## **SPECIFICATION SHEET**

# 1400L SPECIFICATION SHEET BI-RI-PG-1400



ITEM	DESIGNATION	
1	Cooling System	
2	HMI & Power Key Switch	
3	Door Handle	
4 Condensation Free Observat Window & Light Tight Cover		
5	Side Vents	
6	Adjustable Feet	
7	Industrial Caster Wheel	

#### **Weights and Dimensions**

	INTERIOR		ASSEMBLED PRODUCT		SHIPPING	
	Metric (mm)	Imperial (in)	Metric (mm)	Imperial (in)	Metric (mm)	Imperial (in)
Height	1450	57.08	2075	81.7	2330	92
Width	1410	55.5	2050	80.7	2000	79
Depth	690	27.16	925	36.42	1210	48

	NET WEIGHT		GROSS WEIGHT		WEIGHT LIMIT PER TRAY	
	Metric (kg)	Imperial (lb)	Metric (kg)	Imperial (lb)	Metric (kg)	Imperial (lb)
Weight	580	1279	745	1642	30	66.14

# biora

### **1400L Standard Specifications**

Image: space		Working Volume	1400	40 F #9		
Browth Range     Image: style		-		49.5 113		
Growth Ranee     Image: Imag				0.00/10		
Growth Range     Image     2.4 m2     2.9.06 ft2       Growth Range     3.8.75 ft2     38.75 ft2       Growth Range     Growth Height     3.8.75 ft2       Image     11 fter     1450 mm     57.1 in       Image     700 mm     27.6 in     3.1 mm       Image     460 mm     18.1 in     3.4 in       Image     3.4 mm     3.4 in     3.4 in       Image     3.1 mm     3.4 in     3.4 in       Image     3.1 mm     3.4 in     3.4 in       Image     3.1 mm     3.4 in     3.4 in       Image     3.0 mm     1.3 k in     3.4 in       Image     3.0 mm     0.1 °C     0.2 °F       Image     Morking Temperature Control Accuracy     0.1 °C     3.2 to 1.0 °F       Image     Image     1.0 to 45 °C     4.1 to 113 °F       Image     Morking Temperature Range, Lights Off     0.6 0 °C     3.2 to 140 °F       Image     Humidity Setting Accuracy     (+/-) 1.0 ·     Humidity Setting Range, Lights Off     (+/-) 1.0 ·       Imaging Capability for Temp						
Growth Range Image and the set of t						
Growth Height       Image:						
Image: https://www.science.org/science.org	Growth Range	4 Tier	3.2 m2	38.75 ft2		
Image: Product of the system of the syst		Growth Height				
Atmosphere     Image: Control Accuracy     A60 mm     18.1 in       Atmosphere     Temperature Control Accuracy     0.1 °C     0.2 °F       Morking Temperature Uniformity, at 20°C (68°F)     0.5 °C     1 °F       Working Temperature Range, Lights 0n     10 to 45 °C     41 to 113 °F       Working Temperature Range, Lights 0n     0 to 60 °C     32 to 140 °F       Humidity Setting Accuracy		1 Tier	1450 mm	57.1 in		
4 Tier 340 mm 13.4 in   Temperature Control Accuracy 0.1 °C 0.2 °F   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 (+/-) 10%   Humidity Setting Range, Lights Off (+/-) 10%   Humidity Setting Range, Lights Off 50 · 85% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 50 · 95% RH   Humidity Setting Range, Lights Off 10 ×   Safety 10 ×   Humidity Setting Range, Lights Off 0 ×   Max. Electrical Safety 0 ×   Overcurrent NFB pr		2 Tier	700 mm	27.6 in		
Image: Provide the system of the s		3 Tier	460 mm	18.1 in		
Atmosphere Control     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     (+/-) 10%       Humidity Uniformity, at 80% RH Lights Off     (+/-) 10%       Humidity Setting Range, Lights Off     50 - 85% RH       Humidity Setting Range, Lights Off     50 - 95% RH       Humidity Setting Range, Lights Off     50 - 95% RH       Humidity Setting Range, Lights Off     230V / 50Hz / 60Hz       Ramping Capability for Temperature & Humidity     1PPM       Atmosphere     0vercurrent NFB protection       Safety     Electrical Safety     Overcurrent NFB protection       Cooling System     Hot Gas Bypass System     Y       Water- or Air-Cooled Condenser     Y     Y       Defrosting System (Time Adjustable)     Y     Y		4 Tier	340 mm	13.4 in		
Atmosphere Control     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     (+/-) 10%       Humidity Uniformity, at 80% RH Lights Off     (+/-) 10%       Humidity Uniformity, at 80% RH Lights Off     (+/-) 10%       Humidity Setting Range, Lights Off     50 - 85% RH       Humidity Setting Range, Lights Off     50 - 95% RH       Humidity Setting Range, Lights Off     000 - 95% RH       Humidity Setting Range, Lights Off     10 A       Solepatibility for Temperature & Humidity     1 PPM       Max. Electrical Current     100A       Safety     Overcurrent NFB protection       Compressor Safety     Delay start protection, overload alarm       Water- or Air-Cooled Condenser     Y       Solenoid Valves     Y       Defrosting System (Time Adjustable)     Y		Temperature Control Accuracy	0.1 °C	0.2 °F		
Atmosphere ControlWorking Temperature Range, Lights Off0 to 60 °C32 to 140 °FHumidity Setting Accuracy1%Humidity Fluctuation, at 80% RH Lights Off(+/-) 10%Humidity Uniformity, at 80% RH Lights Off(+/-) 10%Humidity Setting Range, Lights Off50 - 85% RHHumidity Setting Range, Lights Off50 - 95% RHHumidity Setting Range, Lights Off50 - 95% RHHumidity Setting Range, Lights Off10 - 95% RHBelectrical and Safety10 - 95% RHHumidity Setting Range, Lights Off0 - 95% RHHumidity Setting Range, Lights Off0 - 95% RHHumidity Setting Range, Lights Off0 - 95% RHSafety10 - 95% RHUnderstand10 - 95% RHSafety0 - 95% RHWater- or Air-Cooled CondenserYWater- or Air-Cooled CondenserYOberosting System (Time Adjustable)YCooling SystemYCooling System (Time Adjustable)Y		Temperature Uniformity, at 20°C (68°F)	0.5 °C	1 °F		
Atmosphere Control     Humidity Setting Accuracy     1%       Humidity Fluctuation, at 80% RH Lights Off     (+/-) 10%       Humidity Uniformity, at 80% RH Lights Off     (+/-) 10%       Humidity Setting Range, Lights Off     (-/-) 10%       Ramping Capability for Temperature & Humidifier Type     Ultrasonic       Ramping Capability for Temperature & Humidity     1 PPM       Ramping Capability for Temperature & Humidity     10A       Safety     Overcurrent NFB protection       Max. Electrical Safety     Overcurrent NFB protection       Compressor Safety     Delay start protection, overload alarm       Water- or Air-Cooled Condenser     Y       Solenoid Valves     Y       Defrosting System (Time Adjustable)     Y       CFC Free Refrigerant     Y		Working Temperature Range, Lights On	10 to 45 °C	41 to 113 °F		
Atmosphere Control     Humidity Fluctuation, at 80% RH Lights Off     (+/-) 10%       Humidity Uniformity, at 80% RH Lights Off     (+/-) 10%       Humidity Setting Range, Lights Off     (+/-) 10%       Humidity Setting Range, Lights Off     50 - 85% RH       Humidity Setting Range, Lights Off     50 - 95% RH       Humidity Setting Range, Lights Off     50 - 95% RH       Humidity Setting Range, Lights Off     00 - 95% RH       Ramping Capability for Temperature & Humidity     1 PPM       Ramping Capability for Temperature & Humidity     1 PPM       Safety     Power Required     230V / 50Hz / 60Hz       Safety     Electrical Safety     Overcurrent NFB protection       Compressor Safety     Delay start protection, overload alarm       Water- or Air-Cooled Condenser     Y       Vater- or Air-Cooled Condenser     Y       Defrosting System (Time Adjustable)     Y       CrCP Free Refrigerant     Y		Working Temperature Range, Lights Off	0 to 60 °C	32 to 140 °F		
ControlHumidity Fulctuation, at 80% RH Lights Off(+/-) 10%Humidity Uniformity, at 80% RH Lights Off(+/-) 10%Humidity Setting Range, Lights Off50 - 85% RHHumidity Setting Range, Lights Off50 - 95% RHHumidity Setting Range, Lights Off50 - 95% RHHumidity Gapability for Temperature & Humidity1 PPMElectrical and Safety7000Electrical Safety00vercurrent NFB protectionHot Gas Bypass SystemYWater- or Air-Cooled CondenserYSolenoid ValvesYDefrosting System (Time Adjustable)YYCFC Free RefrigerantY		Humidity Setting Accuracy	1%			
Humidity Setting Range, Lights On     50 - 85% RH       Humidity Setting Range, Lights Off     50 - 95% RH       Humidity Setting Range, Lights Off     50 - 95% RH       Humiditier Type     Ultrasonic       Ramping Capability for Temperature & Humidity     1 PPM       Betectrical and Safety     Power Required     230V / 50Hz / 60Hz       Electrical Safety     Overcurrent NFB protection     10A       Compressor Safety     Delay start protection, overload alarm       Water- or Air-Cooled Condenser     Y       Solenoid Valves     Y       Defrosting System (Time Adjustable)     Y       CFC Free Refrigerant     Y		Humidity Fluctuation, at 80% RH Lights Off	(+/-) 10%			
Humidity Setting Range, Lights Off     50 - 95% RH       Humiditier Type     Ultrasonic       Ramping Capability for Temperature & Humidity     1 PPM       Power Required     230V / 50Hz / 60Hz       Electrical and Safety     Max. Electrical Current     10A       Electrical Safety     Overcurrent NFB protection       Cooling Systems     Y       Mater- or Air-Cooled Condenser     Y       Solenoid Valves     Y       Defrosting System (Time Adjustable)     Y       CFC Free Refrigerant     Y		Humidity Uniformity, at 80% RH Lights Off	(+/-) 10%			
Humidifier Type     Ultrasonic       Ramping Capability for Temperature & Humidity     1 PPM       Power Required     230V / 50Hz / 60Hz       Belectrical and Safety     Max. Electrical Current     10A       Electrical Safety     Overcurrent NFB protection       Cooling Systems     Hot Gas Bypass System     Y       Solenoid Valves     Y       Defrosting System (Time Adjustable)     Y       CFC Free Refrigerant     Y		Humidity Setting Range, Lights On	50 - 85% RH			
Ramping Capability for Temperature & Humidity     1 PPM       Reserve a constraint of the second of the		Humidity Setting Range, Lights Off	50 - 95% RH			
Electrical and Safety     Power Required     230V / 50Hz / 60Hz       Image: Delevation of the stress of		Humidifier Type	Ultrasonic			
Electrical and Safety   Max. Electrical Current   10A     Electrical Safety   Overcurrent NFB protection     Compressor Safety   Delay start protection, overload alarm     Hot Gas Bypass System   Y     Water- or Air-Cooled Condenser   Y     Solenoid Valves   Y     Defrosting System (Time Adjustable)   Y     CFC Free Refrigerant   Y		Ramping Capability for Temperature & Humidity	1 PPM			
Licothol und Safety   Electrical Safety   Overcurrent NFB protection     Compressor Safety   Delay start protection, overload alarm     Hot Gas Bypass System   Y     Water- or Air-Cooled Condenser   Y     Solenoid Valves   Y     Defrosting System (Time Adjustable)   Y     CFC Free Refrigerant   Y		Power Required	230V / 50Hz / 60Hz			
Cooling Systems     Constant of the Adjustable     Control Contro Control Control Control Contro Control Control Cont	Electrical and	Max. Electrical Current	10A			
Hot Gas Bypass System     Y       Water- or Air-Cooled Condenser     Y       Solenoid Valves     Y       Defrosting System (Time Adjustable)     Y       CFC Free Refrigerant     Y	Safety	Electrical Safety	Overcurrent NFB protection			
Water- or Air-Cooled Condenser Y   Solenoid Valves Y   Defrosting System (Time Adjustable) Y   CFC Free Refrigerant Y		Compressor Safety	Delay start protection, overload alarm			
Solenoid Valves Y   Defrosting System (Time Adjustable) Y   CFC Free Refrigerant Y		Hot Gas Bypass System	Y			
Cooling Systems Y   Defrosting System (Time Adjustable) Y   CFC Free Refrigerant Y		Water- or Air-Cooled Condenser	Y			
Defrosting System (Time Adjustable) Y   CFC Free Refrigerant Y		Solenoid Valves	γ			
· · · · · · · · · · · · · · · · · · ·	Cooling Systems	Defrosting System (Time Adjustable)	Y			
Forced Air Circulation Horizontal (back to front)		CFC Free Refrigerant	Y			
		Forced Air Circulation	Horizontal (b	ack to front)		

### **SPECIFICATION SHEET**

	A	7100 7411 74		
LED Compatible	Standard LED Light	Z190, Z4N, Z41N, Z4WN, Z9		
	PAR pmol/m2, at 15cm (PFD)	<4		
	LED Light	LED lig	nt Plate	
	LED Lamp tiers (units)	4		
	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	١	,	
	Light Direction	Down	wards	
	Uniformity	Exce	llent	
	Long life Span	Y	,	
	Channel Control	1 Channel		
	Fully Programmable	Y		
	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		
HMI Control Panel	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		
	Style	Two Compartment		
	Door	Double door Open right and left outside, safety anti- condensation tempered glass observation window with tight cover		
	Observation Window	Light tight cover, condensation free		
	Exterior Material	Powder coated Steel		
Standard Features	Installation	Four caster wheels with levelling feet		
	HVAC	Internal		
	Shelving Tiers	4 stainless steel tray		
	Interior	Stainless Steel		
	Insulation (PU)	50 mm	1.97 in	
	Power Connection	Mains cable with plug or NFB		