

CLIMATEC

PHARMACEUTICAL

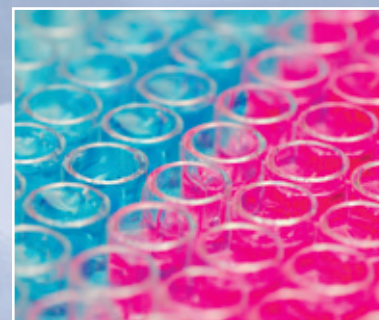


STABILITY TESTING CABINETS

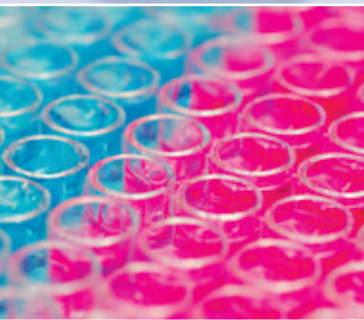
ADVANCED TESTING TECHNOLOGY

UNBEATABLE PERFORMANCE AND PRECISION CONTROL

ESSENTIAL TEMPERATURE & HUMIDITY TESTING FOR PHARMACEUTICAL, MEDICAL AND HEALTHCARE PRODUCTS



CLIMATEC PHARMACEUTICAL





INTRODUCING OUR NEW RANGE OF PHARMACEUTICAL STABILITY CABINETS NOW WITH ADVANCED TESTING TECHNOLOGY

These cabinets have been specifically developed for rigorous temperature and humidity testing on a wide range of pharmaceutical, medical and healthcare related products.

For over 25 years Climatec have established an enviable reputation for the highest quality bespoke testing chambers. We have now utilised this vast experience and technical capability to develop these advanced temperature/humidity control cabinets especially for pharmaceutical, medical and healthcare applications.



GUARANTEE
YOUR ASSURANCE OF QUALITY,
RELIABILITY AND PERFORMANCE

5 year guarantee available when you take out a Climatec Pharmaceutical Service Contract. Contact us for details.



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MANUAL DIGITAL CONTROLS ALLOW ACCURATE SET UP OF TEMPERATURE AND HUMIDITY TESTING LEVELS

This stability testing cabinet is specifically designed for essential testing a wide range of pharmaceutical, medical and healthcare related products.

THE CONTROLS

Digital displays with simple, manually adjusted push-button controls that can be set to provide, precise, accurate temperature and humidity settings and measurements.



HUMIDITY GENERATOR

At the heart of our humidity generator is Climatec's uniquely engineered flash boiler. Designed to sterilise water as it enters the system, neutralising any potential contamination during the humidity generation process. More details – see page 10.



ADVANCED AIRFLOW TECHNOLOGY

The advanced airflow system is designed to create an even circulation across all of the shelves simultaneously to scientifically optimise both temperature and humidity levels within the stability testing cabinet. More details see page 10.



THE CABINET

Loaded with new design, quality, reliability, efficiency and performance features. Manufactured from high-grade stainless steel, both inside and out, giving a hygienic easy to clean finish. Reinforced 5mm stainless hinges to eliminate the risk of door sag (tested to 250,000 openings). The highly sensitive temperature and humidity sensor constantly monitors conditions inside the cabinet. The adjustable shelves with

smooth operating slides and anti-tilt allow easy access for loading of pharmaceutical products to be tested. Ergonomic door and handle design, lockable for added security. Fully mobile with smooth running castor wheels, lockable for secure positioning.



SPECIFICATIONS	
Manual Control Cabinet	
Cabinet Volume	600 litres
Cabinet Size (Internal)	1500H x 570W x 630Dmm
(External)	2080H x 700W x 820Dmm
Temperature Range (°C)	See chart on page 5
Humidity Range (Temperature Dependent)	See chart on page 5
Control Features	Manually adjusted digital display for temperature and humidity
Shelves Supplied	3
Shelf Capacity	40kg per shelf max
Shelf Size	530 x 650mm
Power Supply	230V, single phase, 50Hz, 13A standard socket





MANUFACTURED FROM HIGH-GRADE STAINLESS STEEL, BOTH INSIDE AND OUT, GIVING A HYGIENIC EASY TO CLEAN FINISH

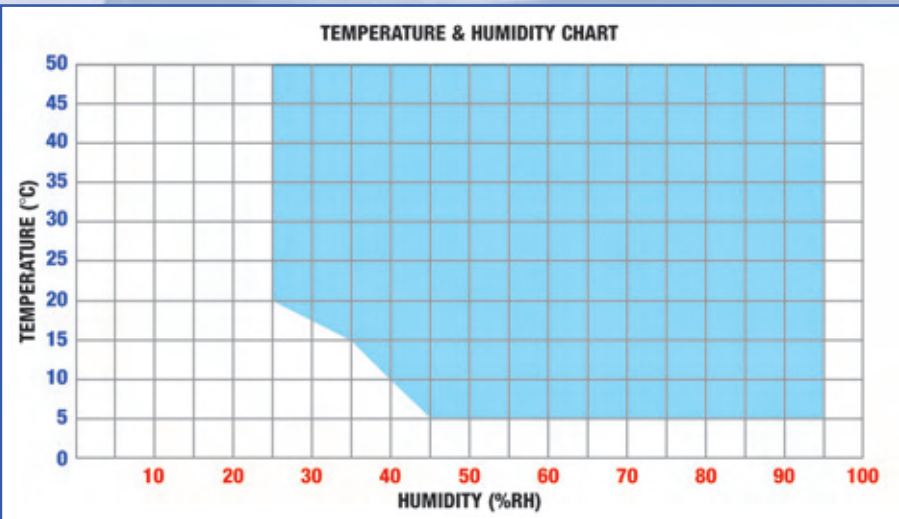
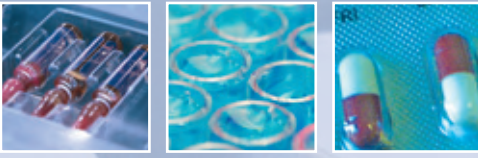


Separate digital displays to show temperature and humidity settings

At the heart of our humidity generator is Climatec's uniquely engineered flash boiler

Insulated with high performance Cyclopentane foam for higher thermal efficiency

Recessed door interface provides the ultimate mechanical barrier



Higher efficiency insulation

Integral water sterilisation

High grade cast aluminium



CLIMATEC PHARMACEUTICAL



Nanodac Controller for in-depth graphical recording, PID Control and set-point programmes



At the heart of our humidity generator is Climatec's uniquely engineered flash boiler



Insulated with high performance Cyclopentane foam for higher thermal efficiency



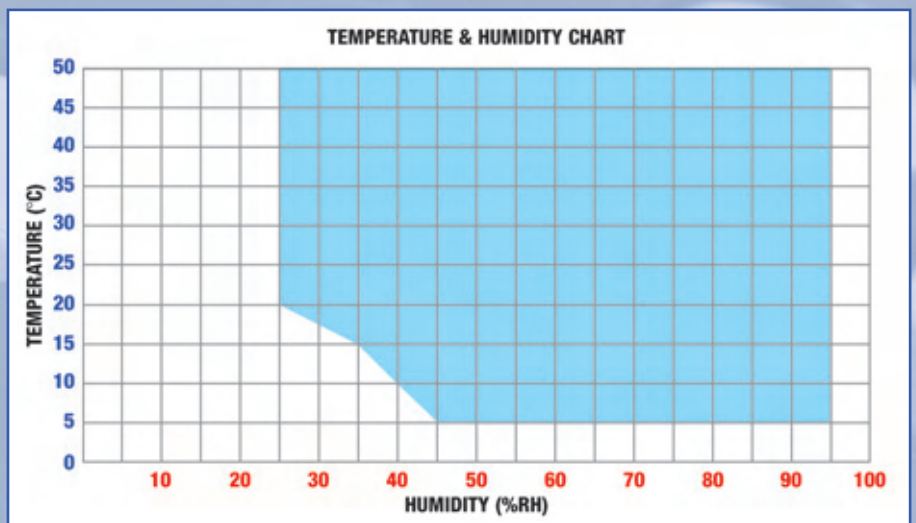
FULLY PROGRAMMABLE WITH A STATE-OF-THE-ART NANODAC RECORDER AND CONTROLLER

Now you can bring amazing technology to your stability testing. This advanced testing cabinet is specifically designed for in-depth testing on pharmaceutical, medical and healthcare related products.

Recessed door interface provides the ultimate mechanical barrier



Push-buttons enable scrolling between configured views





THE NANODAC RECORDER AND CONTROLLER HAS A VARIETY OF WAYS IN WHICH TO VIEW DATA

Sophisticated controller allowing set-up of set-point profiles and programmable event outputs. Full colour, 1/4 VGA, 320 x 240 pixel display. The Nanodac recorder has a variety of ways in which you can view your data – including bar chart, trend, numeric values and much more. Nanodac let's you store, retrieve and download programme files. More details – see pages 8/9.

View stability data as numeric values



View stability data as bar chart



The ultimate in data graphical recording enhancement by a full colour VGA display



ADVANCED AIRFLOW TECHNOLOGY

The advanced airflow system is designed to create an even circulation across all of the shelves simultaneously to scientifically optimise both temperature and humidity levels within the stability testing cabinet. More details see page 10.



HUMIDITY GENERATOR

At the heart of our humidity generator is Climatec's uniquely engineered flash boiler. Designed to sterilise water as it enters the system, neutralising any potential contamination during the humidity generation process. More details – see page 10.



THE CABINET

Loaded with new design, quality, reliability, efficiency and performance features. Manufactured from high-grade stainless steel, both inside and out, giving a hygienic easy to clean finish. Reinforced 5mm stainless hinges to eliminate the risk of door sag (tested to 250,000 openings). The highly sensitive temperature and humidity sensor constantly monitors conditions inside the cabinet. The adjustable shelves with smooth operating slides and anti-tilt allow easy access for loading of pharmaceutical products to be tested. Ergonomic door and handle design, lockable for added security. Fully mobile with smooth running castor wheels, lockable for secure positioning.



A range of validation packages are available from a full IQ/OQ turnkey validation to just providing a validation workbook for the user to carry out the validation – contact Climatec Pharmaceutical for further details.

SPECIFICATIONS

Fully Programmable Cabinet

Cabinet Volume	600 litres
Cabinet Size (Internal)	1500H x 570W x 630Dmm
(External)	2080H x 700W x 820Dmm
Temperature Range (°C)	See chart on page 6
Humidity Range (Temperature Dependent)	See chart on page 6
Control Features	Fully programmable Nanodac recorder/controller
Visual Display	Full colour, 1/4 VGA, 320 x 240 pixel display
Shelves Supplied	3
Shelf Capacity	40kg per shelf max
Shelf Size	530 x 650mm
Power Supply	230V, Single Phase, 50Hz, 13A standard socket



THE NANODAC CONTROLLER AND RECORDER IS A KEY FEATURE IN EVERY PROGRAMMABLE STABILITY TESTING CABINET



CRYSTAL CLEAR DISPLAY

Full colour, 1/4 VGA, 320 x 240 pixel display. The Nanodac recorder has a variety of ways in which you can view your data - bar graph, trend, numeric values. The push-buttons below the display also enable scrolling between configured views.



3.5" TFT display offers incredibly clear and bright visualisation

THE PROGRAMMER

As well as stability testing our fully programmable cabinet is capable of cyclic or diurnal testing. The Nanodac offers an option Dual Programmer supporting up to 100 programmes locally with each programme supporting 25 segments. There is also a remote access feature to retrieve data via FTP and USB memory stick.

- 100 programmes
- Each programme 25 segments
- Remote access
- Store data to USB



Vertical bar graphs – one of the many configurable views



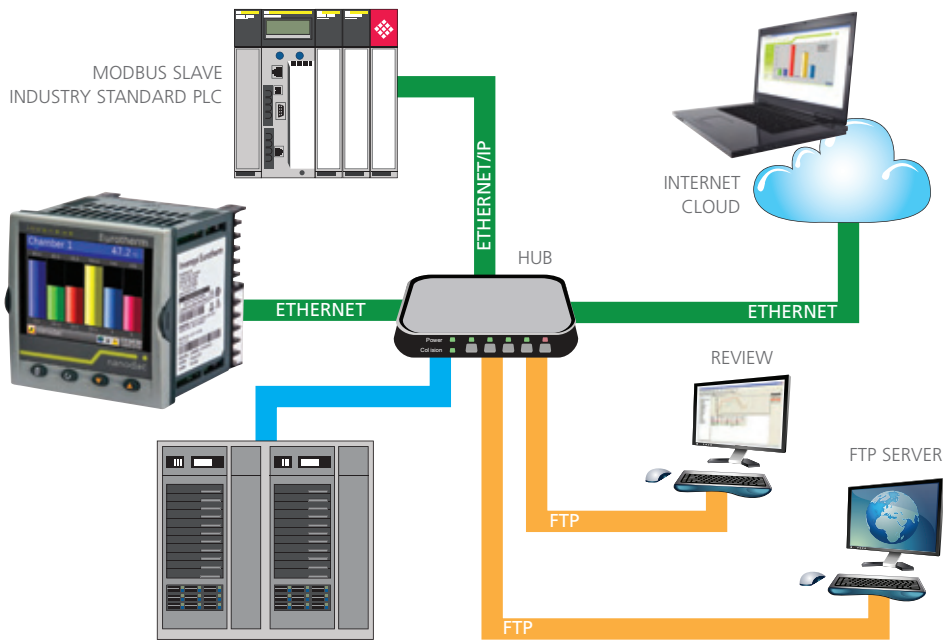
The ultimate in data graphical recording enhancement by a full colour VGA display

PROGRAMME EDITOR

Simple set up of set-point profiles. Store, retrieve and download files. The set-point programme editor within iTools provides a simple method of configuring set-point profiles and programmable event outputs. Programmes can be edited live online with the controller, or offline for download. Storage of profiles is limited only by the amount of disk space available on the PC.



Push-buttons enable scrolling between configured views



The Nanodac Controller/Recorder can also be supplied with Ethernet/IP connectivity, providing support to either client or server modes of operation

OUTSTANDING NANODAC FEATURES



- Secure data recording
- 2 PID control loops
- Dual programmer
- High accuracy universal inputs
- USB removable data storage
- 50MB flash memory
- Ethernet communications
- VGA crystal clear display
- 30 virtual channels
- Steriliser application block
- Relative humidity application
- Cascade with auto-tune
- Multi-language support (English, French, German, Italian, Spanish)

SUPPORTED BY PC BASED TOOLS



The 'Review' software is an efficient and secure library for data from which charts can be reviewed, printed and exported to other PC packages as required. Automatic data archiving to removable USB memory stick (up to 8GB), remote data archiving over Ethernet network using FTP, plus automatic data archiving directly into 'Review' database and remote visuals to your PC via Webserver.



View stability testing data from anywhere with webserver access!



DATA SECURITY



The Nanodac 'Review' software maintains the integrity of secure, binary files (UHH format) created by the Nanodac Recorder and can be configured to pull data over the network and provide a third data back up route.



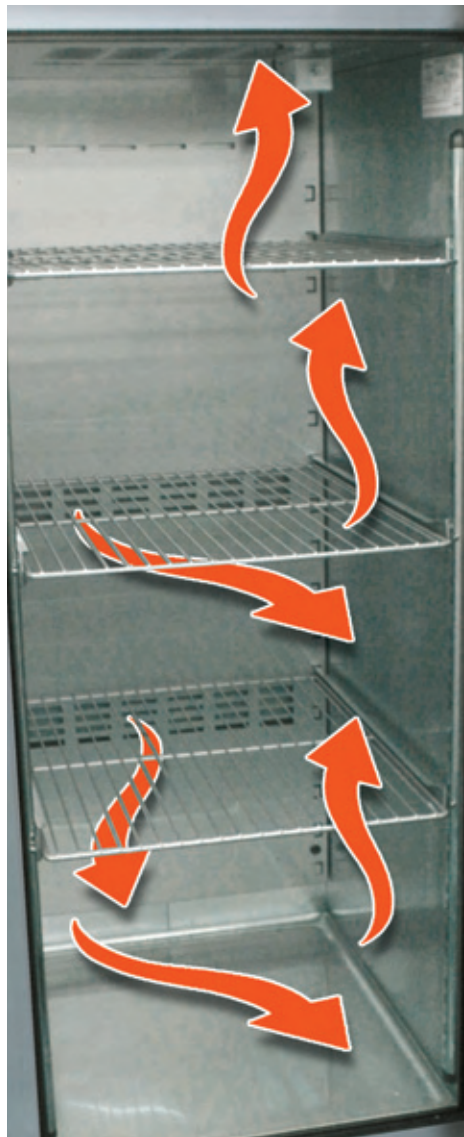
UNBEATABLE PERFORMANCE TO MAXIMISE RELIABILITY AND IMPROVE ACCURACY OF TESTING

Our cabinets are designed, engineered and manufactured to ensure the very best in stability testing on a wide range of pharmaceutical, medical and healthcare related products. Thanks to some of the finest specifications and build quality our cabinets maximise on performance to deliver consistent, highly accurate testing results everytime, all of the time!

The advanced temperature and humidity technology combined with highly sensitive digital controls ensure our stability cabinets lead the way in ease of set-up, versatility of operational control, recording and ongoing reliability.

HUMIDITY GENERATOR

At the heart of our humidity generator is Climatec's uniquely engineered flash boiler. Designed to sterilise water as it enters the system, neutralising any potential contamination during the humidity generation process. Climatec's flash boilers are robust and highly durable using high grade aluminium. They have a full proof water failure system to ensure excellent operating performance. The system is easily maintained and easily cleanable to ensure longer operating life.



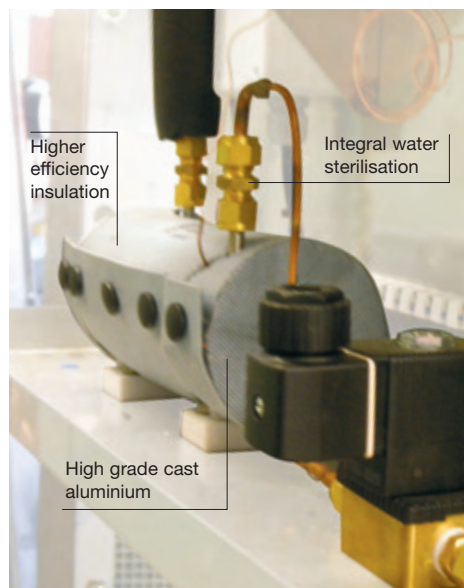
THE SENSOR

Our highly sensitive temperature and humidity sensor constantly monitors the programmed operating conditions inside the stability testing cabinet to ensure consistent optimum performance.



ADVANCED AIRFLOW TECHNOLOGY

The advanced airflow system is designed to create an even circulation across all of the shelves simultaneously to scientifically optimise both temperature and humidity levels within the stability testing cabinet. Climatec's air distribution maximises efficient operation even when the shelves are fully loaded. Each shelf is securely located to align with the rear air ducts.





OUR AFTER SALES SERVICE DOESN'T STOP AFTER WE DELIVER YOUR STABILITY TESTING CABINET



At Climatec Pharmaceutical you can enjoy 5 star servicing and maintenance, providing your company with truly professional after sales service.



- ★ We have service centres in Watford and Manchester so you have access to FGAS approved engineers who cover all of the UK.
- ★ Response time is normally within 48 hours.
- ★ We can arrange cost-effective service agreements and unlimited emergency break down cover with a fixed price.
- ★ Our stability testing cabinets are calibrated to UKAS traceable standards. Should you need more information please contact us.

★ In the unlikely event of a problem with your pharmaceutical stability cabinet our aim is to provide the quickest and best possible solution to ensure the cabinet continues to deliver outstanding performance.



OUR 5 STAR SERVICING IS YOUR REASSURANCE THAT WHATEVER STABILITY TESTING CABINET YOU ORDER IT IS SUPPORTED BY PROFESSIONAL AFTER SALES SERVICING AND ON-GOING MAINTENANCE



GUARANTEE
YOUR ASSURANCE OF QUALITY, RELIABILITY AND PERFORMANCE

5 year guarantee available when you take out a Climatec Pharmaceutical Service Contract. Contact us for details.





Advanced Pinnacle Technologies Ltd

Your Instrumental Partner in Technology



CLIMATEC PHARMACEUTICAL IN PARTNERSHIP WITH APT, OUR AGENTS AND DISTRIBUTORS BASED IN SINGAPORE

APT in partnership with Climatec Pharmaceutical will help to accelerate the essential and vital testing and development of pharmaceutical products throughout South East Asia.



Manual Control Testing Cabinet



ADVANCED HUMIDITY CONTROL



IMPROVED AIRFLOW CIRCULATION



SPECIALIST KNOWLEDGE AND SOLUTIONS

- Advanced Pinnacle Technologies (APT) are focused on promoting the new range of Climatec Pharmaceutical Testing Cabinets.
- APT are ready to deliver testing cabinet solutions to the Pharmaceutical and Healthcare industries throughout the Malaysian regional community and South East Asia.
- APT is ready to provide specialist knowledge on Climatec's Manual and Programmable Pharmaceutical Testing Cabinets.
- APT offer on-going testing solutions to the wider pharmaceutical and healthcare markets, plus all related R&D laboratories.



Programmable Control Testing Cabinet



APT SALES & ENQUIRIES

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Your Instrumental Partner
in Technology





STABILITY TESTING CABINETS

For further information, detailed specifications, free quotation or to arrange a site visit – please contact us today.

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