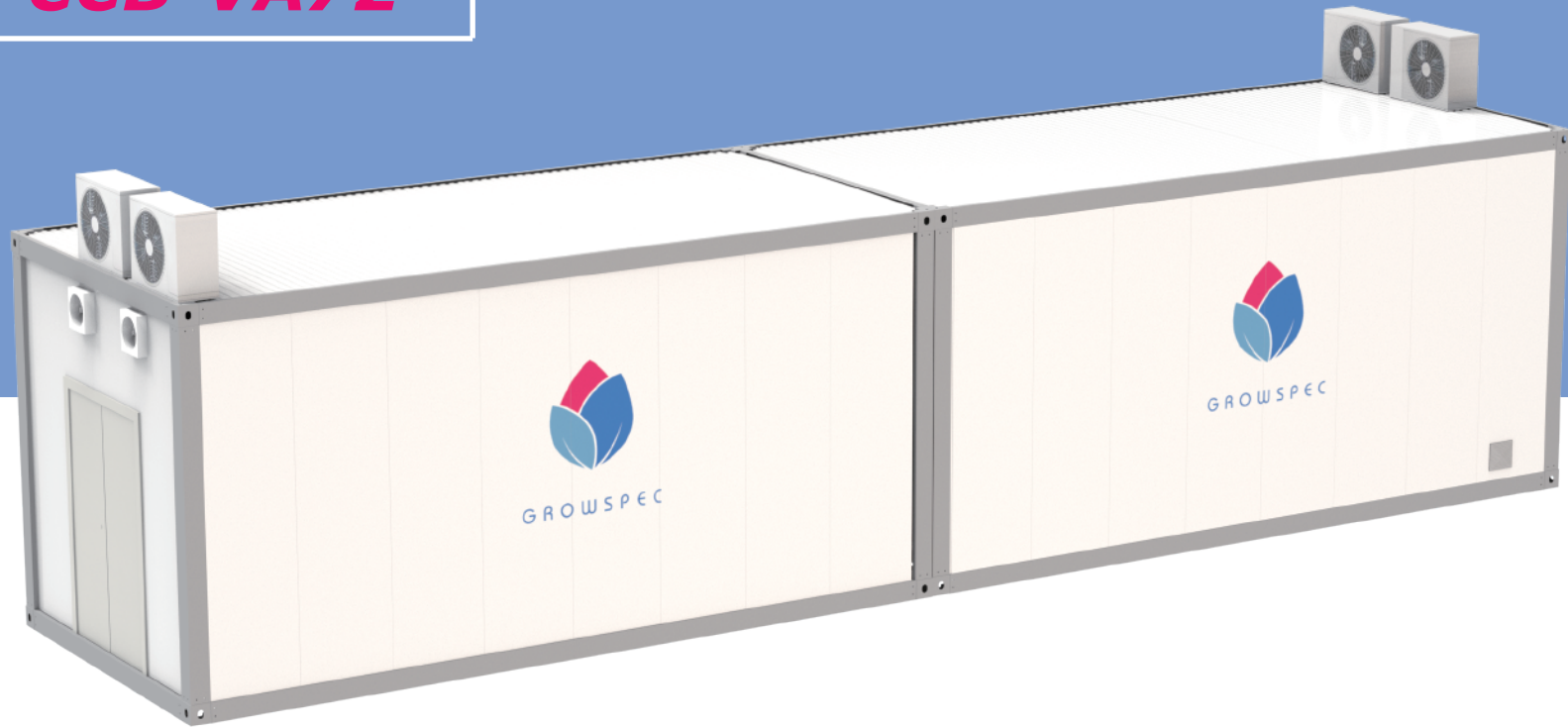


Modularized Total Solution

GROW CHAMBER

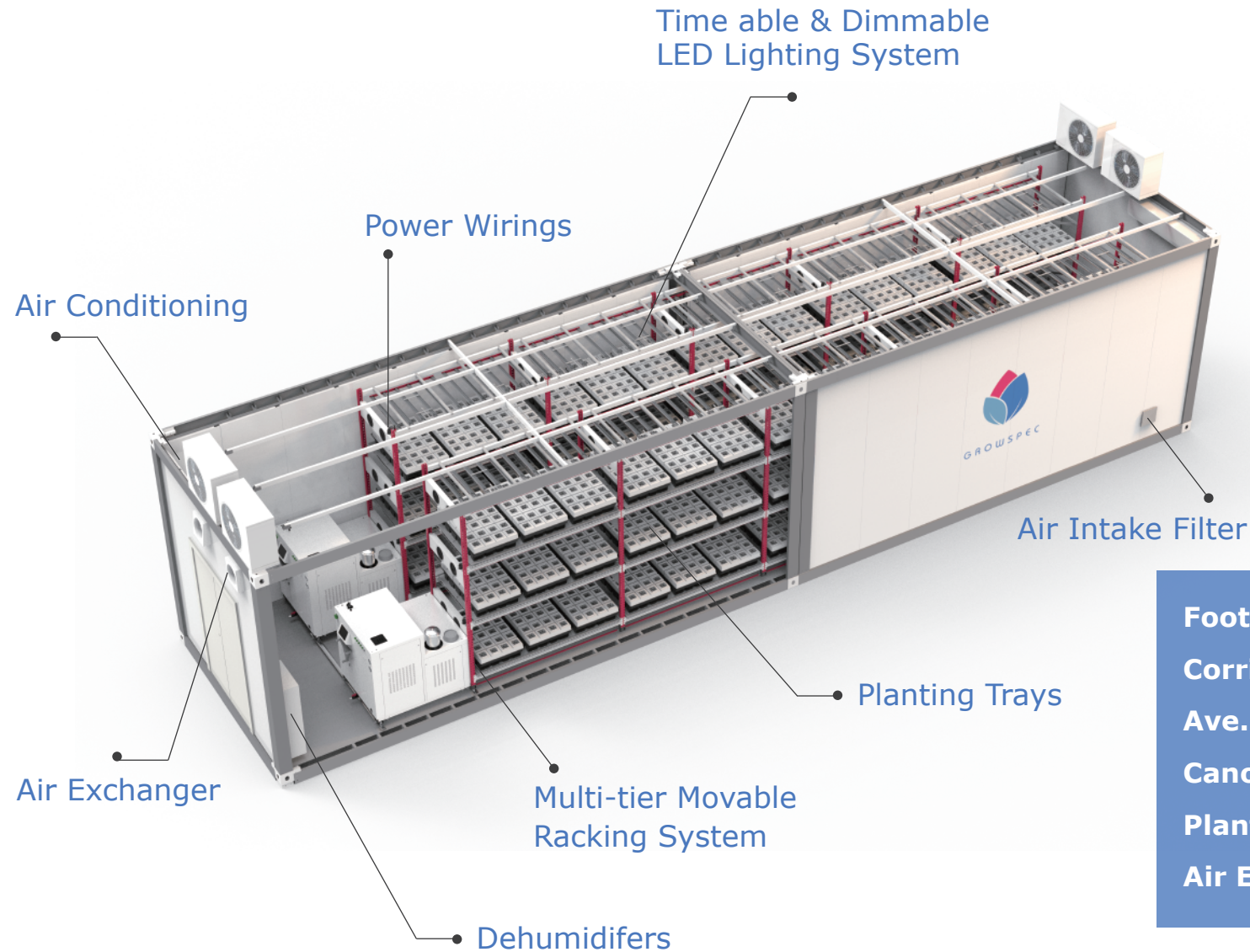
CCB-VA72



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GrowSpec Grow Chamber is a prefabricated modularized grow room designed for CEA(Controlled Environment Agriculture) cultivation.

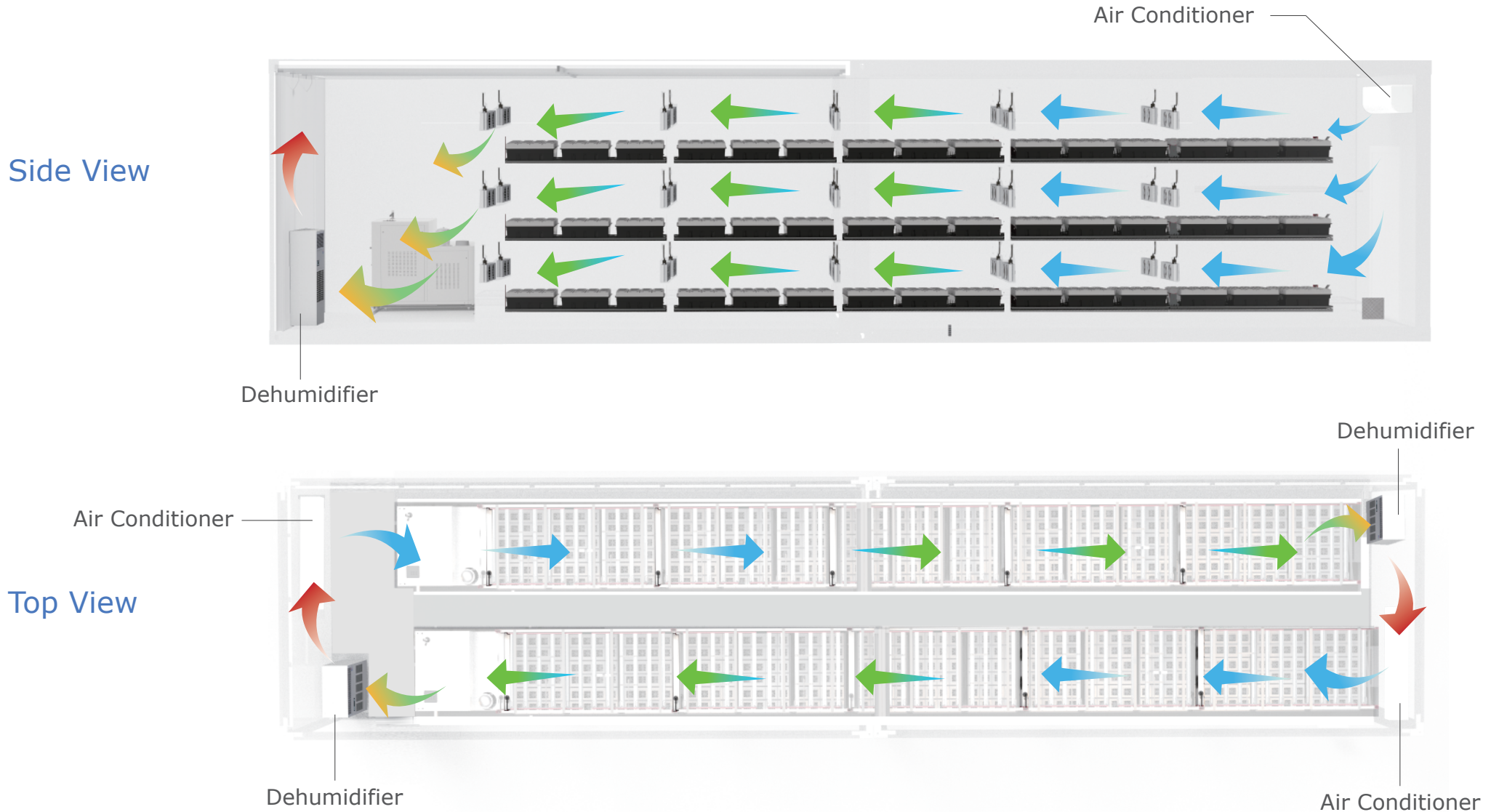


FootPrint Area: 651sq.ft
Corridor With: 4ft X 51ft
Ave. Wind Speed: 1.2m/s
Canopy Area: 960 sq.ft
Plant QTY: 2,160 (Vegetative/Flower)
Air Exchange: 10-15 times/hr

Indoor Air Dynamics

■ Dry/Cold Air ■ Wet/Cold Air ■ Dry/Hot Air ■ Wet/Hot Air

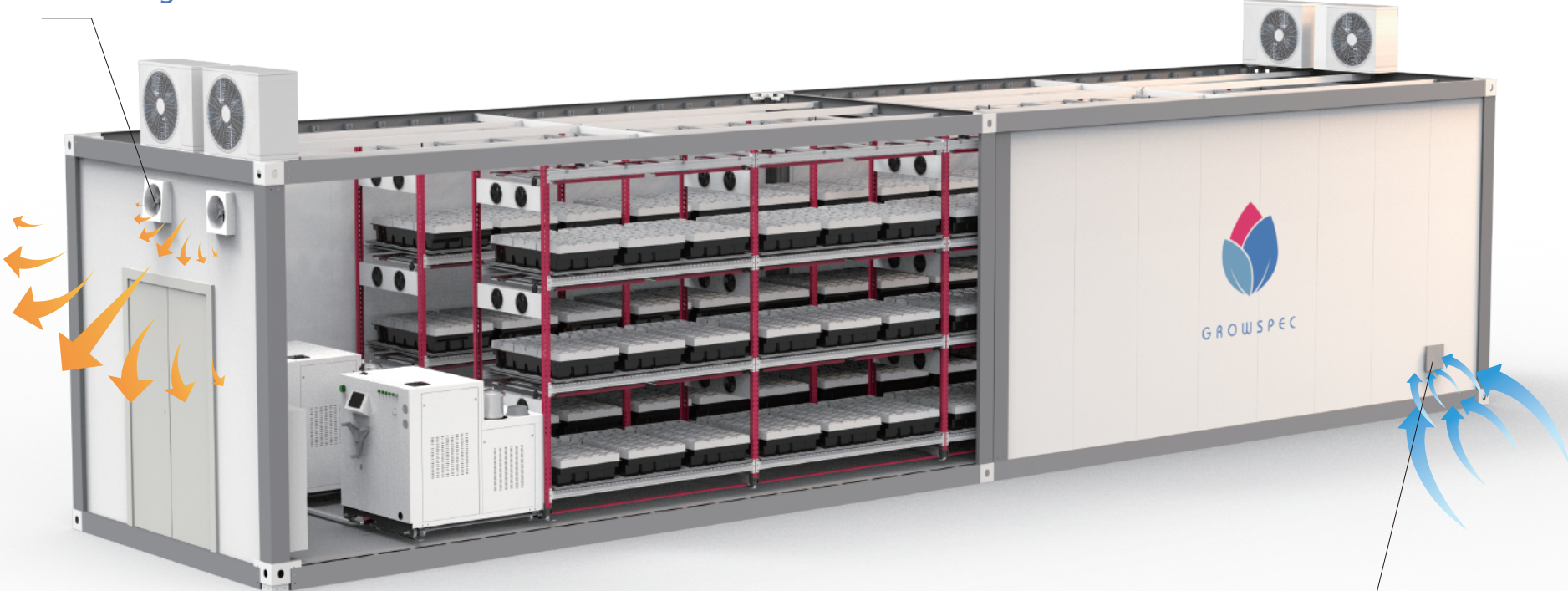
Our indoor air dynamic design makes the air speed, temperature, humidity and CO₂ density evenly distributed throughout the grow chamber.



Internal and External Air Circulation

It is recommended after closing of 2 hours of LED can exhausts the air up to the 6th hour.

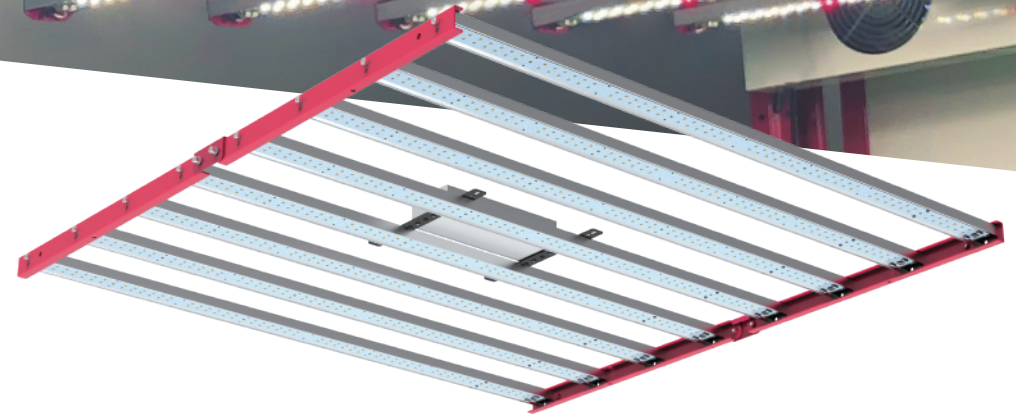
Air Exchanger



Air Intake

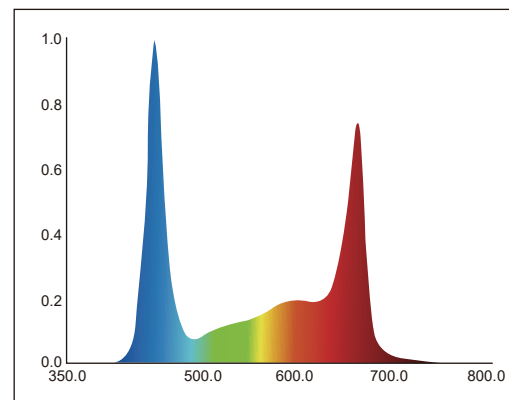


Plant Lighting

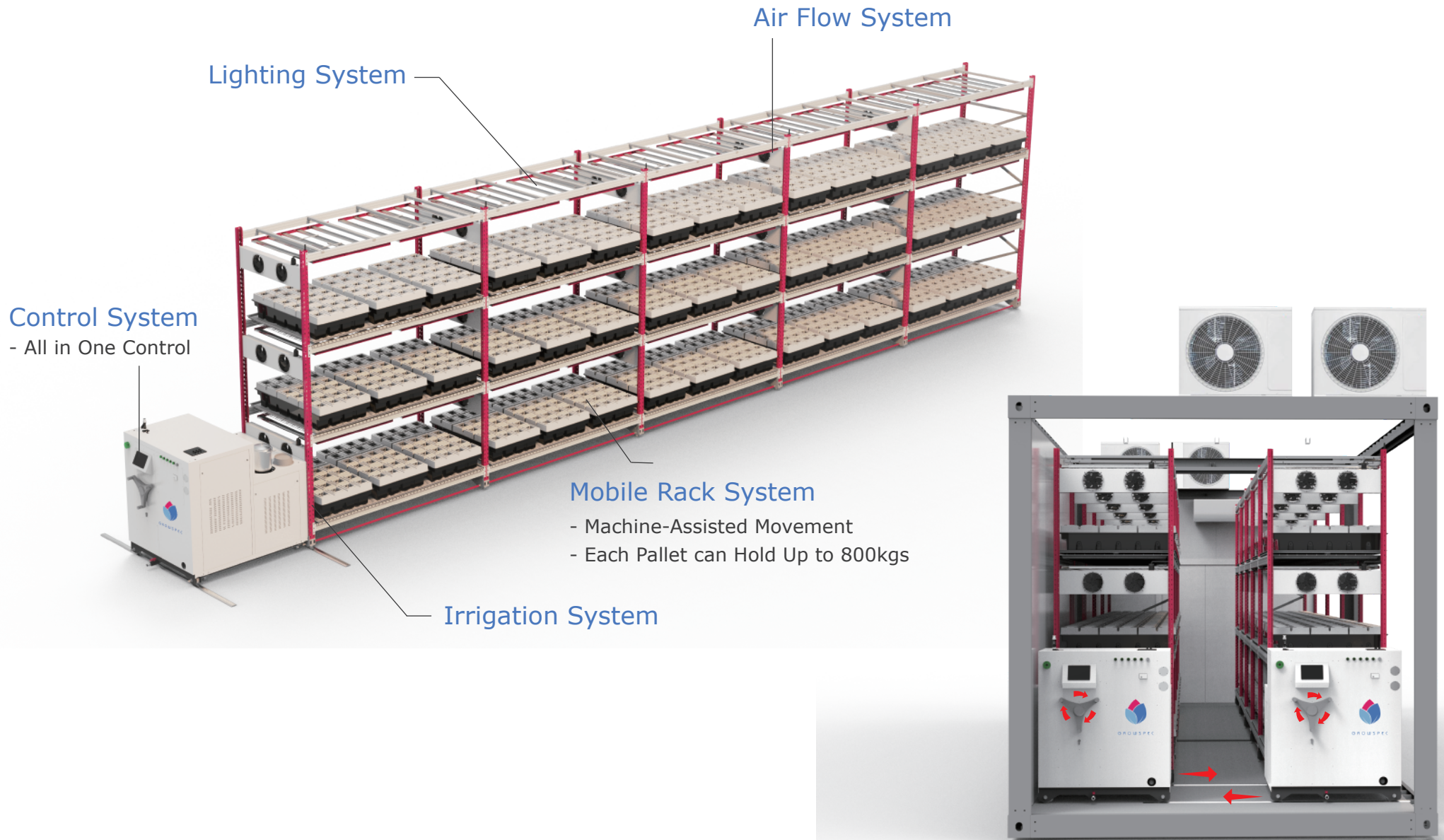


Model	VB320
Power	320W(4x4ft)
PPE	2.6 $\mu\text{mol}/\text{j}$
PPFD @ 1ft/30.48cm	410 $\mu\text{mol}/\text{m}^2/\text{s}$
PPFD @ 2ft/60.96cm	312 $\mu\text{mol}/\text{m}^2/\text{s}$
Input Voltage	100-277V AC
Cooling	Passive
Light Source	LED
Light Mounting Height	8" above
Spectrum	Full Spectrum
Dimmer	Yes
IP	IP65

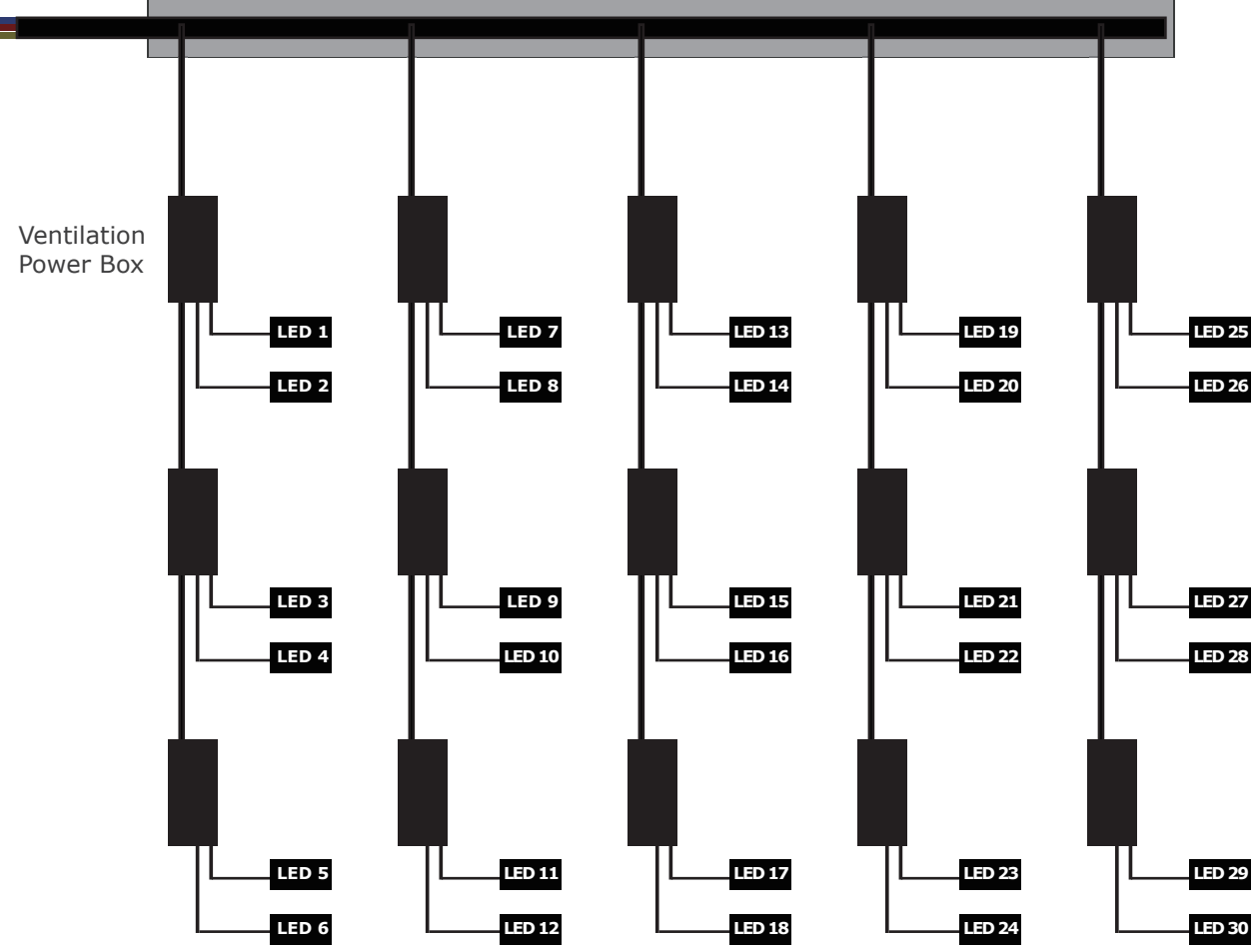
Spectrum



Multi-tier Movable VertiAero(VA72) Racking System



Wiring Diagram



Temperature & Humidity Control

Air Conditioner



Model	36000 BTU						
Power Supply	230V-/60Hz/4P						
Cooling	Rated Capacity	BTU/h	36,000	Net dimensions (WxDxH)	Indoor	mm	1,186 × 340 × 260
	Rated SEER	BTU/W.h	17.0			inch	46".69 × 13".38 × 10".23
	Rated EER	BTU/W.h	9.0		Outdoor	mm	900 × 360 × 805
Heating	Rated Capacity	BTU/h	36,000			inch	35".43 × 14".17 × 31".69
	Rated HSPF IV	BTU/W.h	8.5		Packing dimensions (WxDxH)	Indoor	mm
Suitable Area	m ²	30-48					inch
Indoor noise level at cooling (Hi / Med /Lo)		dB(A)	50/46/42	Outdoor		mm	1,028 × 865 × 475
Outdoor noise level		dB(A)	58		inch	40".47 × 34".06 × 18".70	
Connecting Pipe	Gas	inches	5/8"	Net weight	Indoor	kg/lbs	17.5/38.6
	Liquid	inches	1/4"			Outdoor	kg/lbs
Gross weight	Indoor	kg/lbs	21.5/47.4	Loading Capacity 40'HQ		100	
	Outdoor	kg/lbs	69/152.1				

Dehumidifier



A Traditional 500pints dehumidifier will generate about 35K BTU heat. Our dehumidifier will not generate but reduce 23K BTU heat !

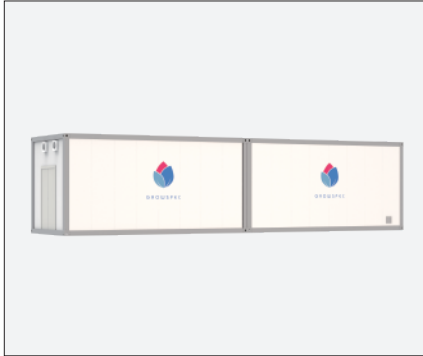
Model	GSDL240C
Voltage	220V 60Hz
Capacity 27 °C , 60%	6kg/h
Capacity 30 °C , 80%	240kg/D
Capacity 35 °C , 90%	336kg/D
Control precision	±3%
IP Level	IP21
Air circulation of indoor machine	79db
Air circulation of outdoor machine	3,000m ³ /h
Rated power 27 °C/60%RH	2,600W
High temperature power 30 °C/80%RH	3,000W
Max power 35 °C/90%RH	3,500W
Refrigerant/quantity	R410A/1,800g
Protection against electric shock type	I
Indoor machine size	640×435×1,800mm
Outdoor machine size	880x360x800mm

Materials Configuration

Standard Box	External Dimension(L*W*H)	16,000mm*4,000mm*4,000mm		
	Inside Dimension(L*W*H)	15,850mm*3,850mm*3,850mm		
Indicator	Heat Insulation Performance	$\lambda=0.0135W/m\cdot K$	Wind Resistance Performance	0.60kN/ m ²
	Sound insulation Performance	Sound Insulation $\geq 30dB$	Fire Resistance Performance	Level B
	Waterproofness	Arched roof, diversion on side, gravity drainage	Seismic Performance	Level 8
	Floor Live Load	2kN/ m ²	Roof Live Load	1.0kN/ m ²
Structure	Main Materials	Galvanized Floor Frame Beam 160mm Thickness 2.5mm		
		Galvanized Roof Frame Beam 160mm Thickness 2.5mm		
		Precision Rolling Galvanized Column 160mm Thickness 2.5mm, Texture 235		
	Structure Connection	M12 x 35 High-Strength Carriage Bolt		
	Surface Treatment	Electrostatic Plastic Spray Baking Varnish		
Wallboard	Polyurethane sandwich panels	Color Steel Composite Board Thickness 75mm, Color steel board thickness 0.42mm, color white, both side flat no embossing		
Roof	Roof Panel	Roofing Tile: 980 color steel single panel, thickness 0.42mm		
		950 color steel panel, Polyurethane sandwich panels		
Floor	Structural Slab	High-Strength Glass Magnesium Floor		
Door	Double-door	Steel Door, Dimension $\geq W1,880 \times H2,050mm$, Stainless Steel Latch		
Decoration	Inner Decoration Angle	Internal Angles 40*40*0.5mm, Color Steel parts		

Packing List

Standard



Chamber x 1



VA72 Grow System x 2



Air Conditioner x 2



Dehumidifier x 2

Optional



Fan Filter &
UV sterilizer System



Nutrient Dosing System

GROW CHAMBER



GROWSPEC

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