

Contherm BIOSYN Series
Tissue Culture Chambers create the ideal
culture environment for photosynthetically
dependent organisms.

Contherm

MAR 05*

BIOSYN
SERIES



Tissue Growth Chambers

MODEL 610R	- Capacity 200 litres
MODEL 610RHS	- Capacity 200 litres
MODEL 620R	- Capacity 400 litres
MODEL 620RHS	- Capacity 400 litres
MODEL 625R	- Capacity 900 litres
MODEL 625RHS	- Capacity 900 litres

These versatile Phytotron chambers provide Photosynthetically Active Radiation to medium levels and consistent temperature control, offering enhanced lighting functions for the 625 models, and 610 and 620 models with the P6 option.

All models feature corrosion-resistant finishes on structural steel with steel exteriors and polished stainless steel interiors to assure long service life. Heated glass doors and double glazed windows each side allow clear interior viewing, with stainless steel shelves provided for all models. An efficient fan-driven air system assures uniform circulation and diffusion of air through the interior.

Standard on all BIOSYN chambers is the proven Contherm PLC55 microprocessor-based, EEROM-

backed control system with user-adjustable firmware and LED-based readout. Day/night control for temperature, lighting (and humidity if fitted) is programmable in real or elapsed time, with nine user-configurable programs available. All models feature self-diagnostic alarm displays and high limit controls, plus an optional RS232c port allows the user to monitor or change parameters via a PC. Humidity control is achieved with a highly effective humidity generator incorporating the latest sensor technology in RHS models. An evaporative system may be used in standard models, with RH levels indicated but not controlled. The sealed energy-efficient refrigeration system incorporates a



Light Cassette



Model 625RHS

unique hot-gas control for continuous operation and automatic defrosting, with all functions under the control of the microprocessor.

Lighting is provided by fluorescent tubes in all models, with many options of lighting type, and extra lighting performance available. These Contherm BIOSYN Tissue Growth Chambers offer precise performance and reliability in a compact and easy-to-use format to the research professional and student alike. For enhanced flexibility, Option Q is recommended. Manufactured in a quality production environment, these units are designed to NZS/AS3100 Electrical Standards.

**NOW AVAILABLE WITH LS4
PHOTOTOPIC LIGHT CASSETTE**
FOR MORE INFORMATION
TALK TO CONTHERM



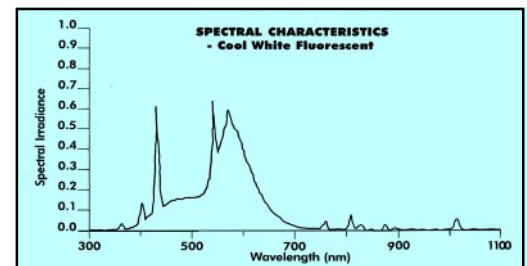
Some conditions apply



Model 620RHS

Specifications

MODEL	610R	610RHS	620R	620RHS	625R	625RHS
Dimensions: External (H x W x D)	1440 x 1100 x 770	2050 x 1100 x 770	2050 x 1100 x 770	2100 x 1900 x 750	2100 x 1900 x 750	2100 x 1900 x 750
Dimensions: Internal (H x W x D)	620 x 635 x 500	1230 x 635 x 500	1230 x 635 x 500	1230 x 1460 x 500	1230 x 1460 x 500	1230 x 1460 x 500
Capacity	200 litres	400 litres	400 litres	900 litres	900 litres	900 litres
Shelves	3 stainless steel shelves	6 stainless steel shelves	6 stainless steel shelves	6 stainless steel shelves	6 stainless steel shelves	6 stainless steel shelves
Doors	Inner and Outer. (Inner glass door heated)					
Control System	Microprocessor-based digital 9 programmable steps; max. 99hrs, 59min, timer; max. 999 cycles; 2-line alphanumeric display, RS232C Comm. port.					
Refrigeration System	Hermetically sealed, auto defrost, tropical condenser, CFC free.					
Refrigeration Control	Hot Gas Modulation. Fully protected. Contherm Management Firmware					
Heating	Stainless steel tubular heater. Hot gassing of refrigeration unit.					
Air Circulation	Vertical Air System throughout chamber					
Temperature: Range	Lights off: 0°C to 50°C; lights on: 5°C to 50°C			Lights off 0-50°C; lights on 5-50°C		
Fluctuation	±0.3°C			±0.5°C		
Uniformity	±0.6°C			±1.2°C		
Setability	0.1°C			±0.5°C		
Reproducibility	±0.5°C			±0.5°C		
Automatic/Manual Safety	Automatic 2.0°C above and below set point. User-adjustable high limit. Earth leakage circuit-breaker.					
Humidity: RH Range	None	35% to 98%RH (±3%accuracy)	None	35% to 98%RH (±3%accuracy)	None	35% to 98%RH (±3%accuracy)
Lighting	Cool White Fluorescent Total 200µE (P6 300µE)		Cool White Fluorescent Total 200µE (P6 300µE)		Cool White Fluorescent Total 300µE	
Lighting Control	Lights are programmable to four levels: 0%, 33%, 66%, 100%.					
Power requirements	230-240VAC 50Hz 10A grounded single phase supply			230-240VAC 50Hz 15A supply		
Weight	TBA		TBA		TBA	
Packed Weight	TBA		TBA		TBA	
Options (popular items are listed -full list available on enquiry)	Dehumidifier-Option HP; Comms. Program-Option Q; Additional shelves and guides-Option SG; Power outlet-Option T; Additional cable port-Option Z; Castors-Option XP (Note castors are standard on 625 model); LS4 Light Cassettes-maximum of one in all models. (Contact Contherm)					



Performance figures are quoted in an ambient of 20°C with lights off. Light output measured at 300mm from glass doors. More technical information is available from the Contherm Techspec Library. Refer to our website for current information. The words 'Contherm' and 'Biosyn' are the property of Contherm Scientific Ltd. *Warranty covers components and labour for 1 year. Full warranty applies only with regard to published pricelist. The information contained in this brochure is correct at time of printing but is subject to change without notice. Manufactured by **CONTHERM SCIENTIFIC LTD**, 27 Cornish St, Petone, New Zealand. Tel: 064-4-568 8034 Fax: 064-4-568 8095. Email: contherm@xtra.co.nz Website: www.contherm.com