

STABILITY TEST CHAMBERS

AVI-143A SERIES



The main use of stability testing chambers is to administer stability and shelf-life studies on a wide variety of products. They provide exceptional stability testing for industries like pharmaceuticals, cosmetics, food, personal care, etc. they are used to store different products under desired temperature and humidity conditions. Other uses of stability testing chambers include expiry date testing, increased ageing, etc.

These testing chambers are used to conduct dummy tests on environment like situations to check how much the stressors like extreme temperature and humidity, corrosion, etc can cause the sample products

AVANTE manufactures stability testing chambers to perform stability and shelf-life testing on drugs and drug-related substances. We manufacture PLC controlled equipment thus ensuring our buyers all the quality they require. Our cabinets adhere to all International Standards such as ICH, WHO Guidelines as well as USFDA specifications.

CONCEPTION

The interior working chambers of Avante Stability Testing Chambers are coated with high-density CFC free Polyurethane foam. The interiors are mirror finished and made of stainless steel (304 SS, 0.8 mm thick). The exterior consists of white powder-coated (1.0 mm thick) with mild steel. The doors of these cabinets come with a magnetic gasket and a keyed door lock. Trays made using stainless steel are provided inside the chambers to ensure optimum storage. High-quality cooling ensured with the help of a hermetically sealed compressor.

GMP models are completely built with stainless steel (Interiors S. S 304 with a mirror finish and exteriors. S.S 304 dull finish. Inner S.S316 is also available upon request on extra cost).





REFRIGERATION SYSTEM

Avante provides refrigeration systems which are free of CFC, providing ultimate cooling. Inside the chambers, there is a condensing unit. Avante is a manufacturer of condensing units that are highly capable of transferring heat with low power consumption. This makes our products high quality and completely reliable. We provide superior satisfaction in our equipment with-

- An eco-friendly refrigeration system as it is CFC-free
- Copper tubes and slit aluminium fins fitted inside to ensure high-quality transfer of heat
- Filter drier keeps humidity and all types of dirt and debris away
- Permanently greased fan motors with thermal shield
- System protection guaranteed with safety and control devices

STABILITY TESTING CHAMBERS FIND TEST APPLICATIONS IN

- Biological studies
- Cement plants
- Medical industry
- Packing industries
- Seed testing
- Testing on electronic and mechanical components

SAFEGUARDING TRAITS

- An MCB to prevent short-circuiting in case of power fluctuation
- An audio-visual alarm that buzzes to pass alerts when the temperatures change from the set temperature
- Auto cut off to secure the boiler heater when the water level is too low
- GSM technology available to receive mobile alerts
- Overload protector that makes sure the compressor is safe
- Time delay by 180 seconds for compressor switch when ON
- Safety cutoff, in case the temperature crosses 60-degree celsius

PRINCIPLE CHARACTERISTICS

- Adheres to all the storage norms given by ICH such as 25°C/60% RH, 30°C/65% RH, 30°C/75% RH, 40°C/75% RH
- Easy moving of the machine with caster wheels
- Energy efficiency and uniformity in temperature ensured with formed-in-place PUF insulation
- Lighted working area
- Nichrome wire heater made with stainless steel in a U-shape
- Premium PT-100 sensor to ensure the correctness of results
- Stainless Steel rod trays that ensure uniformity of temperature inside the cabinets



- Storing requirements like 25°C /40% RH, 40°C /25% RH and 30°C/35% RH, can be provided on demand
- Teflon coated immersion heater to prevent scaling
- The uniformity of temperature inside the oven and quick recovery after the doors are opened is guaranteed using Unidirectional airflow system

DISCRETIONARY ACCESSORIES

Data Scanner We also provide additional (if asked)

4 point temperature and humidity scanner along with sensors and data saving options to print data online and offline.

8 point temperature and humidity scanner along with sensors and data saving options to print data online and offline.

Standby refrigeration system

A ready to use standby refrigeration system that can replace the normal system in case there is a failure in the functioning. Comes with a compressor, evaporator, condensers and other additional accessories.

Standby humidity system

An extra stand by Humidity system at your disposal, in case the regular equipment stops working.

Door access Biometric magnetic door with PC interface communication to ensure safety while door opening.

Mobile alert The mobile alerts are sent using GSM technology in case of any power disruption.

Power backup In case of power failure, the uninterrupted online power supply is provided for PLC.

Trays Extra trays as per your requirements. To fit the equipment mentioned above.

TECHNICAL DATA

Model No.	AVI-100STD	AVI- 143B	AVI- 143B	AVI- 143B	AVI- 143B	AVI- 143B	AVI- 143B	AVI- 143B	AVI- 143B
	AVI-143A-GP	AVI-143A-GP	AVI-143A-GP	AVI-143A-GP	AVI-143A-GP	AVI-143A-GP	AVI-143A-GP	AVI-143A-GP	AVI-143A-GP
Volume	100 Liters	200 Liters	300 Liters	400 Liters	600 Liters	800 Liters	1000Liters	1500 Liters	2000 Liters



Temperature Range	20.0-60.0°C								
Accuracy	± 0.2°C								
Uniformity	± 2.0°C								
Humidity Range	40-98% RH								
Accuracy	±2 % RH								
Uniformity	±3% RH								
Control system	PLC								
No. Doors	Single	Single	Single	Single	Single	Double	Double	Double	Double
No. Of tray	2	3	4	4	4	8	8	10	10
Power	1500 W	1750 W	1750 W	1750 W	2000 W	2500 W	3500 W	3500 W	3500 W
Voltage	230 ACV , 50/60Hz								
DIMENSIONS (W X D X H) IN MM AND WEIGHT (KG)									
Internal Dim	435x400x600	505x400x1005	565x450x1205	635x530x1205	745x670x1205	1120x600x1200	1150x670x1300	1300x890x1300	1500x1030x1300
External Dia	580x845x1257	650x880x1680	710x935x1885	780x1010x1880	890x1150x1960	1370x1075x1920	1400x1145x1920	1550x1365x1920	1750x1505x1920
Packing size	707x972x1478	777x1007x1883	837x1062x2088	907x1137x2083	1017x1277x2163	1497x1202x2123	1527x1272x2123	1677x1492x2123	1877x1632x2123
Net Weight	125	150	205	260	285	315	340	365	385
Gross Weight	180	230	280	330	355	405	430	460	485

Note: The design, color, specification, and models are subject to transformation due to ending research, development, and technological advances.

India

Avant Garde Enterprises Pvt. Ltd (Project Office)
 II Floor, Bldg. No. 1-68/4 & 5, Plot No. 80 & 81
 Arunodaya Co-Op Housing Society Ltd.
 Madhapur, Hyderabad - 500 081, India
 +91-40-4851-4122
 info@avantgardeinc.com

Dubai

Avant Garde Inc FZCO (Management Office)
 Building 3W, Office 214, Al Quds Street, Dubai
 Airport Free zone (DAFZA) P.O.Box 54833
 +97142594192
 info@avantgardeinc.com