

CLIMATRON GROWTH CABINET

(+5°C TO +45°C) (AMBIENT TO 90% RH)

Image: CLIMATRON-1100-DL-H shown with shelf lights option



Climatron Growth Cabinet Series

- 520 and 1100 litre models available
- Designed to maintain critical temperature and humidity conditions
- Accurately simulate change in conditions over a 24 hour period
- Dual set point temperature and humidity control (Diurnal)
- Door and shelf lighting (Diurnal)
- Temperature and lighting switched via an easy to use timer clock
- Easy to access door lights
- Advanced controller to help reduce running costs
- Water proof shelf light fittings (IP66)



Internal red LED lighting

Thermoline Scientific
Office Phone (02) 9604 3911
Office Fax (02) 9725 1706

Email info@thermoline.com.au
Web www.thermoline.com.au

PRODUCT DETAILS

Thermoline's Climatron range of cabinets has been designed to maintain conditions critical for general research and/or Growth of Flora and/or Fauna. These cabinets are available as Temperature only control with the option of Humidity control, Door Lighting or Shelf Lighting. Two sizes are available a Single Door 520 litre cabinet and a Double Door 1100 litre cabinet.

Construction

The Cabinets are constructed with a Colour-Bond exterior and a 304 Stainless Steel interior for durability. The cabinets are insulated with Urethane expanded foam.

Control

The Climatron employs a simple to use diurnal control system utilising two Set-Values (Day & Night) with a ramp rate feature and simple to operate timer clock. This can allow the operator to more accurately simulate the change in conditions during a 24 hr period. The Control accuracy is governed by a proportional output to help reduce running costs

Refrigeration

The Climatron is fitted with a self contained Air cooled refrigeration system. The refrigeration system utilises a Liquid Bypass system which allows for a more accurate control of Temperature and Humidity.

Humidification

Humidification is generated by an externally mounted Ultra Sonic Humidifier. Ultra sonic Humidification helps reduce the running costs as the energy consumption compared with Steam Generated Humidification is substantially lower.

Lighting

Lighting is generated by High Output T5 Fluorescent lamps. T5 lamps have a higher light output compared with standard T8 Fluorescent lamps, up to 25% more light output. Lighting is also controlled by a Timer Clock that can be synchronised with the Diurnal control of Temperature & Humidity to help simulate a 24hr period.

Image: CLIMATRON-1100-DL-H
shown with shelf lights option



Thermoline Scientific
Office Phone (02) 9604 3911
Office Fax (02) 9725 1706

Email info@thermoline.com.au
Web www.thermoline.com.au

PRODUCT DETAILS

520 Litre Single Door Cabinet Optional Features

Humidity (H) : Ultrasonic humidity control

Door Lights (DL) : Door lighting. 4 x 54WT5HO lamps per door

Shelf Lights (SL) : Shelf Lighting. Three options are available. 3 x 24WT5HO per tray, 4 x 24WT5HO per tray or 6 x 24WT5HO per tray. Maximum allowable lights per cabinet are 12.

Carbon Dioxide (TSA-CO2) : Stand alone carbon dioxide controller

1100 Litre Double Door Cabinet Optional Features

Humidity (H) : Ultrasonic humidity control

Door Lights (DL) : Door lighting. 4 x 54WT5HO lamps per door

Shelf Lights (SL) : Shelf Lighting. Three options are available. 3 x 54WT5HO per tray, 4 x 54WT5HO per tray or 6 x 54WT5HO per tray. Maximum allowable lights per cabinet are 12.

Carbon Dioxide (TSA-CO2) : Stand alone carbon dioxide controller

Safety Features

2.0°C Deviation High Alarm on Temperature Controller

Manual Resetting Element Safety

Short Circuit Protection

SPECIFICATIONS

Model	CLIMATRON-1100-DL-H
Capacity (litres)	1100
Internal Dimensions (HxWxD mm)	1460 x 1320 x 550
External Dimensions (HxWxD mm)	2040 x 1470 x 770
Temperature Range	5.0°C to 45.0°C
Temperature Tolerance	±2.0°C (Spatial)
Temperature Control	Dual set point control (Diurnal) switched via an easy to use timer clock
Humidity Range	Ambient to 90% RH
Humidity Tolerance	±5% RH (Spatial)
Humidity Control	Dual set point control (Diurnal) switched via an easy to use timer clock
Lighting	Door Lighting 8 x 54WT5HO switched via an easy to use timer clock
Electrical	240VAC, 50Hz, 10amps

Thermoline Scientific have been manufacturing and distributing high quality laboratory and scientific testing equipment since 1970. Over this time, Thermoline has grown to be a leading brand in the science industry, with our equipment being used in small and large Hospitals, Universities and Research Laboratories across Australia and the Asia Pacific region.

We're proud to say that we are 100% Australian owned and operated.

Thermoline Scientific
Office Phone (02) 9604 3911
Office Fax (02) 9725 1706

Email info@thermoline.com.au
Web www.thermoline.com.au