

500L SPECIFICATION SHEET

BI-RI-PG-500



ITEM	DESIGNATION
1	Cooling System
2	HMI & Power Key Switch
3	Side Vents
4	Door Handle
5	Condensation Free Observation Window & Light Tight Cover

Weights and Dimensions

	INTERIOR		ASSEMBLED PRODUCT		SHIPPING	
	Metric (mm)	Imperial (in)	Metric (mm)	Imperial (in)	Metric (mm)	Imperial (in)
Height	1300	51.18	2050	80.7	-	-
Width	630	24.8	1030	40.55	-	-
Depth	665	26.18	1070	42.12	-	-

	NET WEIGHT		GROSS WEIGHT		WEIGHT LIMIT PER TRAY	
	Metric (kg)	Imperial (lb)	Metric (kg)	Imperial (lb)	Metric (kg)	Imperial (lb)
Weight	-	-	400	882	30	66.14

500L Standard Specifications

Growth Range	Working Volume	540 L	19.07 ft ³
	Growth Area		
	1 Tier	0.33 m ²	3.55 ft ²
	2 Tier	0.66 m ²	7.1 ft ²
	3 Tier	0.99 m ²	10.65 ft ²
	4 Tier	1.32 m ²	14.2 ft ²
	5 Tier	1.65 m ²	17.75 ft ²
	Growth Height		
	1 Tier	1300mm	51.2 in
	2 Tier	650 mm	25.6 in
	3 Tier	433 mm	17.05 in
	4 Tier	320 mm	12.6 in
	5 Tier	260 mm	10.3 in
	Atmosphere Control	Temperature Control Accuracy	0.1 °C
Temperature Uniformity, at 20°C (68°F)		0.5 °C	1 °F
Working Temperature Range, Lights On		10 to 45 °C	41 to 113 °F
Working Temperature Range, Lights Off		0 to 60 °C	32 to 140 °F
Humidity Setting Accuracy		1%	
Humidity Fluctuation, at 80% RH Lights Off		(+/-) 5%	
Humidity Uniformity, at 80% RH Lights Off		(+/-) 10%	
Humidity Setting Range, Lights On		50 - 85% RH	
Humidity Setting Range, Lights Off		50 - 95% RH	
Humidifier Type		Ultrasonic	
Ramping Capability for Temperature & Humidity		1 PPM	
Electrical and Safety		Power Required	230V / 50Hz / 60Hz
	Max. Electrical Current	10A	
	Electrical Safety	Overcurrent NFB protection	
	Compressor Safety	Delay start protection, overload alarm	
Cooling Systems	Hot Gas Bypass System	Y	
	Water- or Air-Cooled Condenser	Y	
	Solenoid Valves	Y	
	Defrosting System (Time Adjustable)	Y	
	CFC Free Refrigerant	Y	
	Forced Air Circulation	Side to Side	

LED Compatible	Standard LED Light	Z190 I Z4N / Z41 N / Z4WN / Z9	
	PAR pmol/m2, at 15cm (PFD)	<400	
	Plate Size, Depth	400 mm	15.75 in
	Plate Size, Width	600 mm	23.62 in
	Plates per Tier	1	
	Adjustable Intensity	0 - 100%	
	Low Heat Load	Y	
	Light Direction	Omnidirectional	
	Uniformity	Excellent	
	Long life Span	Y	
	Channel Control	1 Channel	
	Fully Programmable	Y	
HMI Control Panel	LED Touch Screen	177.8 mm	7 in
	Password	Pin protected, Three-level access	
	Data	USB Connection, Data export and import	
	Historical Data	12 Months	
	Alerts	Alarm notifications and records, Low and high temperature tracking	
	Remote Access	Real-time monitoring of all control processes	
	No. Programs & Steps	Customisable	
	Support	Customised HMI and local engineering support	
Standard Features	Style	Single Compartment	
	Door	Single door (front and back) Open right outside, 1st fully insulated, 2nd safety Single door (two side) Open right outside, 1st fully insulated, 2nd safety anti-condensation tempered glass observation window	
	Observation Window	Light tight cover, condensation free	
	Exterior Material	Powder coated Steel	
	Installation	Four caster wheels with levelling feet	
	HVAC	Internal	
	Shelving Tiers	5 stainless steel tray	
	Interior	Stainless Steel	
	Insulation (PU)	50 mm	1.97 in
	Power Connection	Mains cable with plug or NFB	