

OPCOM[®]

Living Green & Healthy



Postadress:

TRÄDGÅRDSTEKNIK AB
Helsingborgsvägen 578, Varalöv
262 96 ÄNGELHOLM

Telefon : 0431-222 90
Bg.nr : 5743-7980
Org.nr : 556409-6120

URL:

www.tradgardsteknik.se
E-postadress:
info@tradgardsteknik.se

OPCOM Smart Container

Hydroponic Farming



40ft. Interactive Container

About Container

OPCOM Containers has an advanced collection system for hydroponic growth technology that delivers high throughput and unmanned operation. Intelligent design provides the perfect solution for plant seedlings, planting and final harvesting.

Unmanned clean room factory design prevents external germ contamination. Through the OPCOM cloud control system, the synchronous monitoring system and data storage are realized, that is, the lighting/air conditioning/nutrient solution system control adjustment is automatically performed locally and remotely.

A high-speed growing wave camera that is self-developed and patented to capture every detail of plant growth. Integrating OPCOM's unique long wave, the plant growth rate is increased by 20%.

In the global leading position with patented design, up to 11 advanced intelligent AI (11A) smart containers developed independently. The investment you make will receive the highest return value.

It will provide you with high-quality seedlings, leafy vegetables, strawberry planting containers and hydroponic greenhouses at the most competitive cost.

The OPCOM high-yield container of AI intelligent control system will take you Entering a new generation of high-tech agriculture and achieving great success.

AI Hydroponics Container

Micro Green - OFC408L8MG

8A

8A Advantage Smart Container



1. **AIO** All-In-One container
2. **AEC** Auto Environment Control
3. **ARC** Auto Run Control
4. **ABC** Auto Brightness Control
5. **ACB** Auto Cloud Backup
6. **ASG** Auto Stimulating Grow
7. **APF** Auto Protection Function
8. **AHT** All Hydroponics Technique Supported

1. AIO: All-In-One Container

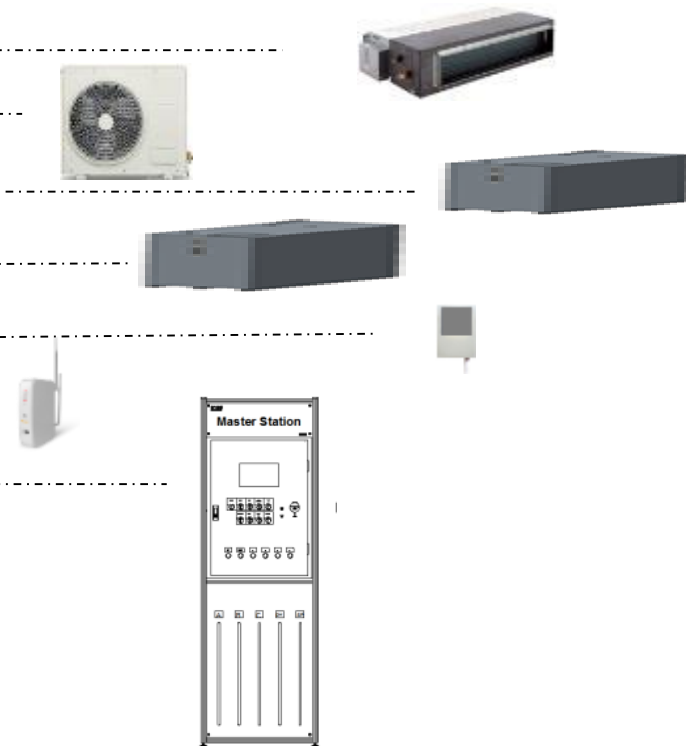


1.1, All in one device build inside container, it is very suitable for side by side and stackable placement, can save space.

1.2, Own CPU design, two ways long communication range protocol design to control and protect each device work well.

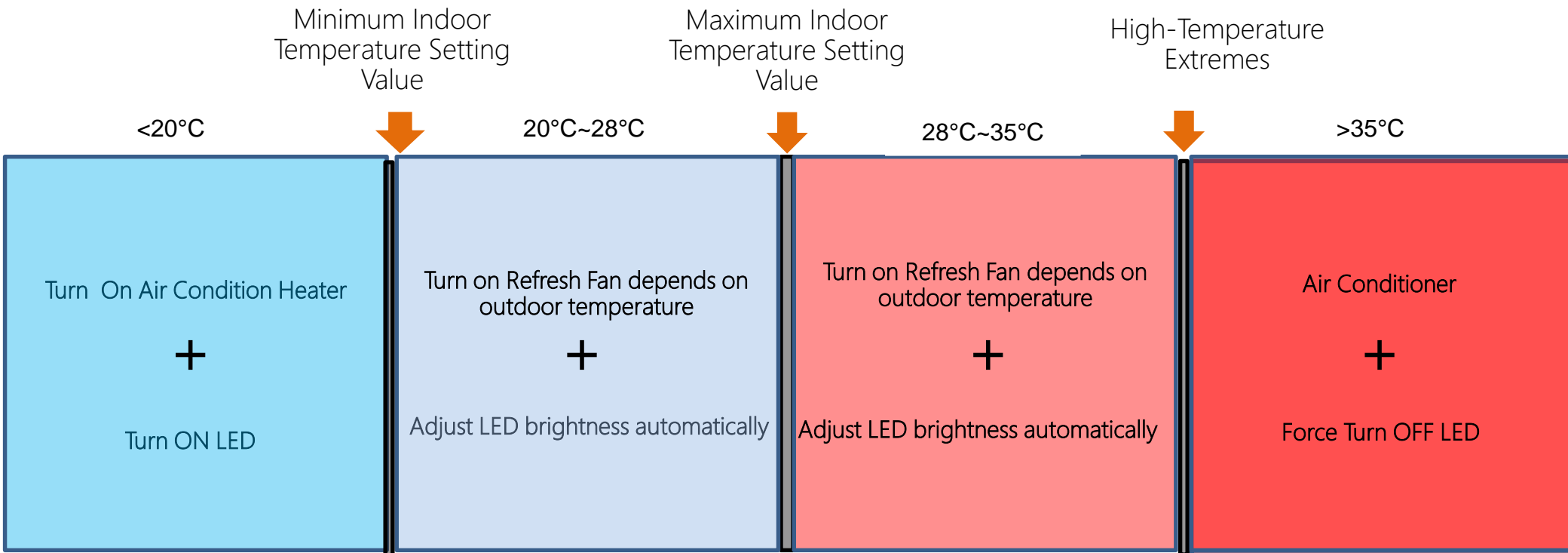
1.3, Fully Container without external devices includes

- Air conditioning indoor machine
- Air conditioning outdoor machine
- Nutrition water tank
- Fresh water tank
- 7 Environment sensors (Temp., humidity, CO2)
- Web cloud/ Web local OPCOM smart gateway
- OPCOM Master Station with Cloud control + RO + 5 in 1 auto dosing with EC. pH , Temp, RH sensor & 10" touch screen CCU & remotely upgrade

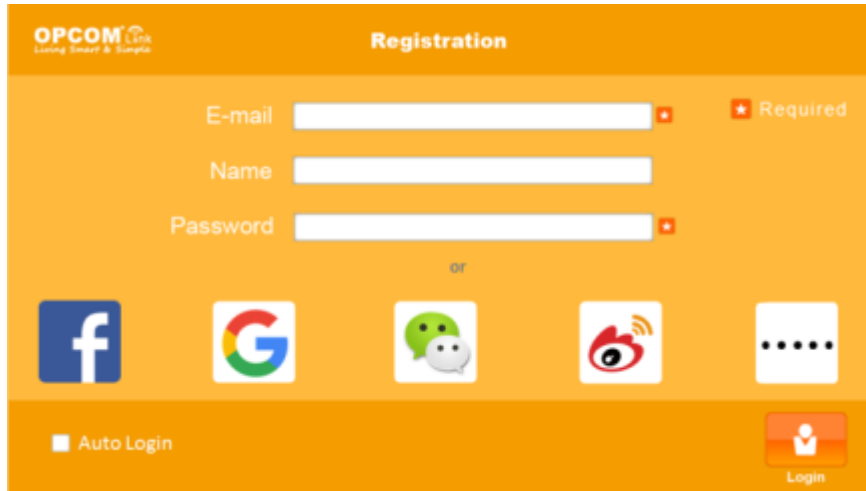


2. AEC: Auto Environment Control

- 1, High effective using nature environment, saving power.
- 2, OPCOM Algorithm to manipulate all parameters automatically. We logs lots of accurately sensors data to monitor all corner of your container



3. ARC : Auto Run Control



Login system to insure safety, and support social net work login



Fully automated smart interface



RGBW full spectrum light



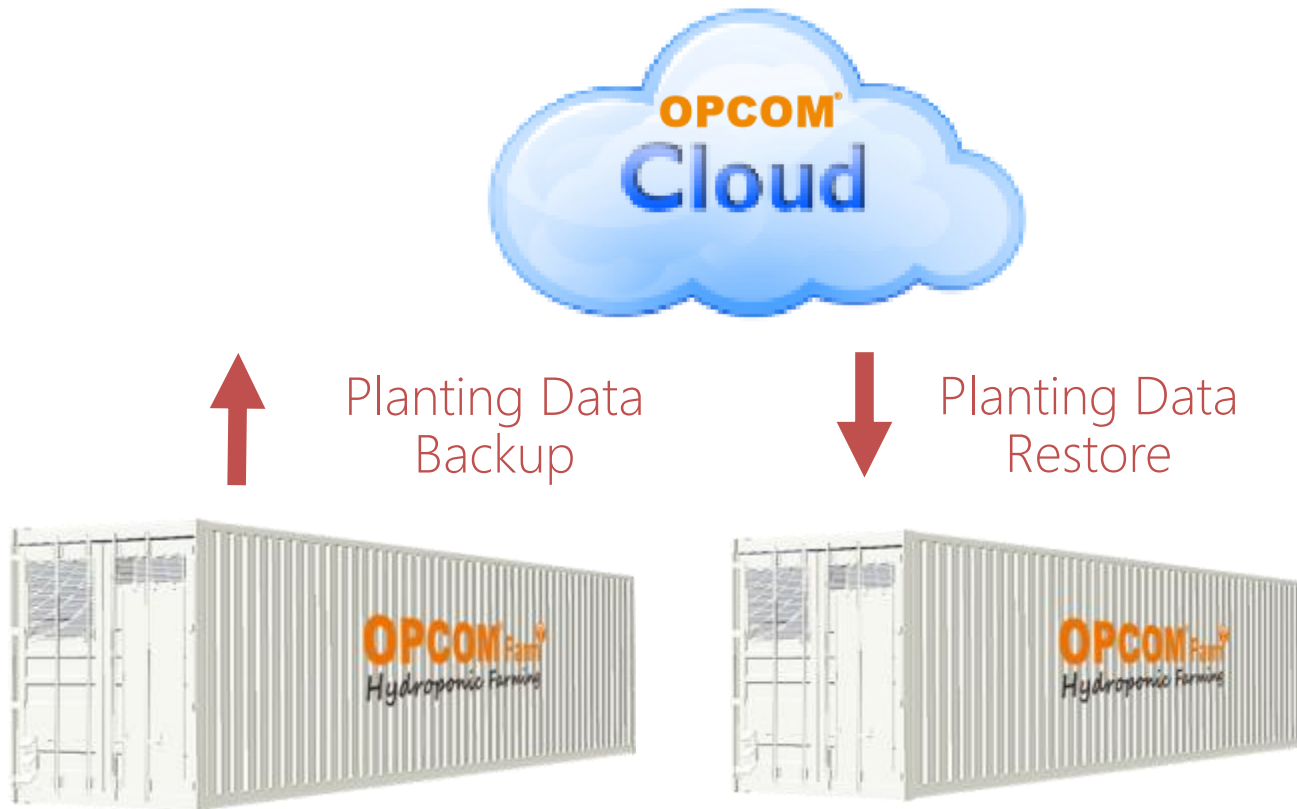
Auto dosing



Live view and storage time lapse

Easy to monitor plant and control full conditions

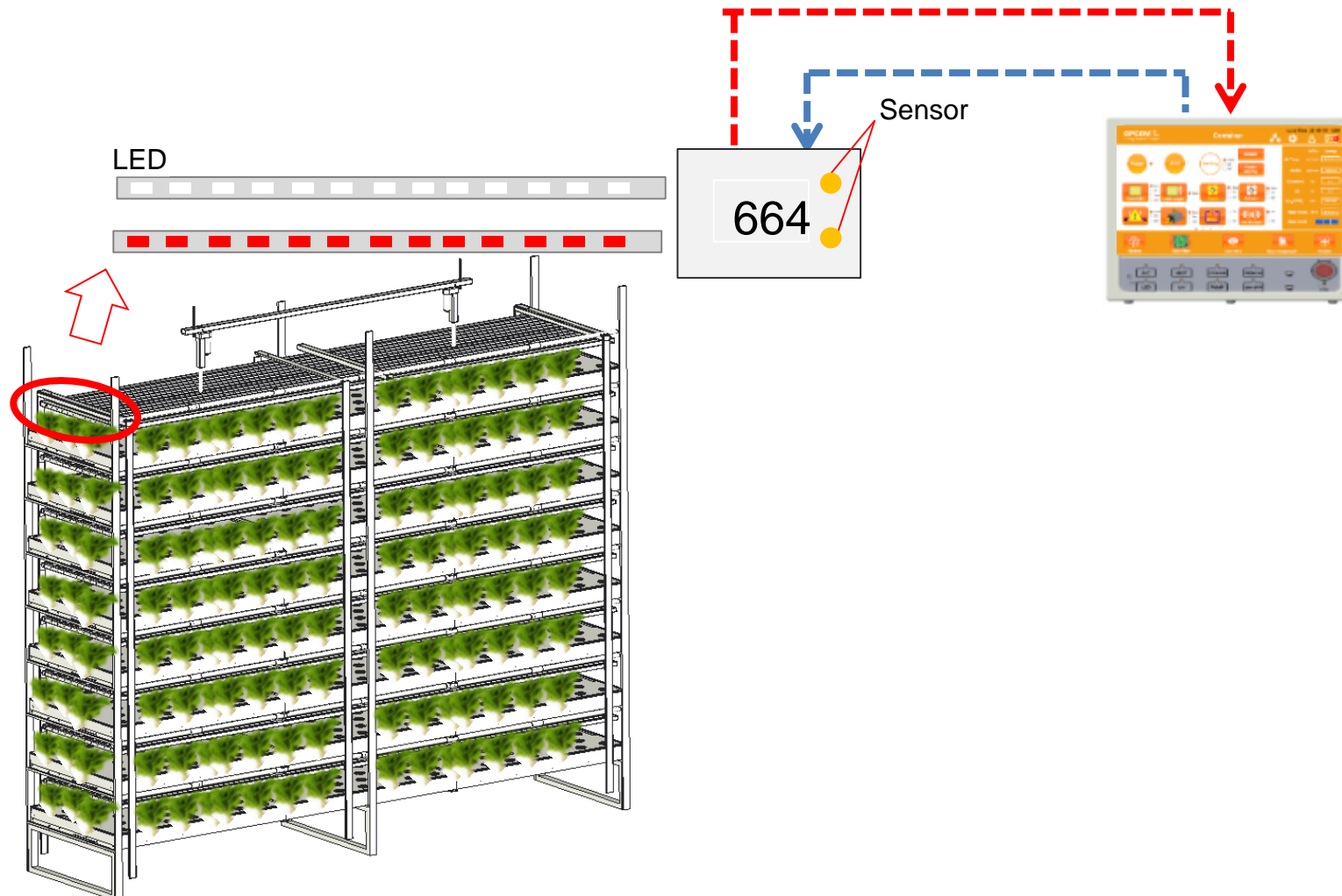
4. ACB: Auto Cloud Backup



5. ABC: Auto Brightness Control



Auto detect LED brightness patent design, will automatic adjustable power supply when LED light brightness drop to 70% to increase brightness.

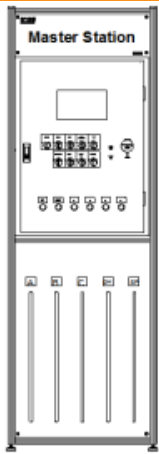


6. ASG: Auto Stimulating Plants Grow ❖❖❖



OPCOM Wave delivery specific microwave energy to each plant growing fast up to 20%.

7. APF: Automatic Protection Function



Master Station

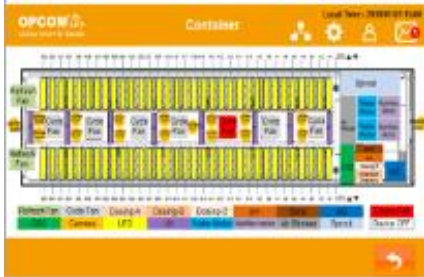


Mobile App

5 Way to control,
10" touch screen CCU, Hard Key, Distribution Box, Inside
Clean Room Control and Mobile App To control the
container anytime, anywhere.

Warning and Caution Notification, Let you prevent the
fatal error.

Precise AC Power Regulator (220V+/-1% , up to 30KVA)
provides the stable power source.

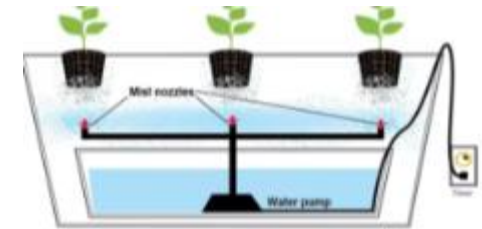
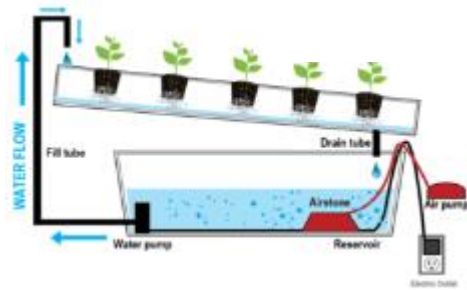


8. AHT: All Hydroponic Technique Supported

Nutrient Film Technique (NFT System)
Grow Frame / Grow Wall / Grow Wall 2
OFC408L8, OHF-LN-0852

Deep Flow Technique (DFT System)
Grow Box / Grow Box 2 / O2 Gadren
OFC406-S, OHF-VA-0852

Aeroponics System
Grow Tank / OFC 408L3

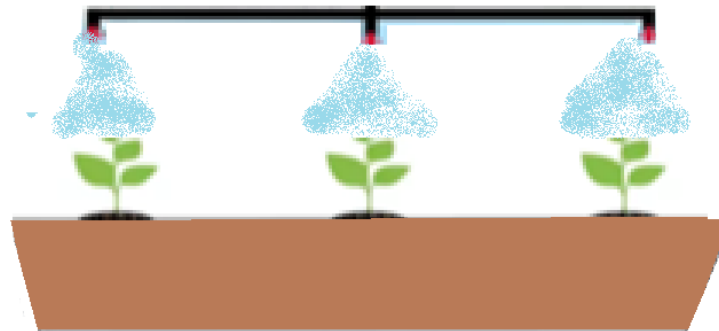


70 µm mist

OPCOM's Container Support All Hydroponic Technique

Media tillage (micro spray system)

OFC408L8MG



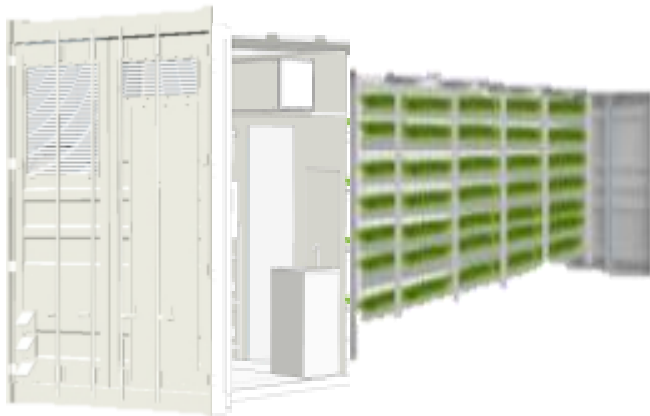
**OPCOM's
container
Also support
media tillage**

OPCOM[®]

Hydroponic Farming

AI Hydroponics Container

MicroGreen- OFC408L8MG





OFC408L8MG 40 ft. AI Smart Seedling Container

High Capacity 8 layer Grow System

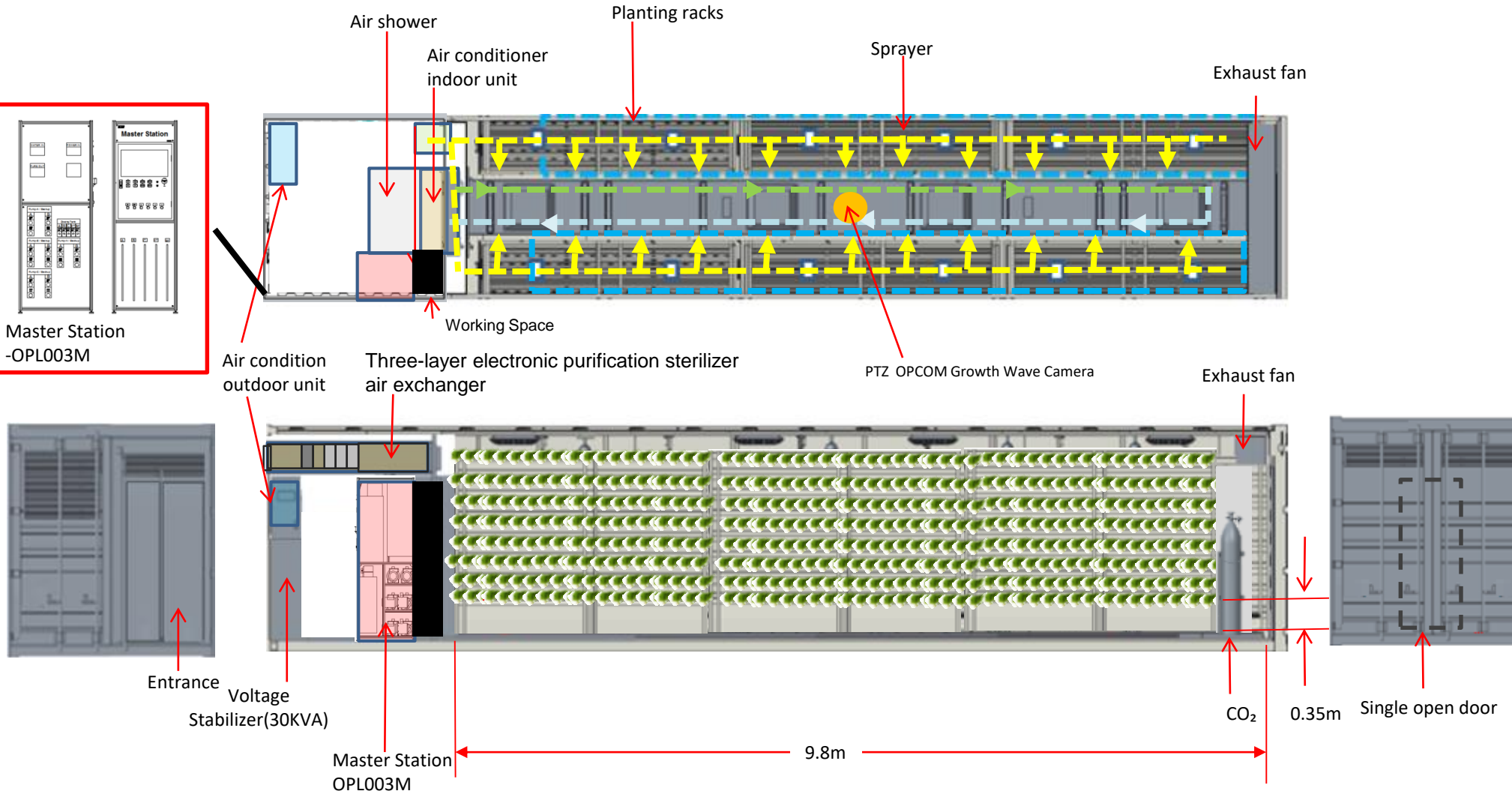
Features:

- 40ft closed environment container design for mass production. Saving over 50% space, less labor and high value yield.
- Customized App to fulfill wide variety crops.
- Bundled with central control 10" touch screen CCU operates every grow machine simultaneously.
- OPCOM Advanced patent design 8A technology.
(AIO、AEC、ARC、ABC、ACB、ASG、APF、AHT).
- Smart OPCOM Link App automatically handles full growing condition with interactive control:
 - Smart light mode controls different parameter of full color spectrum lighting.
 - Smart Air mode interacts based on In/Outside thermometer / hygrometer to maintain best condition inside container.
 - Smart water feeding system to keep best water condition by schedule or pH/EC meter with Tri- liquid auto feeding system (a fertilizer liquid, A /B/C pH+ /pH liquid)
- High Capacity with short grow time Microgreen 100m² per cycle, 50% more space than others container.
- Special Photocatalysis-coat design to stop algae growing on the machine, which can keep the water pipes clean and help plants grow better.
- OPCOM cloud data analysis, thru algorithm exactly control plants each stage grow data to give plants good care.

	OFC408MG	SPECIFICATION
Planting Amount	Microgreen Planting area: 0.7m * 1m * 8Layer * 18 sets (50% more space than others)	100 m ²
Power Consumption (AVG/Day)	220V ± 10%	Auto: 148 KWH #1 Max: 177 KWH #2 Min.: 61 KWH #3
LED	7,776 W (96 pcs * 81 W)	>120 umol / m ² / s @ 18cm
Air	Air Condition	3P
	Fan	275w * 3 pcs
	Air Sensor	6pcs 2 IN 1 Sensor (Temp. + Hum)
		1pcs 3 IN 1 Sensor (Temp. + Hum+ Co2)
CO ₂ Generator	1pc	
Water	Water Tank	1.1t
	Nutrient Tank	2.1t * 2pcs
	Pumping motor	0.375kw
	Nutrient motor	<505ml / min / 6-16w
	RO filtered water	1,135 L / 300 gallon / day
	EC/pH/ water level sensor	EC / pH /Level meter by Auto test
Equipment	PTZ OPCOM Growth Wave Camera	22X x 1 pcs
	Voltage Stabilizer	30KVA
	Container	40' HC
	Weight	8 ton

Remark: #1: Daily Light 16hours + A/C 6hours + Ejector Fan 18hours #2: Daily Light 18hours + A/C 24hours + Ejector Fan 18hours #3: Daily Light 6hours + A/C 3hours + Ejector Fan 18hours

OFC408L8MG 40fit AI Smart Seedling Container Placement



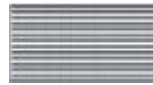
OFC408L8MG 40ft. AI Smart Seedling Container

Equipment List



	Item	OFC408MG	Quantity
LIGHT	1	Grow Light	96
	2	UV Light	3
	3	Indoor Light	2
	4	Emergency Light	1
AIR	5	A/C 3 P	1
	6	HEPA Filter	1
	7	Exhaust fan	3
	8	CO ₂ Generator	1
WATER	9	Fresh Water Tank	1
	10	Nutrient Water Tank	2
DEVICE	11	Air Shower	1
	12	Grow Machine	6
	13	Extension Socket	1
	14	Voltage Stabilizer(30KVA)	1
	15	EC/pH Detector sensor	1 / 1
	16	2 IN 1 Sensor (Temp. + Hum)	6
	17	3 IN 1 Sensor (Temp. + Hum+ Co ₂)	1
	18	663C (LED control)	6
	19	664C (Pump/other device control)	5
	20	660 (Sensor control)	3
	21	40" Container	1
Master Station	22	RO + 5 in1 Dosing + PUMP *6 +10" touch screen CCU +	1

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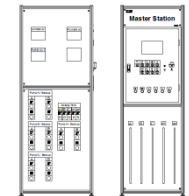
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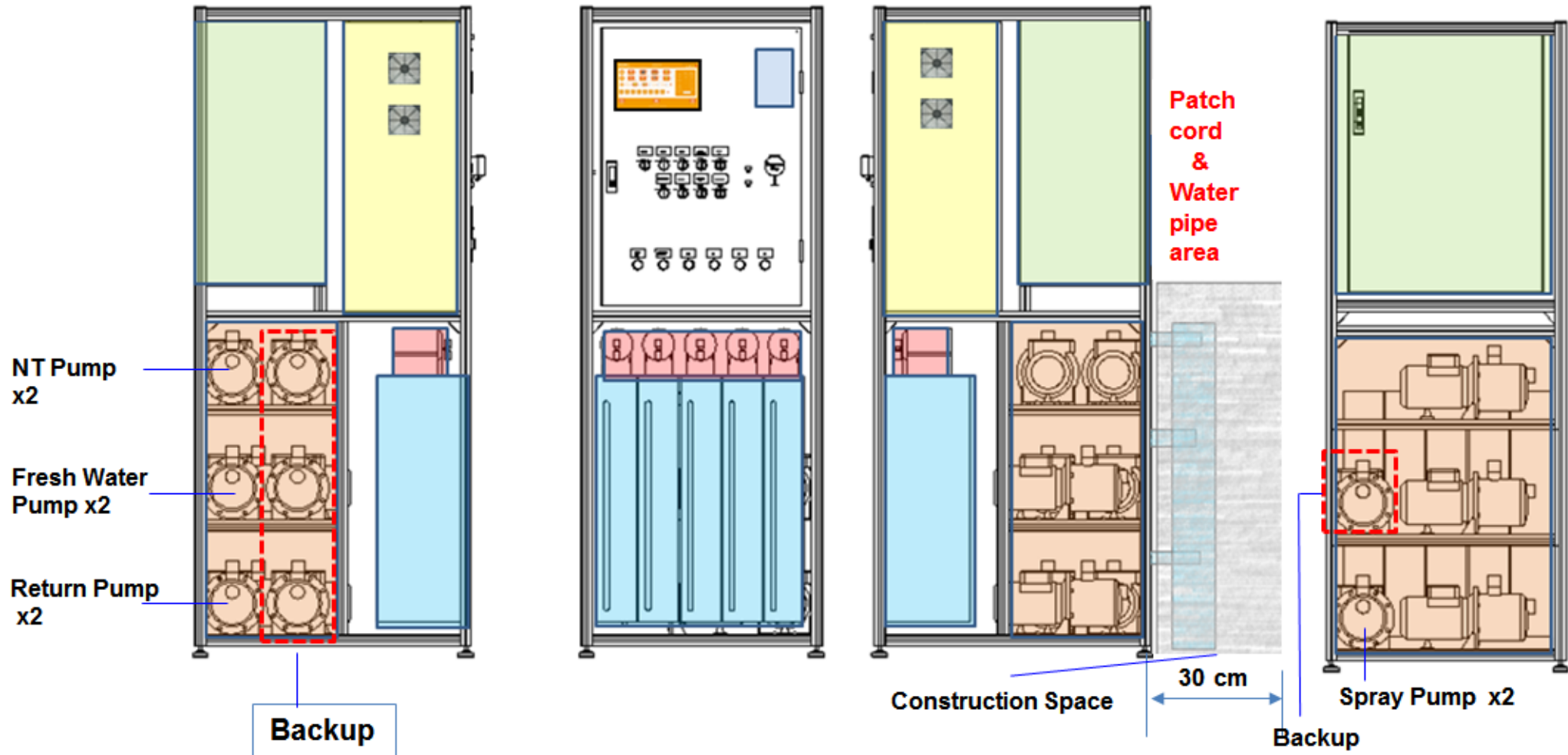
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OPCOM[®]
Hydroponic Farming

Master Station

Master Station-T- Inside Layout Placement



	UPS		Dosing Tank		PUMP(USE/Backup)
	Electronic Power Box		Dosing Motor		Fan*4
	RO		10" Touch Screen CCU		