

## SGC 120



The new Fitotron® SGC 120 is centred on core attributes of versatility and user-friendliness. It is these, combined with exceptional quality, that sets it apart from any other chamber of its type.

The SGC 120 is available in a variety of guises and offers a host of shelving and lighting options enabling it to be utilised for a range of applications. The shelves can easily be added or removed by the user giving maximum flexibility and ease of use.

It has been designed with the user in mind and as such has a host of features that reflect this, such as the SIMPAC controller and Colour Touch Panel for programming, digital safety thermostat and eye level controls.

The 3.5" Colour Touch Panel allows a wide range of user programmable options to be selected. Temperature and humidity conditions can be set at the touch of a button, as can 'day/night timings'. SIMPAC also features a 100 program memory, graphical representation of conditions inside the chamber and a user-settable safety thermostat to define upper and lower limits.

The design and functionality of SIMPAC is such that it allows users to spend minimal time on the complexities of programming and to concentrate on the tests themselves.



## SGC 120 Constant Temperature Chamber



The SGC 120 Constant Temperature Chamber is a steady state testing product, ideally suited to:

- Biological Storage
- Incubation
- Tissue Storage
- Media Storage
- Conditioning Applications

- -2°C to +40°C
- 5 levels of wire shelves
- 3.4m<sup>2</sup> shelf space
- Minimal footprint size using less space
- Cost-effective
- User-friendly

## SGC 120 Plant Growth Chamber



## SGC 120 Tissue Culture Chamber



The SGC 120 Tissue Culture Chamber provides a generous shelf area, along with insulated shelves. Optional humidity of up to 80%RH is available, further widening the range of capabilities of the SGC 120.

- 5 shelves as standard
- 3.4m<sup>2</sup> shelf area
- -2°C to 40°C lights off
- +5°C to +40°C lights on
- Optional humidity up to 80%RH
- Dimmable lighting

## SGC 120 Seed Storage Chamber



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## SGC 120 Arabidopsis Chamber

The SGC 120 Plant Growth Chamber offers unsurpassed accuracy and reliability in the control of temperature, humidity and lighting. Larger plants of up to 1.5m can be grown inside the SGC 120.

It allows the researcher access to world climatic conditions while eliminating the variability found in nature.

- Available with up to 5 shelves
- Shelves can easily be added or removed by the user
- Individually controllable shelf lighting
- Growth area up to 3.4m<sup>2</sup>
- Max. growth height 1275mm
- Optional humidity up to 80%RH



The design of the SGC 120 Arabidopsis Chamber allows researchers to access and make measurements of small leaves that are tightly bunched together by providing unrestricted access - measurements that were previously difficult, if not impossible to make.

- Supplied with 3 shelves as standard
- Shelves can easily be added or removed by the user
- Individually controllable shelf lighting
- Standard growth area of 2.04m<sup>2</sup>
- Growth area up to 3.4m<sup>2</sup>
- Optional humidity up to 80%RH

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## SGC 120 Insect Incubation Chamber

Perfect for simulating the cool, dry conditions associated with long-term seed storage. The SGC 120 is supplied with an air drying system to remove humidity to a level of 15%RH at 4°C. It combines user-friendliness and cost-effectiveness with unequalled reliability and durability.

- 5 levels of wire shelves
- Growing area of 3.4m<sup>2</sup>
- Air drying system to remove humidity to 15%RH at 4°C
- Suitable for medium and long-term collections



The SGC 120 Insect Incubation Chamber provides a solution to Entomologist's needs to study and store *Drosophila*, bees and other insects within a controllable environment. Each shelf is available with an optional bank of high frequency lighting, minimising the effects of stroboscopic stress on insects.

- 3 shelves as standard
- 2 further shelves can be fitted
- Individually controllable lighting for each shelf, variable from an intensity of 10% to 100%
- Insect-friendly lighting
- Standard shelf area 2.04m<sup>2</sup>

# SGC 120 Specifications

<b>Chamber size</b>	Internal	1310mm (w) x 675mm (d) x 1410mm (h)	
	External	1440mm (w) x 810mm (d) x 1975mm (h)	
	Volume	1200 litres nominal	
<b>Temperature range</b>	Constant Temperature	-2°C to +40°C	
	Arabidopsis	-2°C to +40°C lights off	+5°C to +40°C lights on
	Plant Growth	-2°C to +40°C lights off	+5°C to +40°C lights on
	Insect Incubation	-2°C to +40°C lights off	+5°C to +40°C lights on
	Tissue Culture	-2°C to +40°C lights off	+5°C to +40°C lights on
	Seed Storage	+4°C	
<b>Temperature stability</b>	+/-0.3°C		
<b>Humidity (optional)</b>	60%RH to 80%RH		
<b>Standard shelving (additional shelving available)</b>	Constant Temperature	5 levels of wire shelves	
	Arabidopsis	3 stainless steel shelves	
	Plant Growth	Up to 5 stainless steel shelves	
	Insect Incubation	3 stainless steel shelves	
	Tissue Culture	5 stainless steel shelves	
	Seed Storage	5 levels of wire shelves	

## Shelving & lighting configurations

One shelf:	12 x 36W fluorescent tubes per shelf Max intensity approx 620 $\mu\text{mol m}^{-2} \text{s}^{-1}$ @ 150mm below tube @ 25°C Max height between shelves 1275mm
Two shelves:	6 x 36W fluorescent tubes per shelf Max intensity approx 290 $\mu\text{mol m}^{-2} \text{s}^{-1}$ @ 150mm below tube @ 25°C Max height between shelves 600mm
Three shelves:	4 x 36W fluorescent tubes per shelf Max intensity approx 170 $\mu\text{mol m}^{-2} \text{s}^{-1}$ @ 150mm below tube @ 25°C Max height between shelves 400mm
Four shelves:	3 x 36W fluorescent tubes per shelf Max intensity approx 140 $\mu\text{mol m}^{-2} \text{s}^{-1}$ @ 150mm below tube @ 25°C Max height between shelves 250mm
Five shelves:	2 x 36W fluorescent tubes per shelf Max intensity approx 100 $\mu\text{mol m}^{-2} \text{s}^{-1}$ @ 150mm below tube @ 25°C Max height between shelves 200mm

## Optional CO<sub>2</sub> control available

Please note: All figures subject to change

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