

Stability & Bio Storage



**Controlled environment
cabinets for stability
storage**

The background image shows a laboratory setting with several controlled environment cabinets. The cabinets are illuminated with blue and purple light, and some have orange and blue storage bins on top. The text is overlaid on the right side of the image.

Stability storage cabinets

Source BioScience 5000 series cabinets offer a range of capacities from 400 litres to 1260 litres.

With a unique range of environmental features geared towards reduced energy usage, our 5000 series cabinets are designed to suit a wide variety of controlled temperature and humidity storage applications.

Source BioScience service and maintenance plans are available for all Source BioScience products.



Specifications

Operating Conditions

Source BioScience cabinets offer a typical uniformity of better than $\pm 1^{\circ}\text{C}$ and $\pm 3\% \text{RH}$.

The letter suffix at the end of the product number indicates its available operating conditions as shown in the table - e.g: a 5799 is a 2 door cabinet with a temperature range of 20°C to 50°C

Our 5000 series - SM cabinet with de-humidifier offers a humidity range of 20% to 80%RH.

SUFFIX	Temp Range ($^{\circ}\text{C}$)	Humidity Range (%RH)
S	20 to 50	50 to 80
SM	20 to 50	20 to 80
R	2 to 8	N/A

Cabinet Construction

Cabinets are manufactured from zinc plated mild steel sheet which has a powder coated, textured white finish. It is of a welded construction. Internal finish is grade 304 stainless steel. The void between the inner and outer skins is injected with closed cell, polyurethane CFC free foam for insulation.

Our cabinet design protects samples and offers easy maintenance by placing critical running parts at the bottom of the chamber. Cabinets recirculate condensate water eliminating need for drain or pump.

Shelving

Each cabinet comes complete with three stainless steel shelves. Shelves are manufactured from grade 304 stainless. Shelving is adjustable on a 25mm pitch. Additional shelves can be purchased if required.

Doors

The 5600-S model has one door and is hinged on the left hand side.

The 5799-S and 5804-S have two doors, one hinged on the left and one on the right. A key lock is fitted to the door for security.

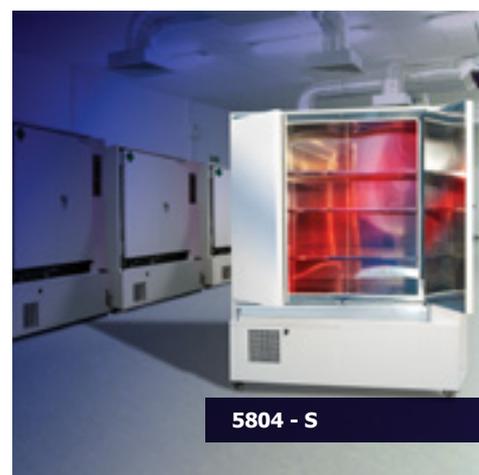
Ducting System

All cabinets utilise laminar airflow for circulation. The plenum under the bottom shelf draws air evenly across the shelving from wall to wall, and returns it back to the plenum.

The plenum contains all of the fans, heating elements, and chiller coils, which all work together to ensure tight uniformity throughout the chamber. By simply removing a few screws on the bottom panel within the chamber, all parts can be easily accessed and serviced.

Additional Features

There are two site glasses that show the water level for easy refilling of the chiller and humidifier. We offer an option for automatic water refill for the humidifier. High and low temperature and humidity alarms included in line with cabinet operating capabilities.



Source BioScience manufactures validatable controlled environment reach-in rooms, walk-in rooms and cabinets that provide the climatic conditions specified in the ICH Tripartite guidelines, simulating the conditions of all four climatic zones for long-term, intermediate and accelerated testing.

Our product range includes both standard and customised environmental rooms and cabinets offering various modes of operation - all of which are specifically designed to include features that allow the user to select the most relevant type for a particular application.



Cabinet interior

Our systems are designed to meet the most rigorous of customer needs while providing temperature and humidity control where precision is a principal requirement.

Not only a manufacturer, Source BioScience is a leading provider of temperature and humidity controlled services to the pharmaceutical R&D, manufacturing, bio, chemical, healthcare and heritage markets.

Physical Specifications			
Model	5600-S	5799-S	5804-S
External Height (mm)	1950	1950	1950
External Width (mm)	970	1570	1570
External Depth (mm)	740	740	1040
Internal Height (mm)	1180	1180	1180
Internal Width (mm)	580	1200	1200
Internal Depth (mm)	590	590	890
Internal Capacity	400 litres	835 litres	1260 litres
Weight	250Kg	300Kg	350Kg
Internal Material	Grade 304 stainless steel		
Doors	1	2	2
Electrical Supply	230V/1P/13 AMP		

Validation

Source BioScience also offers a comprehensive validation package - both on newly installed equipment and existing environmental rooms, cabinets and associated equipment such as data loggers etc. All reference standards are regularly calibrated by UKAS accredited laboratories and are traceable to national standards.

Our service comprises four main areas:

Installation Qualification (IQ): consisting of electrical safety inspection and testing, mechanical inspection and component checklists.

Operational Qualification (OQ): consisting of a single-point calibration, recording of all controller settings and programming, functional testing of environmental chambers.

Calibration Qualification (CQ): is the calibration of the data logger and probe set to be used in performance of PQ.

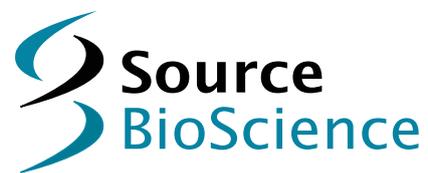
Performance Qualification (PQ): consists of multiple-point performance mapping of the environmental chambers.



Shelving



Chiller



Healthcare

LifeSciences

Stability & Bio Storage

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