Get Growing NFT 4K
Farmers Market Bundle

AMHYDRO
growing solutions since 1984

Get Growing! Farmers Market Bundle - Grand Peak   7/1/18

Hydroponics System:		**NFT 4K**	**Atlas Grand Peak**
> Plant Sites:		**4,320**	Total sites
> Production:		1,080	Plants/week (6 week cycle)
> Configuration:		2,160	Finishing (2wks - 50% of NFT sites)
		2,160	Nursery (2wks - 50% of NFT sites)
		2,760	Propagation (2 wks. -Propagation Tray Sites)
> Green House:		**30'x48'**	Standard size (1,440sq ft.)

Get Growing! Farmers Market Bundle - Grand Peak   Quantity Description

	Quantity	Description
Hydroponics NFT 4K Kit:		
GroClean NFT Channel Kit:	120	Gro Clean NFT Channel (12' Finishing Sections - HDPE)
	30	Gro Clean NFT Channel (12' Nursery Sections - HDPE)
Table Frames/Benching Kit:	7	10' Custom Table Frames
Collectors	7	10' Covered Collector
ManifoldsF	6	10' Finishing Manifolds
ManifoldsN	1	10' Nursery Manifolds
Pumps	2	1/2 HP pumps
Reservoir	1	575gal Cistern w 15in Manhole Extension
Plumbing	1	PVC package to plumb in system & reservoir
Nutrient/H2O Control Kit:	1	Water Meter
	1	Nutrient Controller w/Triple Peristaltic Pump
	1	pH probe
	1	Handheld EC/pH Meter
Propagation Kit:	1	Get Seeding 5 Tray Propagation system w/bottom heat package
	1	Vacuum Seeder
	7	Lighting for propagation & nursery
Other Important Items Kit:	1	30gal w Lid Nutrient Stock Tanks Kit
	1	5gal Acid Tank Kit
	2	Channel Scrub Brush and handle
	1	NFT tool kit
	14	1.5" Flexy drain
	1	Kerrick float valve kit
	1	Venturi Tee
AmHydro Services	3	AmHydro supervision of system installation (2 days plus travel day)
	1	Plumbing design and plans
	1	Electrical panel with mounted controllers
	1	Annual Grower Support
	2	Day consulting at your greenhouse by an AmHydro Consultant (1 day + travel day)
	1	Packing and Freight to customer
	1	Custom shipping Pallets
	1	Consulting for seed varieties and nutrients
	2	Tee-Shirts
Greenhouse * (includes 5% increase for 07/18 steel tarrifs)	1	Green house structure - includes heater, vent motors, HAF fans, doors, shade screen.
	1	Fan and pad system for cooling
	1	Insect Exclusin (12') on each endwall
	1	Shade Screen
	1	Freight for greenhouse
	1	Environmental Controller (StepUP)
	1	CO2 burner & controller
	1	Ground Cover w/anchor pins-15'x300' roll
Pro Grower Subscription (3 months)	3	Seeds Variety
	3	Oasis LC1 5231 (Thin Cut)
	4	AmHydro Plant Specific Nutrients
	1	Essential Plus 1gal
	1	Buffer Solution pH 4&7 16oz
	1	Calibration Solution 27.7 16oz
	3	pH Down 10% 1 gal
	2	Plastic 'stakes' for labeling (2000 total stakes)
	3	Water Testing

Get Growing! Farmers Market Bundle TOTAL: $ 97,500

Not Included in this package. Owner responsible for:
    Capital investment - $97,500+
    Site prep & construction for the greenhouse which includes:
        1600+ sqft of space and building permits (if required)
        Utilities brought to the greenhouse site
        Level ground/ area for greenhouse
        Construction of greenhouse and AmHydro NFT system
        Ability to dig hole for the 575 gallon reservoir (approx. 10'x6'x4')
        4-5 laborers to construct greenhouse (local tradesmen may be needed)
        Scissor lift or boom truck to raise greenhouse arches
    Travel expenses for AmHydro growing consultant
    Travel expenses for AmHydro Install Supervisor

NFT System Specifications

Harvest:

Crop Turn (CTT) - A number determined by harvested plants per year, per finishing plant site.

13 CTT - 540 plants per week (8 week harvest cycle)

17 CTT - 720 plants per week (7 week harvest cycle)

26 CTT - 1,080 plants per week (6 week harvest cycle)

System:

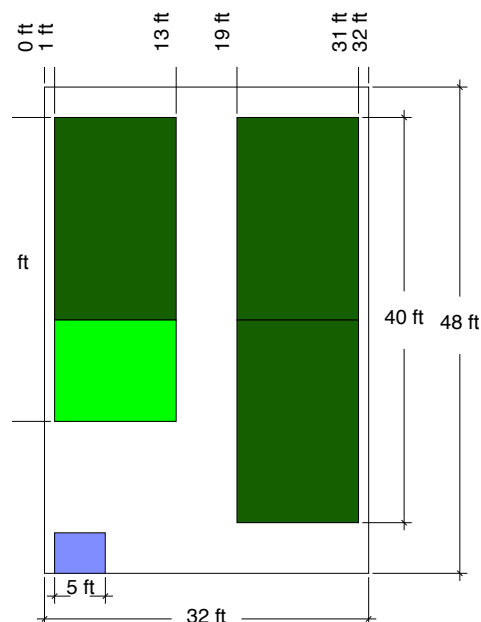Finishing sites: 2,160 (120 channels)

Nursery sites: 2,160 (30 channels)

Propagation sites: 2,760 (5 trays)

Reservoir size: 575 gallons

Greenhouse square foot: 1,536

NFT growing area square foot: 840

Legend:
- Finishing Tables
- Nursery Tables
- Propagation Tables

AmHydro's Get Growing - Farmers Market 4K Bundle

System Specifications

Total Square feet of NFT system:	840
Lineal feet of NFT system:	70
Water usage per day (Gallons):	203
Recommended reservoir size (Gallons):	575
Greenhouse size:	32x48
Number of bays:	1
Number of finishing plant sites:	2,160
Number of nursery plant sites:	2,160
Number of propagation plant sites:	2,760

Projected harvest numbers per week

13 Crop turns per year (8 week seed to harvest):	540
17.33 Crop turns per year (7 week seed to harvest):	720
26 Crop turns per year (6 week seed to harvest):	1,080

NFT System Details

Our AmHydro Pro NFT system has been used in the field for over 30 years and has been refined for ease of use, longevity and versatility.

Each NFT system is comprised of 10 foot modules that connect together to make desired table length. The *4K NFT System* uses 7 of these 10 foot modules.

Each AmHydro Pro NFT module is made from *five* components that have been designed and refined over 30 years.

TABLE FRAME - Table frames are made from 10ga to 18ga galvanized steel that come pre-drilled for ease of assembly. Table frames are put together using a 5/16" hex bit, power drill and speed square.

FEEDER - Each feeder manifold feeds a 10' section of table and is made from virgin LDPE plastic. These manifolds feed from the center for even pressure. Each manifold comes with a clean-out fitting on each end for maintenance and is controlled with a heavy duty PVC ball valve. Our leak-proof AmHydro grommet secures a 1/4" micro-tube for even delivery to each AmHydro channel. No glue is required when assembling feeder for ease of assembly and maintenance.

COLLECTOR - Each covered collector returns nutrient water from a 10' section of table and is made from duel-wall LDPE pipe. Collectors have a hinged cover to keep sunlight off draining end of channels. No glue is required when assembling collector for ease of assembly and maintenance. Our AmHydro Drip Cap is attached, in conjunction with each collector, to eliminate leaks.

FINISHING CHANNEL - Finishing channels are 144" long and come with 1.75" holes on 7.75" center's. There are 18 holes per channel. Our channels are made from 100% virgin FDA approved HDPE.

NURSERY CHANNEL - Nursery channels are 144" long and come with 1.6875" holes on 2" center's. There are 72 holes per channel. These channels are also made from 100% virgin FDA approved HDPE. Both channel types are ready to use, right off the pallet.

Tank House Components

The tank house components are the heart of the NFT system. These components can be housed inside the working greenhouse or in a separate building we term as head house. We can source the main reservoir, 500 gallon - below grade, but usually recommend the grower to source due to shipping requirements.

INTELLIDOSE CONTROLLER (ID) - The ID takes care of your reservoir so you don't have to. This unit will monitor the pH and Nutrient concentration (EC/CF) of your working solution and make the necessary adjustments.

STOCK TANKS - Nutrient stock tanks are made from thick HDPE and will last a lifetime. pH stock tank is made to withstand breakdown form acidity of pH adjuster.

PUMP - The *4K NFT System* uses (1) 1/2HP pump. We use Max-E-Pro centrifugal pumps made by Sta-Rite for durability and longevity. We always include an extra pump.

FLOAT VALVE AND WATER METER - Float valve is a 3/4", 37 GPM Kerick valve and the water meter measures how much water your system is using per day/week.

Propagation System

We have a handful of propagation systems. The *4K NFT System* utilizes the Get Seeding 5-tray propagation system. This system is the perfect size and most importantly, provides the necessary number of propagation sites to feed your nursery channels. All of our propagation systems are recirculating and use our commercial grade AmHydro propagation trays (cMPT). The Get Seeding 5-tray Propagation System is a stand-alone system that comes complete with everything required

The propagation stage is one of the most important as it sets the pace for your harvest times. Strong seedlings make for quicker crop turns. The *4K NFT System* comes with a bottom heat package to keep your seedling at optimum temperature.

Growing Supplies

NUTRIENTS - Our mineral fertilizers are manufactured right here at AmHydro and have been used in the field for over 25 years. Our two-part powders are made from the purest commercial grade minerals that follow California's strict guidelines on standards and quality. The *4K NFT System* comes with a 3 month supply (4 cases).

GROWING MEDIUM - We offer exclusively Oasis propagation cubes manufacture my Smithers Oasis. We have found them to be the most reliable and consistent and the easiest to work with. The *4K NFT System* comes with 1" LC1 Oasis.

BUFFERS - Standard 4&7 buffers for calibrating pH probes on DBC controllers and hand-held meters as well as standard 27.7 calibration solution for CF probes.

pH ADJUSTER - Standard food grade 10% pH down and pH up.

WATER TESTING - The *4K NFT System* comes with (3) water tests. One will be used in the very beginning to see if water treatment is necessary. The remaining (2) are for monitoring the nutrient balance within the recirculating NFT system.

SEEDS - The *4K NFT System* comes with high quality, pelleted seeds. We provide enough for 3 months supply.

Growers Support - The AmHydro Advantage™

All AmHydro systems are designed and manufactured to be the best in the industry. The equipment purchase, however, is only a first step in setting up a successful hydroponics business. That is why the *4K NFT System* come with AmHydro Advantage™, a specialized service and support program aimed at giving you the information you need.

Grower/Technical Support: American Hydroponics provides the grower with growing and technical support regarding any phase of the Hydroponic System for a twelve-month period commencing the date the customer receives system. Grower and technical support will be provided through faxes, email, Skype, and/or telephone communication. Our support covers installation assistance of the hydroponic system and includes advice/recommendations related to seed selection, propagation techniques, crop turn strategy, ergonomics, nutrient/water/tissue analysis, problem resolution, environmental control, how to anticipate and address upcoming climate change adjustments, packaging and general marketing strategies. Our goal is to maximize crop production at every stage and assist growers in becoming competent and successful in their growing operation. Extra charges for site visit, travel, custom parts and systems.