



Australia's premium manufacturer  
of medical and laboratory products

## Product Specification Sheet

Series	Algae growth chambers LED Lighting Temperature and Humidity
Model	agc-rh-500

500 litre LED algae growth chamber  
Temperature and humidity control



\*Specifications subject to change without notice

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              LED Lighting  
              Temperature and Humidity  
Model      agc-rh-500

500 litre LED algae growth chamber  
Temperature and humidity control

Chamber capacity	500 Litres
Chamber width	700 mm
Chamber depth	600 mm
Chamber height	1136 mm
Chamber material	Stainless Steel 304L
External width	866 mm
External depth	784 mm
External height	1815 mm
External material	Durable epoxy powder-coated steel
Recommended clearance	75mm on sides and rear
Temperature range	4 to 50C
Temperature sensor	Pt100
Control accuracy	0.1 C
Temporal stability	0.2 C
Available shelf positions	12
Shelves supplied	3
Shelf dimensions	690 x 590 mm
Shelf spacing	89 mm
Shelf capacity	50 KG
Insulation type	Mineral Wool - asbestos free
Insulation thickness	50mm
Compressor size	1/3 HP
Refrigerant	CFC-Free R134a
Lighting source	Bi-Directional (up/down) Waterproof LED Cassettes Lighting directly above and below entire shelf
Growth area	0.4m <sup>2</sup> (per shelf)
Maximum intensity	200µmol/m <sup>2</sup> /sec



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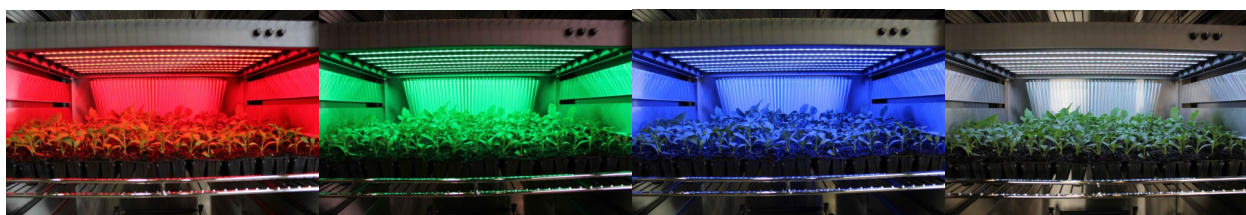
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Lighting colours

Lighting cassettes comprised of any combination of:

Warm White  
Cool White  
Red  
Green  
Blue  
RGB Combination—Variable spectrum



Electrical supply

Single phase, 220 - 240V, 50 - 60 Hz  
(alternatives available on request)

Element rating

1 kW

Circulating fan

1

Controller type

Multifunction intelligent digital PID-microprocessor

Readout

Digital LCD readout of set and actual temperature

Temperature alarms

High | low | deviation

Programmable Control

500 step programmable control of temperature, humidity  
and lighting

Country of origin

Australia



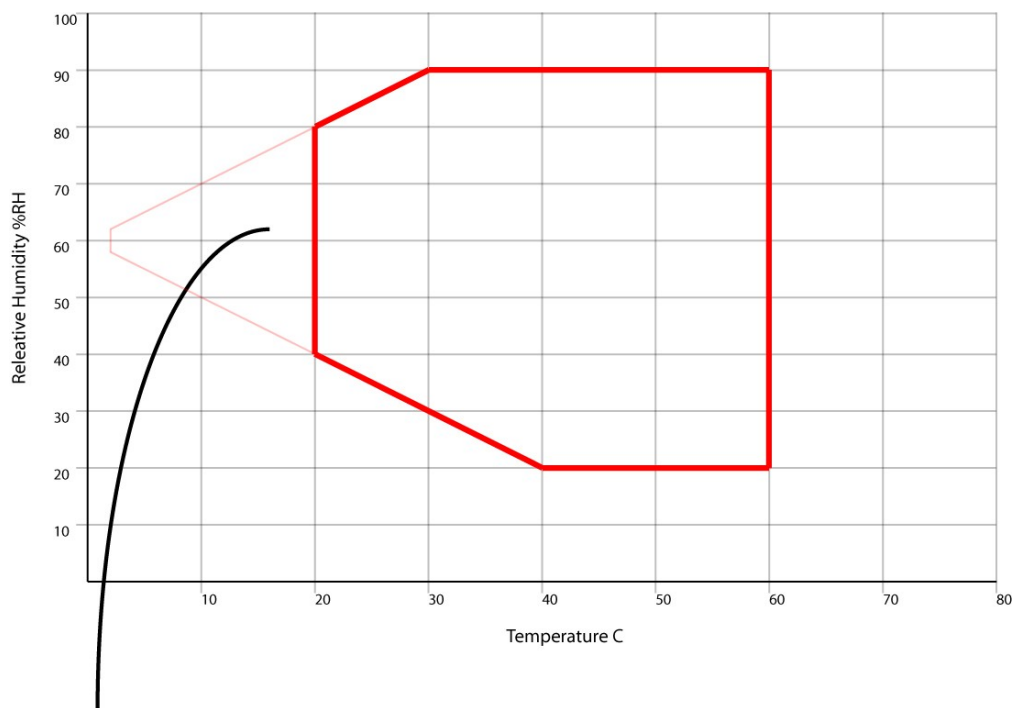
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Humidity Range	20 - 90% RH
Humidity sensor	
Control accuracy	0.1 %
Temporal stability	0.5 %



If the temperature setpoint is below 20 C, the RH control will be disabled and the chamber will adopt a natural value depending on the internal chamber conditions

This graph is a guide only  
Variations to the envelope can occur due to ambient conditions,  
the intensity of internal lighting, heat loads or humidity loads,  
and the nature of the product placed within the chamber.



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### Options / Accessories

- Additional shelves
- Inner viewing door - toughened glass
- Double glazed glass door
- Side access port - 50 mm
- Fan speed controller
- Internal power supply\*
- RS232 or RS485 comms module
- Ethernet comms module
- ISPM 15 compliant crating for export
- Calibration certificate
- Co2 Control (ambient to 3000ppm)

\*Maximum temperature limited to 50C