

I-Droponics

Dozens of years of experience in your palm



Put your money to work →

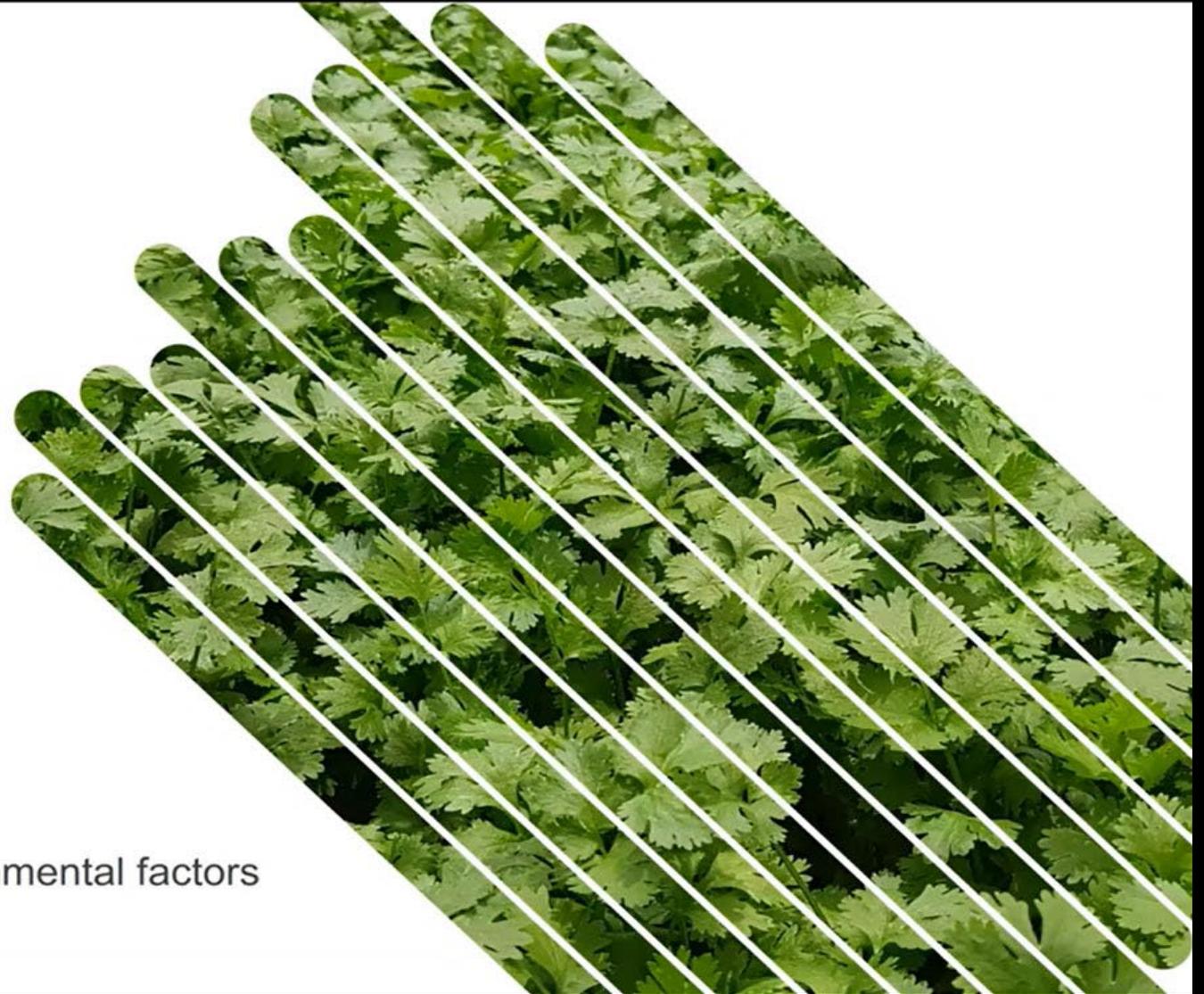


TAPKIT PROPRIETARY HYDROPONIC SYSTEM

Why Hydroponics

Global trend

- Sustainable growing method
- Saving inputs
- Higher yield
- Food safety & Food Security
- Plant protection
- Reduced dependency on environmental factors
- Locally Grown



TAPKIT PROPRIETARY HYDROPONIC SYSTEM



NFT

Growing leafy vegetables and fresh herbs in continuous flow of nutrient solution



TAPKIT PROPRIETARY HYDROPONIC SYSTEM

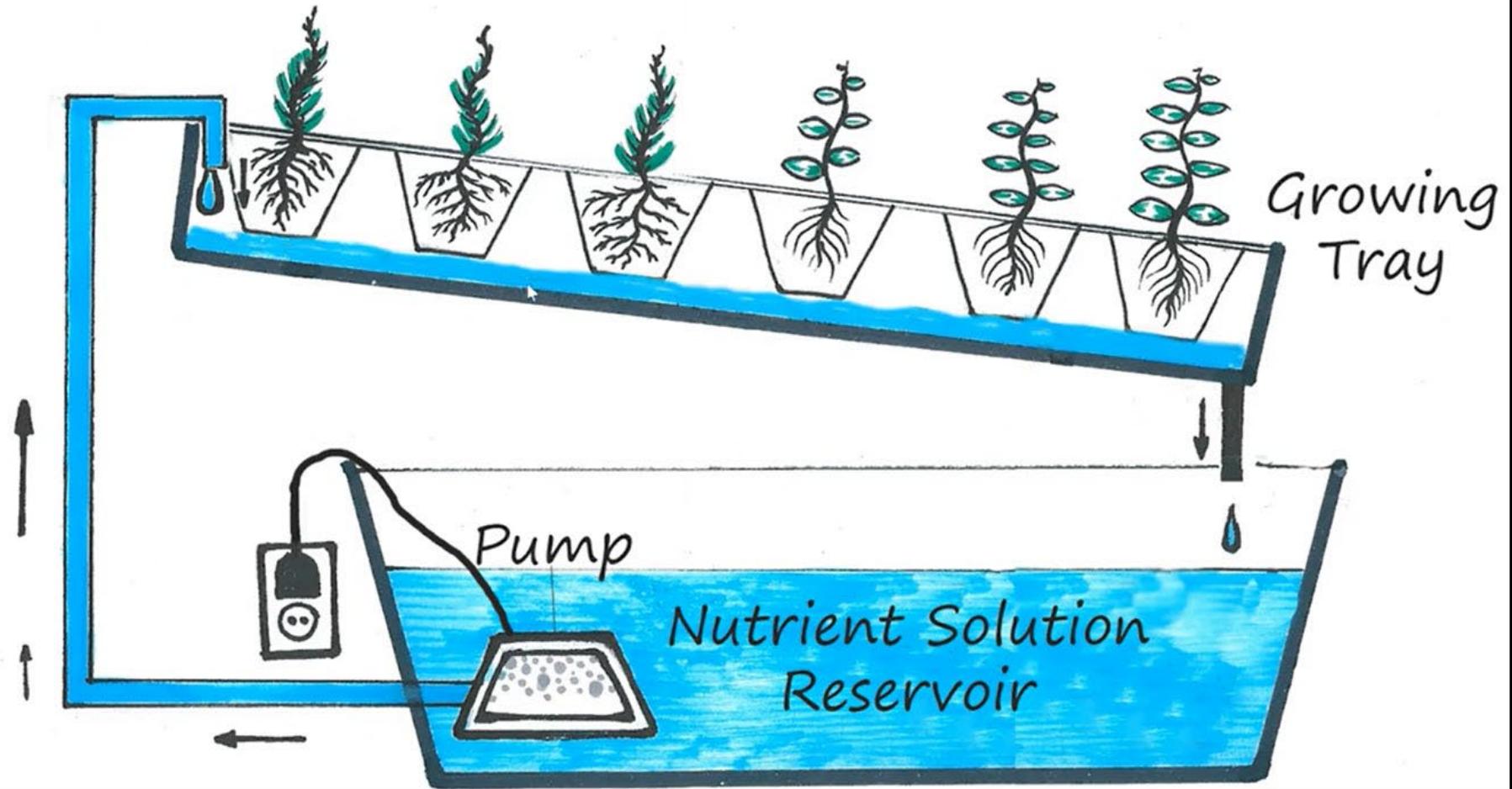
NFT advantages

- Efficient utilization of the growing area
- Ergonomic, comfortable working space
- High operation efficacy
- Uniformity of yield
- No down-time between cycles
- Reduced water and fertilization cost
- Resilient and easy to correct when needed



TAPKIT PROPRIETARY HYDROPONIC SYSTEM

NFT – Nutrient Film Technique



TAPKIT PROPRIETARY HYDROPONIC SYSTEM



Standalone Building Structure

Certified Architectural Drawing provided for compliance with local building codes

Cement pad provided by others

Professional Installation Services are available to assemble the Greenhouse, connect electrical, plumbing and generator



GREENHOUSE DETAILS

PROJECT DETAILS

- 35' x 168' DGM Greenhouse for Hydroponic Production

BUILDING DESCRIPTION

- Gothic Arch Design with 4' Sidewall Height and 6' Truss Spacing.
- Upgraded Truss kit for arches.
- Galvanized Steel Framework with Superior Strength Roll-Formed Arches with integrated condensation control
- Sidewalls and Gable End Framing and Gable Flashing.
- Aluminum Extrusions and Fasteners for Solar Soft Corrugated Polycarbonate for Gable Ends
- Aluminum Extrusions and Fasteners for Double Poly Roofs and Sidewalls
- Framing for TWO (4) Exhaust Fans, ONE (1) Single Swing Door.

DESIGN LOADS

N/A

COVERING

Double-layered 6mil (Clear) 4 yr greenhouse film for roof and sidewalls
Corrugated (Solar Soft) Polycarbonate for Gable Endwalls

HEATING

(2) Modine PTP250 250,000 BTU Unit Heater (NG or LP)

AIR CIRCULATION

(8) 20" Horizontal Air Flow (HAF) Fan. Model: Schaefer VK20.

COOLING

(4) J&D MFG 36" Typhoon Exhaust Fans with sloped wall design
(4) J&D MFG 60" Motorized Aluminum Intake Shutters

DOORS

(1) Standard 36" x 80" Storm Door with glass paneling

CONTROLS

(4) Single Stage and (2) Two-Stage Thermostats

FREIGHT

TAPKIT HYDROPONIC SYSTEM SPECS

Greenhouse Dimensions:

35' x 168' (5,880 SF)

Planting Holes: 22,272

Growing Cycles:

10-12 per annum

*Custom Configuration
to address
climate conditions*

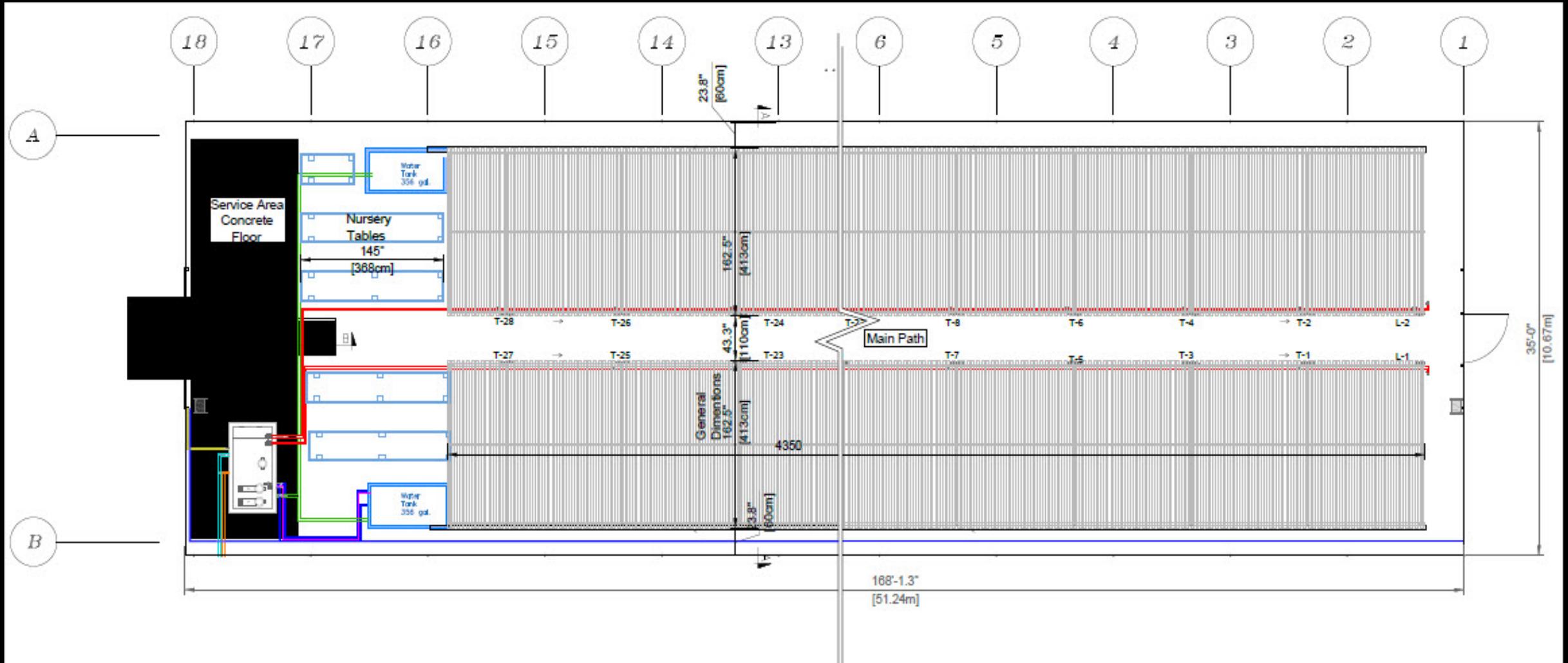
Item	Details
Growing System	<ul style="list-style-type: none"> • NFT channels, gutters, covers and connectors • Seedling trays for growing of plantlets in the nursery section • Germination chamber • Ground cover for prevention of weed growth
Irrigation System	<ul style="list-style-type: none"> • Fully automated irrigation water pumps • Automatic water filtration system • Peristaltic pump • Water distribution system • Service pipes (x2) • Water collection and recycling tanks • Filter Set for water recirculation
Electrical System	<ul style="list-style-type: none"> • Main switch board • Service lights (x2) • Service power outlets (x2)
Equipment and Tools	<ul style="list-style-type: none"> • EC/pH monitoring kits • Packing table • Substrate filling tub • Digital scale • Master crates
Professional Support	<ul style="list-style-type: none"> • Recommendations based on source-water analysis • One year online technical and agronomy support and unlimited use of the management App.

Item	Details
Temperature-isolated, service room for packing / office	9'x12'm. Build with sandwich panels and equipped with, wind curtain, light, service power outlet and 1.5HP AC
Refrigerator	
Heat sealer for bags	
Water chiller	Capable of reducing water temperature by >40°C
Pressure boosting pump for fresh water supply	If the water pressure at source is lower than 3bar (45PSI) at a flow of 44 <u>GPM</u> we recommend installing a booster pump
Stainless steel sink	

OPTIONAL SERVICES

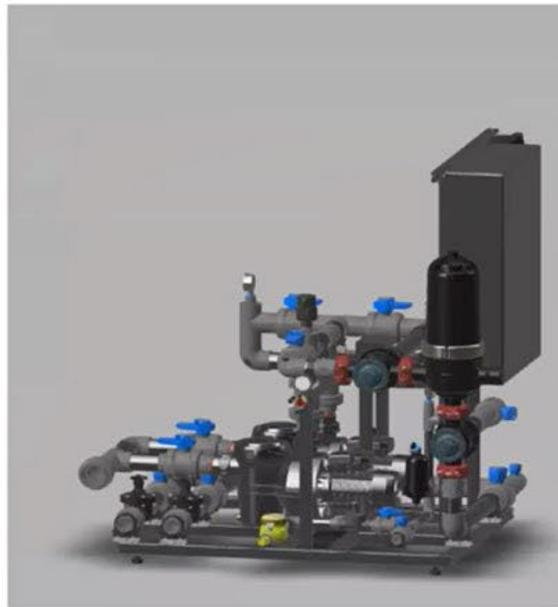
Installation supervision (not including greenhouse)	On-site (2 weeks)
	On-line (21 days)
Production Training	On-site training (30 days)
Operational Support	Mobile App for on-line agronomy/technical support starting from the 2 nd year

TAPKIT GREENHOUSE LAYOUT



TAPKIT PROPRIETARY HYDROPONIC SYSTEM

Irrigation head, fertilizers and supporting equipment



TAPKIT PROPRIETARY HYDROPONIC SYSTEM

Packing station & refrigeration



Smart Phone APP to manage crops

i-Droponics

Dozens of years of experience in your palm



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Planning – seeding, planting, harvesting

Collecting harvesting data

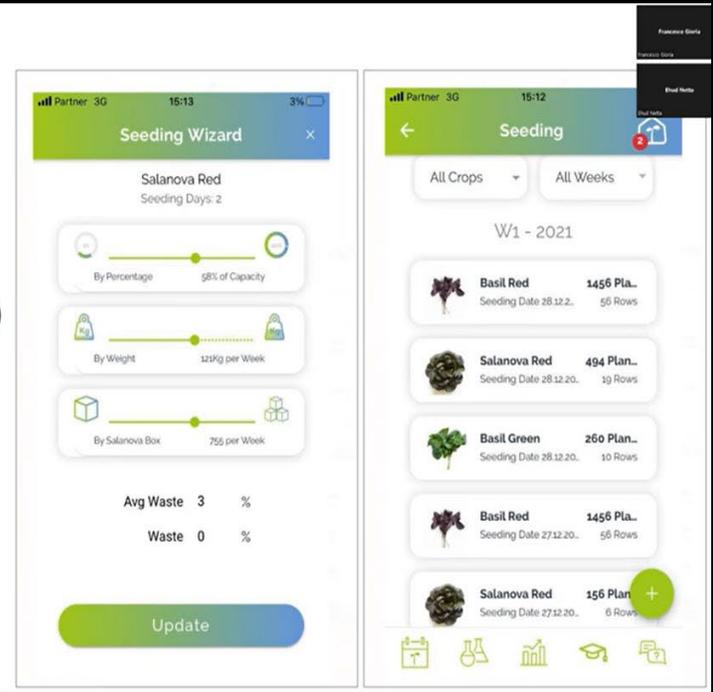
Continuous monitoring (EC, pH, Temp. %RH...)

Q&A

Plant protection

Daily routine

Calendar



TAPKIT Annual Subscription Program

Select your crop product mix and quantities per order

Seeds and pods comprising the seedlings are professionally cultivated off-site and delivered to your Greenhouse according to your growing cycle schedule

Your labor team simply drops the pods into the grow holes in the TAPKIT system and records in the i-Droponics Smart Phone APP for management



**HYDROPONICS GREENHOUSES
FOR ORGANIC LEAFY GREENS**



**Fresh, healthy produce free of
pesticides or ground pollutants**



**FOR LOCATIONS LACKING ACCESS TO
FRESH WATER FOR AGRICULTURE**



**Pure Water from the Air
100% Independent of Existing
Groundwater Resources**



**On-Grid/Off-Grid
Backup or Primary Power**



Contact

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GREYSTONE WARNER
TECHNOLOGIES