





HIGHLIGHTS

- Modular vertical farming solutions
- Hybrid system of NFT & DWC with integrated gravity-driven water circulation
- Convertible between constant flow and Ebb & Flow
- Built-in horticulture lighting fixtures
- Supports all stages and varieties of plant growth
- Can be assembled in less than 30 minutes





Farmony from Life aHead LTD 2020, Unit 5a Stadium Business Park, Ballycoolin, Dublin





FLEXIBILITY	 Customizable from 4 - 8 layers Crops grown on a horizontal plane Layer spacing can be customized upon order
MODULARITY	 Footprint of each individual "module" is 3' x 4' (1m²) Modules can be interconnected into clusters Stackable grow beds, easy for storage and shipping
VERSATILITY	 Covers different stages of crop development: germination, seedling, vegetative Ideal for a large variety of crop cultivation

MORE THAN 200 VARIETIES OF CROPS TESTED



PLANT SITES & GROW AREA ESTIMATION

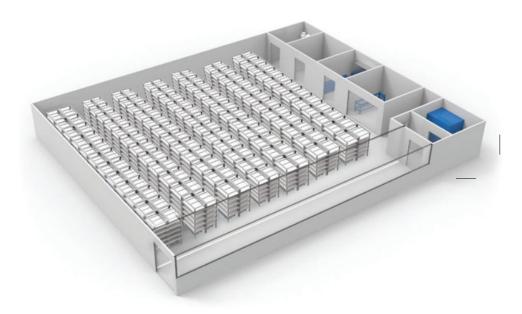
LAYERS	# OF MODULES	SQM FOR GROWING *	# OF PLANT SITES FOR LEAF LETTUCE	# OF PLANT SITES FOR HERBS	# OF 10X20 MICROGREEN TRAYS
4	1	5.2	216	2,880	24
4	100	520	21,600	288,000	2,400
4	200	1,040	43,200	576,000	4,800
4	500	2,600	108,000	1,440,000	12,000

* Actual yield varies significantly depending on the building layout and grower's operation.

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CONFIGURATION GUIDE

PRODUCT	P/N	LAYER	LIGHT-TO-BED HEIGHT (MM)	DIMENSIONS (MM)	COLOR	POWER (W)	TYPICAL PPFD AT PLANT SITES (µMOL·S-1·M2)
Microgreen Module	ZKM12-CE09A/L04H25/\	NT 4	250	1346x942x2665	White	540	200
Vegetative Module	ZKM12-CE10B/L04H30/V	VT 4	300	1346x942x2545	White	540	250

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SPECIFICATIONS

CATEGORY	ITEM	DATA	METRIC	DATA	US		
GROW BED	Outer Length	1.346	[m]	4.42	[ft]		
	Outer Width	0.942	[m]	3.09	[ft]		
	Grow Space Length	1.2	[m]	3.94	[ft]		
	Grow Space Width	0.9	[m]	2.95	[ft]		
	Light-to-bed Height ¹	25/30	[m]	10/12	[in]		
	Number of Stackable Layers	4 - 8		4 - 8			
	Material	Food-grade PP					
	Maximum Load per Grow Bed	27	[kg]	60	[dl]		
	Net Weight	13.5	[kg]	5.4	[lb]		
	Number of Lights per level	8	[#]	8	[#]		
	Tube Length	900	[mm]	3	[ft]		
	Beam Angle	120	[°]	120	[°]		
	Photosynthetic Photon Flux (PBAR)	23/28	[µmol/s]	23/28	[µmol/s]		
CDOWLICHTC	Supply Voltage	100 - 277	[V]	100 - 277	[V]		
GROW LIGHTS	Supply Frequency	50/60	[hz]	50/60	[hz]		
	Power Consumption	11.5/13.5	[W]	11.5/13.5	[W]		
	LED Lifetime ²	36,000	[hrs]	36,000	[hrs]		
	IP Rating	IP65		IP65			
	Certifications	CE/ETL		CE/ETL			
	Number of Rafts per grow bed	2	[#]	2	[#]		
	Raft Length	900	[mm]	2.95	[ft]		
	Raft Width	600	[mm]	1.97	[ft]		
	Raft Depth	30	[mm]	1.18	[in]		
POWERRAFT™	Number of Plant Sites per Raft	27/54/180	[#]	27/54/180	[#]		
	Plant Site Diameter	25	[mm]	0.98	[in]		
	Material	Food-grade PP					
	Net Weight	2	[kg]	4.4	[lb]		
	Circulation Volume per Layer - Deep Mode	30	[L]	8	[G]		
	Circulation Volume per Layer - Shallow Mode	15	[L]	4	[G]		
WATER CIRCULATION	Return Fittings OD	40	[mm]	1.57	[in]		
CINCOLATION	Operating Flow Rate	3.8	LPM	1	GPM		

1. Height can be customized upon order

2. Tested at degradation to 90% of initial output