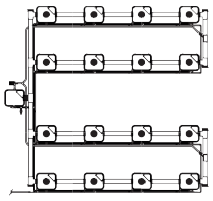
2 ROW UNDER CURRENT® STANDARD

8 GALLON			13 GALLON		
# OF SITES	18" CENTERS	25" CENTERS	# OF SITES	30" CENTERS	40" CENTERS
4	UC4	UC4XL	4	UC4XL13	UC4XXL13
6	UC6	UC6XL	6	UC6XL13	UC6XXL13
8	UC8	UC8XL	8	UC8XL13	UC8XXL13
12	UC12	UC12XL	12	UC12XL13	UC12XXL13
16	UC16	UC16XL	16	UC16XL13	UC16XXL13



3 ROW UNDER CURRENT® EVOLUTION

8 GALLON			13 GALLON		
# OF SITES	18" CENTERS	25" CENTERS	# OF SITES	30" CENTERS	40" CENTERS
9	UCE9	UCE9XL	9	UCE9XL13	UCE9XXL13
12	UCE12	UCE12XL	12	UCE12XL13	UCE12XXL13
18	UCE18	UCE18XL	18	UCE18XL13	UCE18XXL13
24	UCE24	UCE24XL	24	UCE24XL13	UCE24XXL13

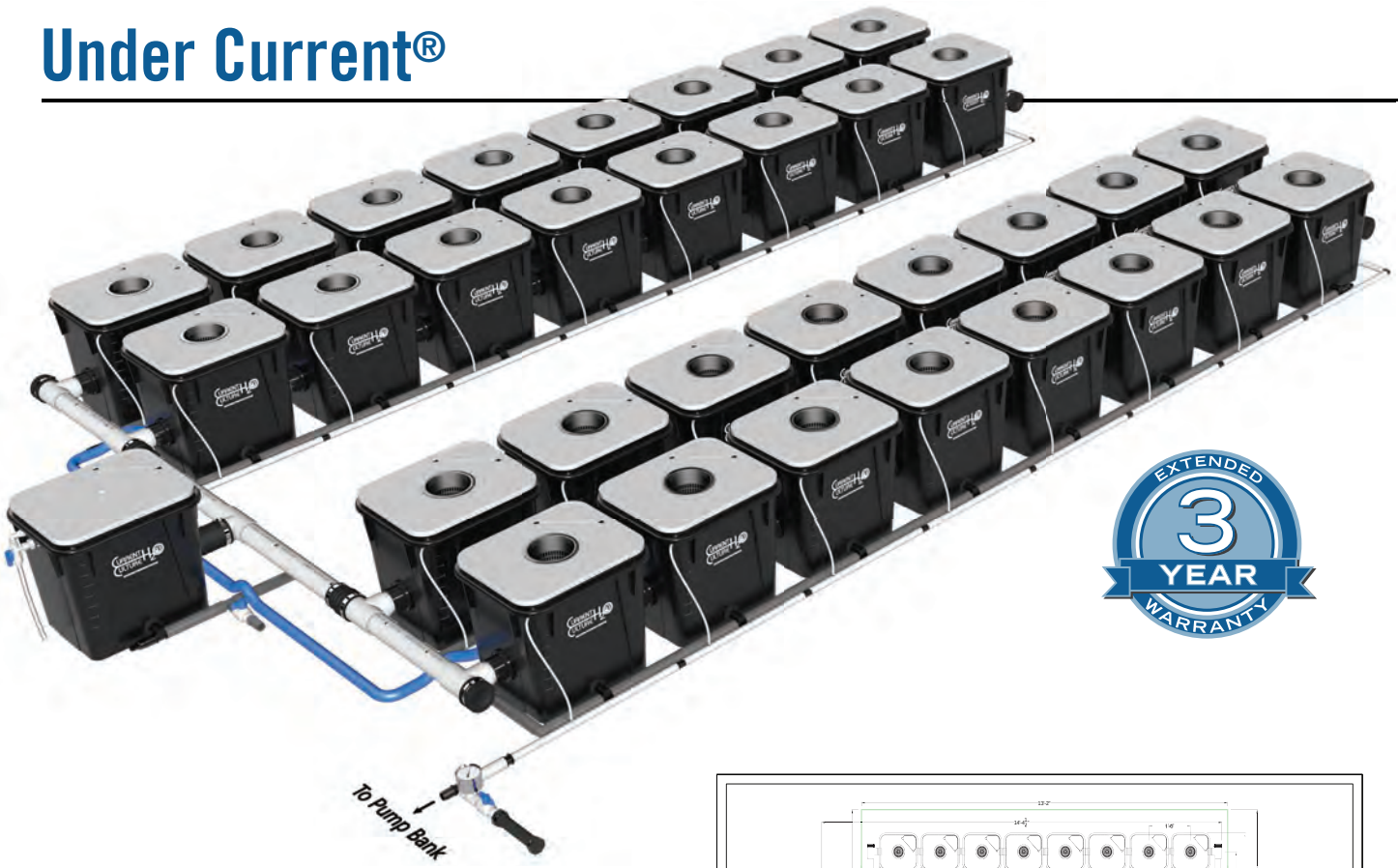


4 ROW UNDER CURRENT® DOUBLE BARREL

8 GALLON			13 GALLON		
# OF SITES	18" CENTERS	25" CENTERS	# OF SITES	30" CENTERS	40" CENTERS
16	UCDB16	UCDB16XL	16	UCDB16XL13	UCDB16XXL13
24	UCDB24	UCDB24XL	24	UCDB24XL13	UCDB24XXL13
32	UCDB32	UCDB32XL	32	UCDB32XL13	UCDB32XXL13

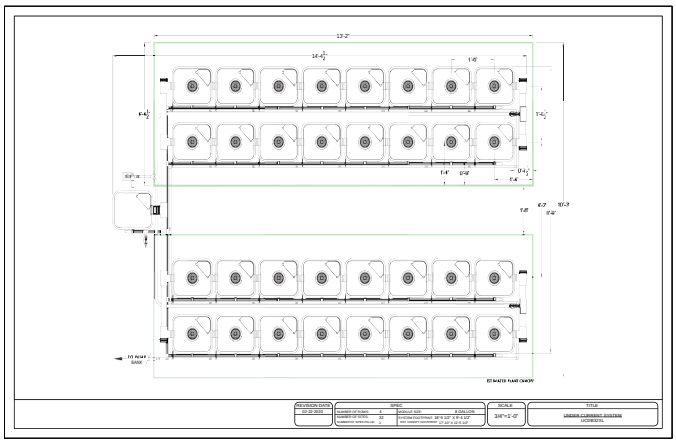
RDWC Hydroponic Systems

Under Current®



EXTENDED 3 YEAR WARRANTY

- Provides a Sea of Green Approach
- Suitable for Pre-veg Applications
- Requires 1-2 Week Veg Time



CAD Drawings available for all system configurations

18" PLANT CENTERS

8 GALLON MULTI-MOD

2” SPIN TIGHT BULKHEADS

2'- 3'+ PLANT GROWTH

UC4

UC6

UC8

UC12

UC16

UNDER CURRENT®

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UC4	Under Current 4	2'10.5" x 5'4.5" / 0.88m x 1.64m
UC6	Under Current 6	2'10.5" x 6'10.5" / 0.88m x 2.10m
UC8	Under Current 8	2'10.5" x 8'4.5" / 0.88m x 2.55m
UC12	Under Current 12	2'10.5" x 11'4.5" / 0.88m x 3.47m
UC16	Under Current 16	2'10.5" x 14'5" / 0.88m x 4.40m

UCE9

UCE12

UCE18

UCE24

UNDER CURRENT®

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UCE9	Under Current Evolution 9	4'7" x 6'10.5" / 1.4m x 2.10m
UCE12	Under Current Evolution 12	4'7" x 8'4.5" / 1.4m x 2.55m
UCE18	Under Current Evolution 18	4'7" x 11'4.5" / 1.4m x 3.47m
UCE24	Under Current Evolution 24	4'7" x 14'4.5" / 1.4m x 4.40m

UCDB16

UCDB24

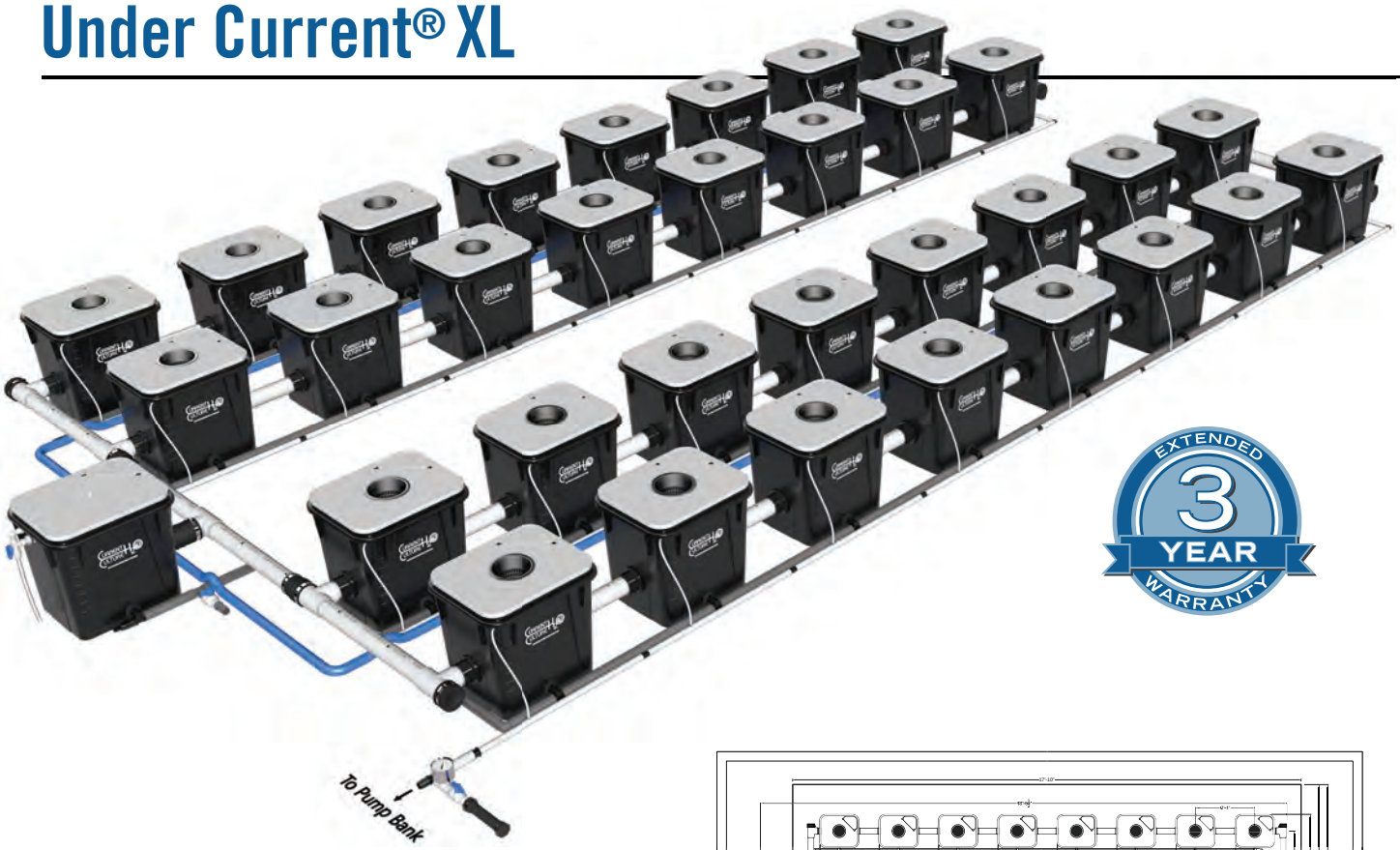
UCDB32

UNDER CURRENT®
DOUBLE BARREL

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UCDB16	Under Current Double Barrel 16	8'9" x 8'4.5" / 2.67m x 2.55m
UCDB24	Under Current Double Barrel 24	8'9" x 11'4.5" / 2.67m x 3.47m
UCDB32	Under Current Double Barrel 32	8'9" x 14'4.5" / 2.67m x 4.40m

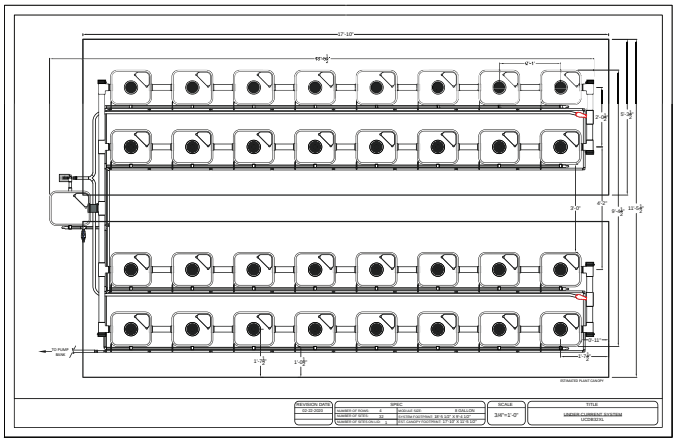
RDWC Hydroponic Systems

Under Current® XL



EXTENDED 3 YEAR WARRANTY

- Creates a Manageable, Productive Canopy
- Recommended System For "VIP" Approach
- Requires 2-3 Week Veg Time



CAD Drawings available for all system configurations

25" PLANT CENTERS

8 GALLON MULTI-MOD

2" SPIN TIGHT BULKHEADS

3'- 4'+ PLANT GROWTH

UC4XL

UC6XL

UC8XL

UC12XL

UC16XL

UNDER CURRENT® XL

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UC4XL	Under Current 4XL	3'2.5" x 5'11.5" / 0.98m x 1.82m
UC6XL	Under Current 6XL	3'2.5" x 8'0.5" / 0.98m x 2.45m
UC8XL	Uc8xl Under Current 8XL	3'2.5" x 10'1.5" / 0.98m x 3.09m
UC12XL	Uc12xl Under Current 12XL	3'2.5" x 14'3.5" / 0.98m x 4.36m
UC16XL	Uc16xl Under Current 16XL	3'2.5" x 18'5.5" / 0.98m x 5.63m

UCE9XL

UCE12XL

UCE18XL

UCE24XL

UNDER CURRENT®

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UCE9XL	Under Current Evolution 9XL	5'2.5" x 8'0.5" / 1.59m x 2.45m
UCE12XL	Under Current Evolution 12XL	5'2.5" x 10'1.5" / 1.59m x 3.09m
UCE18XL	Under Current Evolution 18XL	5'2.5" x 14'3.5" / 1.59m x 4.36m
UCE24XL	Under Current Evolution 24XL	5'2.5" x 18'5.5" / 1.59m x 5.63m

UCDB16XL

UCDB24XL

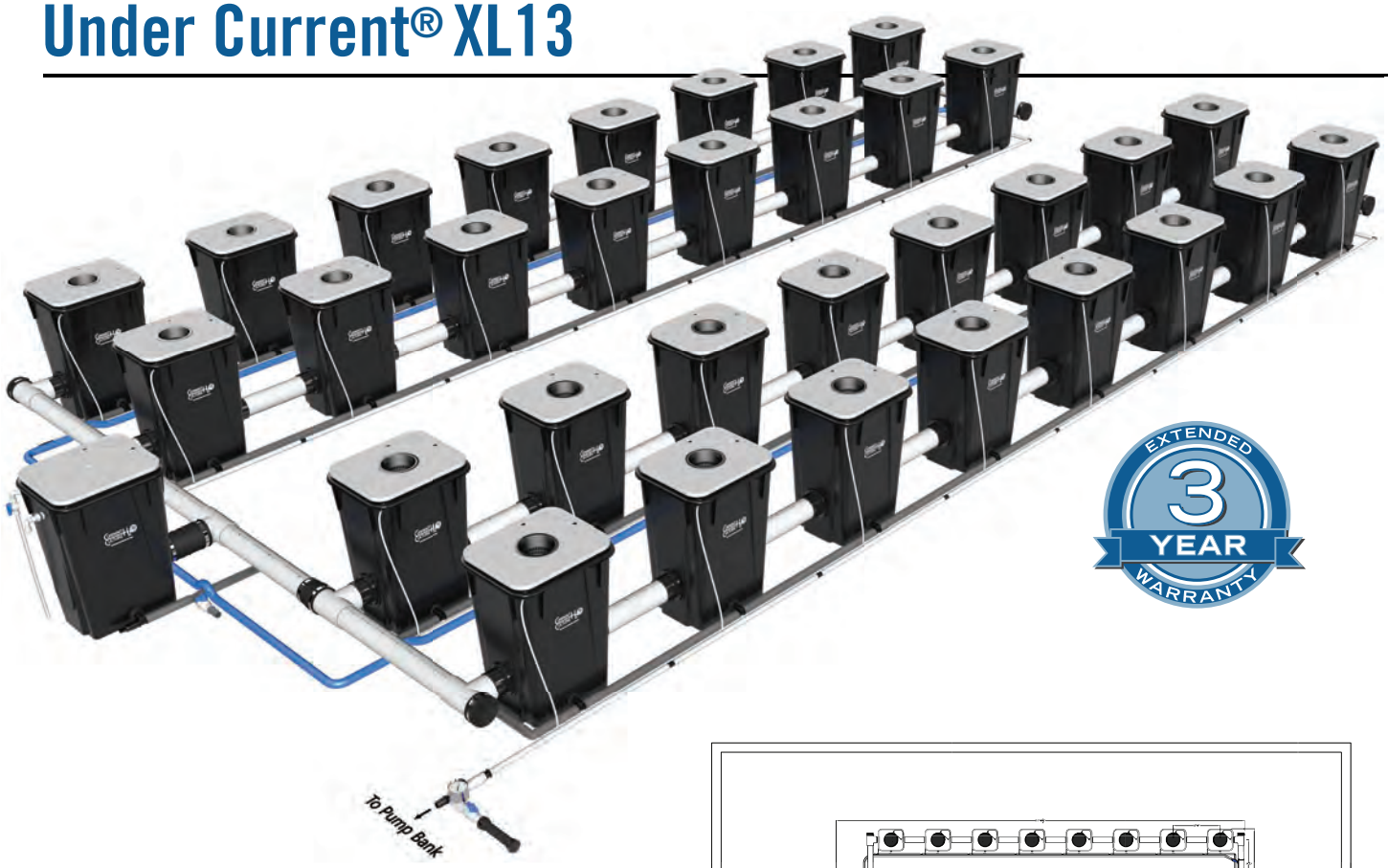
UCDB32XL

UNDER CURRENT® DOUBLE BARREL XL

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UCDB16XL	Under Current Double Barrel 16XL	9'4.5" x 10'1.5" / 2.86 x 3.09m
UCDB24XL	Under Current Double Barrel 24XL	9'4.5" x 14'3.5" / 2.86m x 4.36m
UCDB32XL	Under Current Double Barrel 32XL	9'4.5" x 18'5.5" / 2.86m x 5.63m

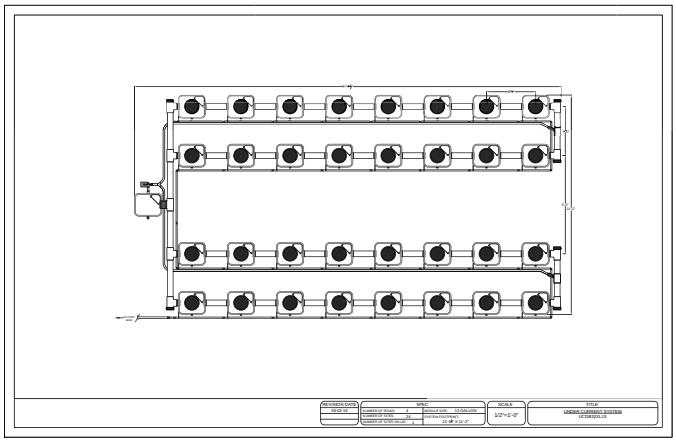
RDWC Hydroponic Systems

Under Current® XL13



EXTENDED 3 YEAR WARRANTY

- Increased Capacity for Mature Root Zone
- For Large Flowering Plants
- Requires 3-5 Week Veg Time



CAD Drawings available for all system configurations

30" PLANT CENTERS

13 GALLON MULTI-MOD

3” SPIN TIGHT BULKHEADS

5'- 6'+ PLANT GROWTH

UC4XL13

UC6XL13

UC8XL13

UC12XL13

UC16XL13

UNDER CURRENT® XL13

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UC4XL13	Under Current 4XL13	3'8" x 6'8.5" / 1.12m x 2.04m
UC6XL13	Under Current 6XL13	3'8" x 9'2.5" / 1.12m x 2.81m
UC8XL13	Uc8xl Under Current 8XL13	3'8" x 11'8.5" / 1.12m x 3.57m
UC12XL13	Uc12xl Under Current 12XL13	3'8" x 16'8.5" / 1.12m x 5.09m
UC16XL13	Uc16xl Under Current 16XL13	3'8" x 21'8.5" / 1.12m x 6.62m

UCE9XL13

UCE12XL13

UCE18XL13

UCE24XL13

UNDER CURRENT® EVOLUTION XL13

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UCE9XL13	Under Current Evolution 9XL13	6'2" x 9'2.5" / 1.88m x 2.81m
UCE12XL13	Under Current Evolution 12XL13	6'2" x 11'8.5" / 1.88m x 3.57m
UCE18XL13	Under Current Evolution 18XL13	6'2" x 16'8.5" / 1.88m x 5.09m
UCE24XL13	Under Current Evolution 24XL13	6'2" x 21'8.5" / 1.88m x 6.62m

UCDB16XL13

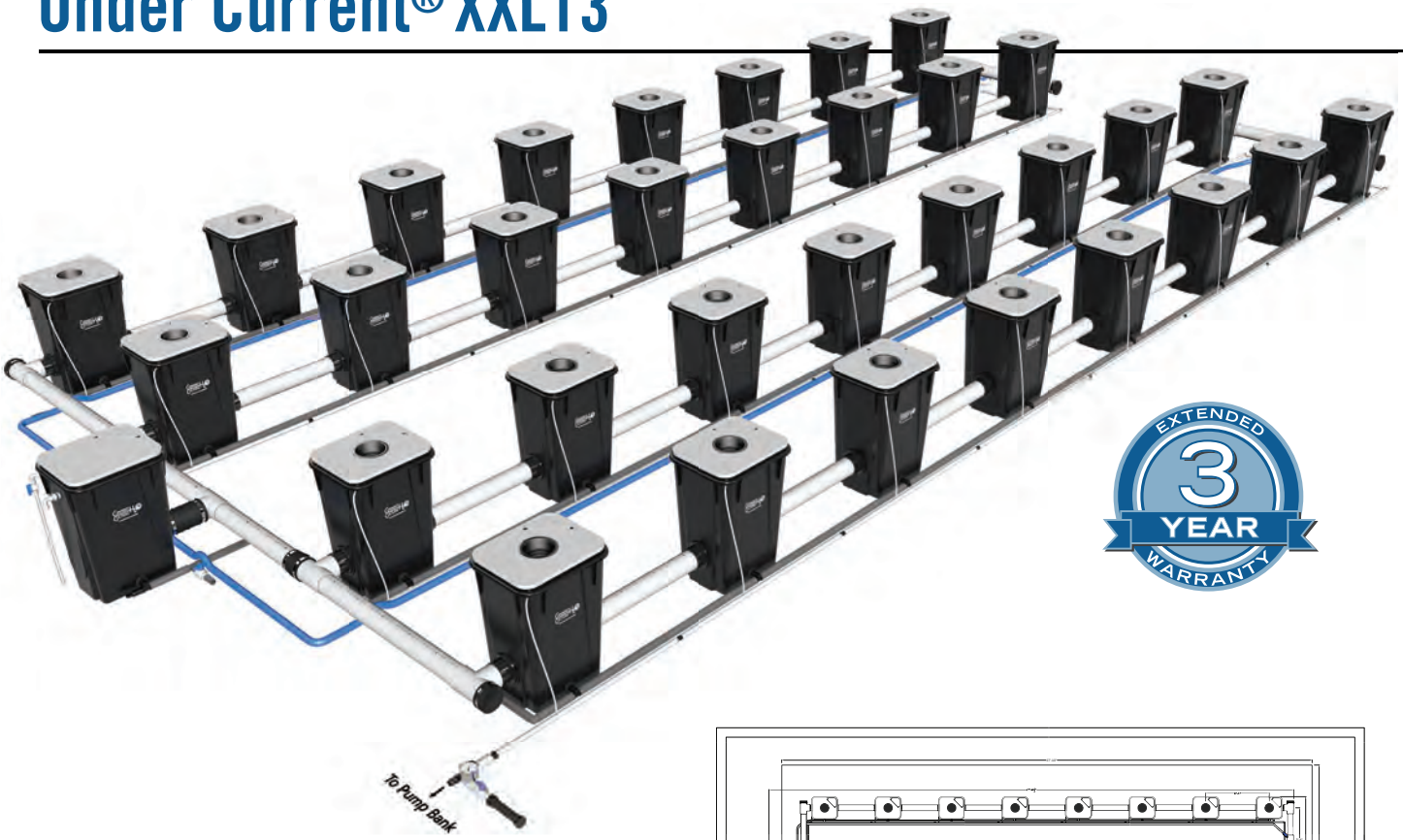
UCDB24XL13

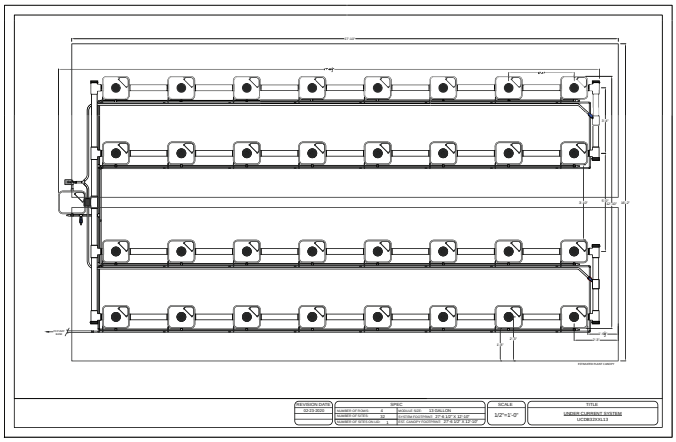
UCDB32XL13

UNDER CURRENT® DOUBLE BARREL XL13

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UCDB16XL13	Under Current Double Barrel 16XL13	11'2" x 11'8" / 3.40m x 3.57m
UCDB24XL13	Under Current Double Barrel 24XL13	11'2" x 16'8.5" / 3.4m x 5.09m
UCDB32XL13	Under Current Double Barrel 32XL13	11'2" x 21'8.5" / 3.40m x 6.62m

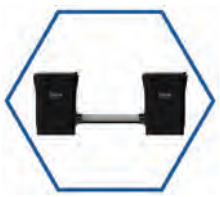
Under Current® XXL13





CAD Drawings available for all system configurations

- Increased Capacity for Mature Root Zone
- Ideal For a Limited Plant Count
- Requires 5-7 Week Veg Time



40" PLANT CENTERS

13 GALLON MULTI-MOD

3” SPIN TIGHT BULKHEADS

7'- 8'+ PLANT GROWTH

UC4XXL13

UC6XXL13

UC8XXL13

UC12XXL13

UC16XXL13

UNDER CURRENT® XXL13

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UC4XXL13	Under Current 4XXL13	4'6" x 7'6.5" / 1.37m x 2.30m
UC6XXL13	Under Current 6XXL13	4'6" x 10'10.5" / 1.37m x 3.31m
UC8XXL13	Uc8xl Under Current 8XXL13	4'6" x 14'2.5" / 1.37m x 4.33m
UC12XXL13	Uc12xl Under Current 12XXL13	4'6" x 20'10.5" / 1.37m x 6.36m
UC16XXL13	Uc16xl Under Current 16XXL13	4'6" x 27'6.5" / 1.37m x 8.39m

UCE9XXL13

UCE12XXL13

UCE18XXL13

UCE24XXL13

UNDER CURRENT® EVOLUTION XXL13

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UCE9XXL13	Under Current Evolution 9XXL13	7'10" x 10'10.5" / 2.39m x 3.31m
UCE12XXL13	Under Current Evolution 12XXL13	7'10" x 14'2.5" / 2.39m x 4.33m
UCE18XXL13	Under Current Evolution 18XXL13	7'10" x 20'10.5" / 2.39m x 6.36m
UCE24XXL13	Under Current Evolution 24XXL13	7'10" x 27'6.5" / 2.39m x 8.39m

UCDB16XXL13

UCDB24XXL13

UCDB32XXL13

UNDER CURRENT® DOUBLE BARREL XXL13

CODE	PRODUCT DESCRIPTION	SYSTEM DIMENSIONS
UCDB16XXL13	Under Current Double Barrel 16XXL13	12'10" x 14'2.5" / 3.91m x 4.33m
UCDB24XXL13	Under Current Double Barrel 24XXL13	12'10" x 20'10.5" / 3.91m x 6.36m
UCDB32XXL13	Under Current Double Barrel 32XXL13	12'10" x 27'6.5" / 3.91m x 8.39m

DWC Hydroponic Systems

UC Solo Comm

Deep Water Culture (DWC)

RESIDENTIAL

The UC Solo COMM is the ideal high-performance DWC hydroponic system for compact spaces. With its turn-key design, the UC Solo COMM is a complete high-yield cultivation solution.

The re-designed Multi-Mod Commercial chamber is built to last a lifetime and produce consistent heavy harvests. It features a specialized recessed Drain Well that allows for full drain out and a Fast-Fill Float Valve for easy maintenance during planting cycles.

The UC Solo COMM includes Cultured Solutions premium hydroponics nutrients. This Proven Production Approach assures success the very first time and every time.

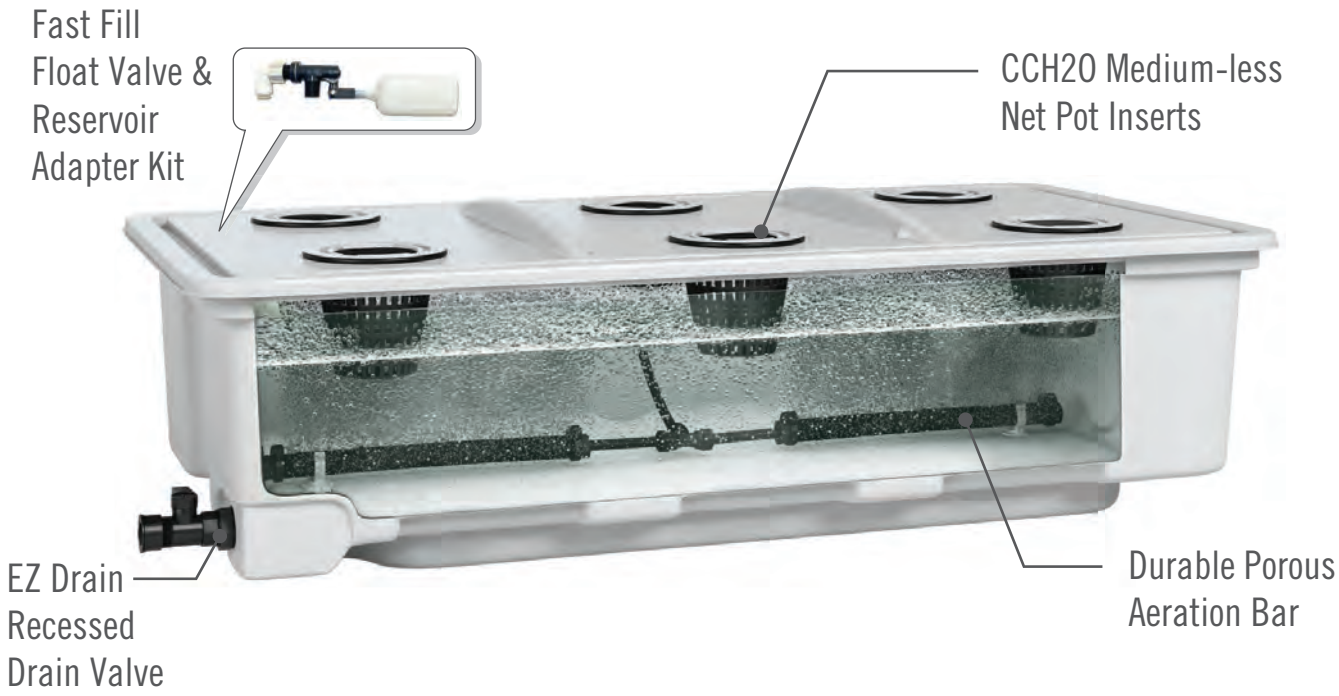
Plug & Play
Engineered for intuitive worry-free assembly

Space-Efficient Design
Modular components maximize available footprint

Facilitates Dense Canopy
Compact profile with maximum production

Year Round Gardening
Perfect for growing indoors or in the greenhouse

UC SOLO COMM	PRODUCT DESCRIPTION
UCSOLO-COMM-6-5.5	UC Solo Comm 35 Gallon - 6 X 5.5" Net Pots, Net Pot Inserts, 3.75" Collars



UC SOLO

Deep Water Culture (DWC)

RESIDENTIAL

UC Solo Comm & UC Solo Include:

CULTURED SOLUTIONS®

PREMIUM HYDROPONIC NUTRIENTS

- Great for Hydro Beginners!
- Available in 8 and 13-Gallon Sizes
- Easy to Setup and Maintain

CODE	PRODUCT DESCRIPTION
UCSOLO8	UC Solo 8 Gallon - Updated With Multi-Mod
UCSOLO13	UC Solo 13 Gallon - Updated With Multi-Mod

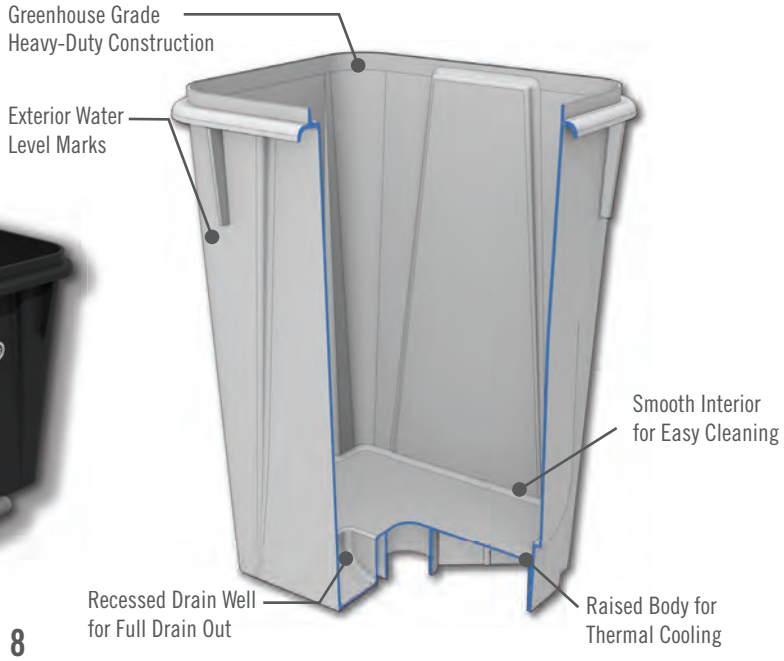
Parts & Accessories

CCH20 Multi-Mod

Durable & Versatile Hydroponic Growth Module

RESIDENTIAL | PROFESSIONAL | COMMERCIAL

CCH20 MULTI-MOD 13 CCH20 MULTI-MOD 8



The CCH20 Multi-Mod's specialized design features a recessed drain well allowing for full drain out, making it perfect for use in a variety of applications such as: RDWC, DWC, Aero, Coco Cal, Drip, Soil-less, Ebb-n-Flow and any type of DIY application. *Made in California.*

CCH20 DROP TEE

Compatible with All CCH20 Parts:

Lids, Net Pots, Drop Tee, Bulkheads, Bulkhead Filter, Bulkhead Wrench, and Drain Fittings

CODE	PRODUCT DESCRIPTION
MMOD8-GROWTH	8 Gallon Multi-Mod - Drilled For Bulkheads - With Plug Kit
MMOD13-GROWTH	13 Gallon Multi-Mod - Drilled For Bulkheads - With Plug Kit
MMOD-MPK	Multi-Mod Plug Kit - 3/4 Uniseal & Plug
MMOD-DROPTEE	Drop Tee For Multi-Mod - Requires Uniseal
UNI3/4-PACK10	3/4" Uni Seal - Pack Of 10
DOK-PUMPKIT	DOK Pump Out Kit

CCH2O LIDS

Built To Last

The CCH2O Lid provides a secure fit on the 8 and 13 gallon growth modules and features structurally reinforced ribbing to support large plants. Constructed of white, non-translucent ABS the CCH2O Lid is compatible with all CCH2O Net Pots and Net Pot Inserts. Made in California.

CODE	PRODUCT DESCRIPTION
UC-LID5.5	Cch2o Lid Single 5.5" - White
UC-LIDQUAD	Cch2o Lid Quad 4 X 5.5" - White
UC-LIDEPI	Cch2o Epicenter Lid - White
UC-LID8	Cch2o Lid Single 8" - White
UC-LIDPORT	Port Hole Cover - Replacement - White

CCH2O NET POTS

Maximize Root Development

The CCH2O Net Pots inverted planting deck standardizes transplanting depth and improves airflow within the root zone. Made from solid ABS, our CCH2O net pots are suitable for any gardening application. Available in 5.5" & 8" sizes. Comes standard with all Under Current® systems. Made in California.

CODE	PRODUCT DESCRIPTION
CCH2O-NET5.5	CCH2O Net Pot 5.5"
CCH2O-NET8	CCH2O Net Pot 8"

CCH2O NET POT INSERT - Media-less

Eliminate Grow Media

The CCH2O Net Pot Insert eliminates the need for costly grow substrates and allows for 100% media-less cultivation. Fits snuggly in the 5.5" CCH2O Net Pot and holds a 3.75" collar for easy transplanting. Ideal for transitioning bare-root and rockwool cuttings to DWC/RDWC. Accepts 3.75" neoprene.

NET POT INSERT	PRODUCT DESCRIPTION	RETAIL
CCH2O-NETPOT-INSERT-3.75	CCH2O "Medium-less" Net Pot Insert 3.75 - Fits In 5.5" Net Pot - *Requires 3.75" Neoprene Collar	
CCH2O-NPI-COLLAR-3.75	3.75" Neoprene Collar - For CCH2O Net Pot Insert	

Parts & Accessories

UC SPIN TIGHT BULKHEAD 2"

UC SPIN TIGHT BULKHEAD 3"

CCH2O UC SPIN TIGHT BULKHEAD

For All Hydro Applications

The CCH2O UC Spin Tight Bulkhead creates a secure, water tight seal around the Under Current® growth modules. The UV stabilized, heavy duty ABS construction provides years of reliable use.

Features:

- Fits all 2" & 3" ABS / PVC Pipe
- Works with Bulkhead Wrench & Filter
- Great for Hydro DIY
- Made in California

CODE	PRODUCT DESCRIPTION
CCH2O-UCSPINTIGHTBULKHEAD2	UC Spin Tight Bulkhead 2" - For 8 Gallon Modules
CCH2O-UCSPINTIGHTBULKHEAD3	UC Spin Tight Bulkhead 3" - For 13 Gallon Modules

BULKHEAD WRENCH

CCH2O BULKHEAD ACCESSORIES

For All UC Spin Tight Bulkheads

The CCH2O Bulkhead Wrench is designed to easily and securely tighten both the 2" and 3" UC Spin Tight Bulkheads.

Features:

- Fits 2"and 3" UC Spin Tight Bulkheads
- Made in California

BULKHEAD FILTER

The CCH2O Bulkhead Filter securely fits within the UC Spin Tight Bulkhead and filters unwanted plant matter.

Features:

- Large Surface Area to Catch Roots and Debris From Entering Manifolds
- Fits 2"and 3" UC Spin Tight Bulkheads
- Made in California

CODE	PRODUCT DESCRIPTION
CCH2O-WRENCH	CCH2O Bulkhead Wrench (Fits 2" & 3" Bulkheads)
CCH2O-BULKHEADFILTER	CCH2O Bulkhead Filter Screen (Fits 2" & 3" Bulkheads)
CCH2O-GASKETPRO2	Flat Gasket For Bulkhead Body 2"
CCH2O-GASKETPRO3	Flat Gasket For Bulkhead Body 3"

UC MODULE CAGE

Durable Plant Support

The UC Module Cage was built to support large plants.
Design Allows for Installation With Established Plants.

Features:

- Works With All 8 & 13 Gallon Growth Modules
- Made in the USA

CODE	PRODUCT DESCRIPTION
UC-MODCAGE	Module Cage - Fits 8 And 13 Gallon Modules (4ft. Tall) *Works With Multi-mod

UC PARKA CAP & GOWN

Reflective Multi-Mod Covers

The UC Parka Cap & Gown was designed to enhance the chilling efficiency of the Under Current system by reflecting radiant heat.

Features:

- 96% Reflectivity for Optimal Performance
- Made in the USA

CODE	PRODUCT DESCRIPTION
UC-CAP	UC Parka 8/13 - Cap - Designed To Cover The Top Of Multi-mod
UC-GOWN-8	UC Parka 8 - Gown - Designed To Surround The Sides Of Multi-mod
UC-GOWN-13	UC Parka 13 - Gown - Designed To Surround The Sides Of Multi-mod

DOK PUMP OUT KIT

Self Priming Pump

The DOK Pump Out Kit attaches to quickly drain the system during nutrient change-outs and system flushing.

CODE	PRODUCT DESCRIPTION
DOK-PUMPKIT	DOK Pump Out Kit

Water Management

HYDRO FROST
SOLUTION CHILLERS

RESIDENTIAL | PROFESSIONAL | COMMERCIAL

High-Efficiency Professional Hydroponic Water Chillers

Engineered specifically for hydroponic cultivation, Hydro Frost Solution Chillers provide precise temperature control for irrigation reservoirs and hydroponic systems. Utilizing commercial-grade components and solid-state electronics, Hydro Frost Solution Chillers offer best in class performance and are built to last for years of service. Available in a variety of sizes, Hydro Frost Solution Chillers integrate seamlessly into a wide range of irrigation applications. These durable units provide a reliable solution for controlling nutrient solution temperatures, ensuring optimal crop performance.

Commercial Rated
Available in 1-1.5 hp for 200-300 gallons

Titanium Heat Exchanger
Anti-corrosive for saltwater and freshwater

Digital Controls
Microcomputer control system and LCD display

Environmentally Friendly
No Freon, all units use R410a refrigerant

Maintain Hydroponic Reservoirs At The Perfect Temperature

High Efficiency
Designed to achieve the highest coefficient of performance (COP), contributing to significant energy savings.

Premium Construction
Galvanized steel housing with a durable powder coated finish. Industry leading components.

High-Performance Rotary Compressor
Extremely efficient and reliable. Internationally recognized and exclusively used in all units.

Titanium Coaxial Heat Exchanger
Ensures high performance with low energy consumption. Anti-corrosive for saltwater and freshwater applications.

Computer Intelligent
Microcomputer control system and LCD display. Auto restart and temperature memory in the event of a power failure.

Intuitive and Accurate Settings
Easy to operate, with real-time water temperature control and accurate temperature readings. Over current and overheat auto-protection system.

Decreased Noise Levels
High air volume and low noise design allow for quiet operation.

Minimal Maintenance
Designed for years of reliable use. Easily serviceable with replacement components. 1-year warranty.

1 HP
Ideal for 150-200 Gal.

11/2 HP
Ideal for 225-300 Gal.

2 HP
Ideal for 300-400 Gal.

3 HP
Ideal for 450-600 Gal.

5 HP
Ideal for 750-1000 Gal.

Hydro Frost Hydroponic Chiller Specifications					
Model No.	HF–1 HP	HF–1 1/2 HP	HF–2 HP	HF–3 HP	HF–5 HP
Unit Size	26 x 13 x 18 in.	31 x 15 x 20 in.	31 x 16 x 23 in.	31 x 16 x 27 in.	36 x 20 x 41 in.
Recommended Tank Size	200 gal. / 757 Lt.	300 gal. / 1135 Lt.	400 gal. / 1514 Lt.	600 gal. / 2271 Lt.	1000 gal. / 3785 Lt.
Cooing Capacity	2,600W	3,500W	5,200W	7,200W	17,400W
Rated Voltage	110-120v /60HZ	110-120v /60HZ	208-230v /60HZ	208-230v /60HZ	220v /60HZ/3Ph
Rated Power	1 HP (850w)	1 1/2 HP (1250w)	2 HP (1550w)	3 HP (2400w)	5 HP(3700w)
Current	8.5A - 9.5A	10.5A - 11.5A	7.5A - 8.2A	11.2A - 12.5A	17.5A - 18.3A/Ph
Refrigerant	R410A	R410A	R410A	R410A	R410A
Water Flow	>925 Gal./H / 3,500 Lt.	>1189 Gal./H / 4,500 Lt.	>1189 Gal./H / 4,500 Lt.	>1320 Gal./H / 5,500 Lt.	>1717 Gal./H / 6,500 Lt.
Outlet / Inlet Size	1¼" in. (32 mm)	1¼" in. (32 mm)	1¼" in. (32 mm)	2" in. (50 mm)	2" in. (50 mm)
Weight	77 lbs. (35kg)	99 lbs. (45kg)	121 lbs. (55kg)	132 lbs. (60kg)	275 lbs. (125kg)
Function	Cooling	Cooling	Cooling	Cooling	Cooling

Water Management

SWEETWATER REGENERATIVE AIR BLOWERS

Centralize your Facility Aeration by utilizing a Regen blower

Regenerative air blowers provide a reliable high volume, energy efficient air delivery.

CODE	PRODUCT DESCRIPTION
S11	S11 Sweetwater Blower 1/8 Hp
S21	S21 Sweetwater Blower 1/3 Hp
S31	S31 Sweetwater Blower 1/2 Hp
S41	S41 Sweetwater Blower 1 Hp
S45	S45 Sweetwater Blower 1.5 Hp (No Power Cord Supplied)

ALITA AIR PUMPS

Premium Linear Design

Linear Air Pumps are designed to deliver high volumes of airflow at low-pressure ranges.

CODE	PRODUCT DESCRIPTION
AL-15A	Alita AL-15
AL-25M	Alita AL-25
AL-40	Alita AL-40
AL-60	Alita AL-60
AL-80	Alita AL-80
AL-100	Alita AL-100
AL-120	Alita AL-120
AL-150	Alita AL-150
AL-200	Alita AL-200

CCH2O AIR FLOW REGULATOR

Precise Control Over Air Output

The CCH2O Air Flow Regulator (AFR) indicates Inches of Water Column (IWC) for calibrating air flow into and through the aeration distribution system.

CODE	PRODUCT DESCRIPTION
UC-AIR- AFR	Air Flow Regulator - Retail Box - With 1" To 3/4" Adapters
PROAIR-AFR	Air Flow Regulator XL For UC Pro (1.5" PVC)

UC AIR STONE

High-Output Design

The CCH2O Sintered Air Stone has an improved design for increased air diffusion. These durable air stones have a wide range of pore sizes from 0.2 micron to120 microns allowing small bubbles to flow through much easier.

CODE	PRODUCT DESCRIPTION
CCH2O-SINTERED-AIRSTONE	CCH2O-Sintered Airstone

WATER PUMPS

MAG Drive

MAG Drive water pumps operate quietly and efficiently to deliver reliable and consistent, maintenance free performance.

CODE	PRODUCT DESCRIPTION
MAG250	MAG 250
MAG350	MAG 350
MAG500	MAG 500
MAG700	MAG 700
MAG950	MAG 950
MAG1200	MAG 1200
MAG1800	MAG 1800
MAG2400	MAG 2400

HEAVY DUTY CORRUGATED HOSE

1" Return Hose

Our corrugated hose design provides a flexible and durable plumbing solution for our hydroponic systems that a built to last with optimum performance.

CODE	PRODUCT DESCRIPTION
CCH2O-HOSE-25	1" Heavy Duty Corrugated Return Hose Blue - 25'
CCH2O-HOSE-50	1" Heavy Duty Corrugated Return Hose Blue - 50'
CCH2O-HOSE-100	1" Heavy Duty Corrugated Return Hose Blue - 100'
CCH2O-HOSE-BC	1" Barbed Coupler

INDUCTION TANK

Cone Bottom

Made from food-grade polyethylene and built to withstand tough environmental conditions. Excellent chemical and impact resistance for long dependable service.

CODE	PRODUCT DESCRIPTION
AQUIFERCONE-30	30 Gallon Natural - Cone Bottom Tank With Stand, Lid And 2" Bulkhead
AQUIFERCONE-75	75 Gallon Natural - Cone Bottom Tank With Stand, Lid And 2" Bulkhead
AQUIFERCONE-100	100 Gallon Natural - Cone Bottom Tank With Stand, Lid And 2" Bulkhead
AQUIFERCONE-150	150 Gallon Natural - Cone Bottom Tank With Stand, Lid And 2" Bulkhead

DOORWAY TANK

Made For Slim Spaces

These tanks have been designed with commercial applications in mind.
The dimensions of the tanks allow them to fit through a conventional doorway.

CODE	PRODUCT DESCRIPTION
AQUIFERDOOR-200	200 Gallon Natural - Doorway Tank With Lid And 1.25" Bulkhead (29x62x40)
AQUIFERDOOR-300	300 Gallon Natural - Doorway Tank With Lid And 1.25" Bulkhead (29x62x48)
AQUIFERDOOR-400	400 Gallon Natural - Doorway Tank With Lid And 1.25" Bulkhead (29x66x68)
AQUIFERDOOR-500	500 Gallon Natural - Doorway Tank With Lid And 1.25" Bulkhead (31x74x70)
AQUIFERDOOR-750	750 Gallon Natural - Doorway Tank With Lid And 1.25" Bulkhead (35x82x83)
AQUIFERDOOR-1000	1000 Gallon Natural - Doorway Tank With Lid And 1.25" Bulkhead (40x92x86)

CURRENT CULTURE H2O®

LEADERS IN HYDROPONICS
SINCE 2006

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Product Guide

UNDER CURRENT®
HYDROPONIC SYSTEMS

CULTURED SOLUTIONS®
PREMIUM HYDROPONIC NUTRIENTS

HYDRO FROST
SOLUTION CHILLERS

HPAC Cloning System

See us in action
INSTAGRAM

CCH2O
Retail Price List