



Enviro Systems

Simplifying climatic world



Temperature range

TEMPERATURE RANGE : 4°C TO 65 °C / 100°C / 150°C
HUMIDITY RANGE : 25% RH TO 95% RH

Stability chamber

Q Vary Systems designs and manufactures all types of refrigeration equipments that are suitable to industrial, laboratory, hospital and research centers. We pride ourselves in offering our customers competitive rates while maintaining the high standards of customer service we have built our reputation on. We also provide you with the products tailored to suit your individual requirements within your budget and timeline.

Our wide array of products are categorized into Lab, Industrial & Commercial equipments. We strive hard to cater our clients with best product range and services while meeting international standards. Our aim is to meet the overwhelming demand of the scientific community and provide them the world class quality scientific instruments along with the best after sale support.



Taking Environmental Product Testing to the Next Level

Thoroughly testing products prior to consumer use is vital to the success of your business. Q vary Series Chambers expose products to a variety of temperatures and humidity levels, offering a complete and comprehensive way to improve product reliability. Q vary Series Chambers provide accurate and reliable test results. With more standard features and better performance capabilities than comparable chambers on the market, Q vary Series Chambers improve products through dynamic testing solutions.

Stability chamber



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Application

- Drug and Drug substance testing
- Plant and Vegetable testing
- Electronic chip & Components
- Paint testing
- Chemical testing

Stability chamber are available in temperature or temperature and humidity models. Q vary stability chambers are ideal for stability testing, shelf life, package testing, accelerated aging for a variety of applications including; Pharmaceutical Products/Packaging; Medical Products/Packaging; Personal Care Products; Consumer Products and Research. All stability chambers meet the pharmaceutical stability guidelines for a variety of storage conditions.

Long Term	: 2-8°C, 25°C/60% RH, 25°C/40% RH, 30°C/35% RH or 30°C/65% RH
Intermediate	: 30°C/65% RH
Accelerated	: 40°C/75% RH, 25°C/60% RH

Stability chamber



ECONOMIC or Basic Version

Standard Refrigeration System. Double seal gasket to prevent thermal intrusion. Hermetically sealed, commercially available, India make compressors. Microprocessor based basic PLC led or led display can view and change the set value Temperature and RH. RS232 / RS 485 communication port. Fault self-diagnostic. Audible and visual alarms for temperature deviation, opened door & high condenser temperature. Front mounted, Tools free filter access. Removable tray(s). Lock ensures firmly closing of the door. Heavy duty castors with lock feature. Vents for cable access into the chamber cabin (if requested by customer). One year comprehensive warranty.

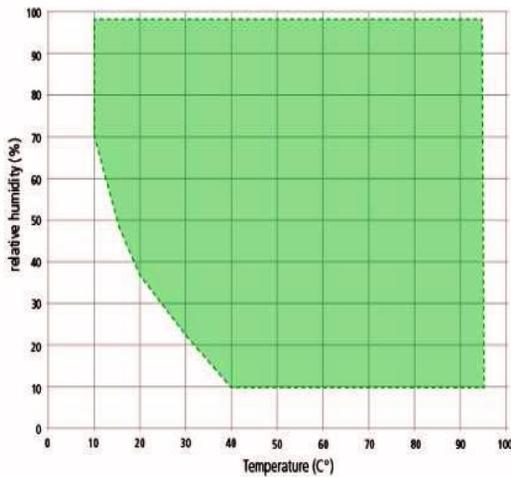


Design Salient Features

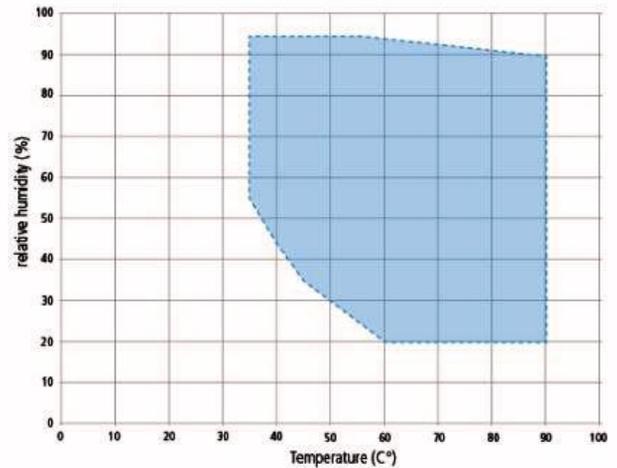
Specifications	ECONOMIC Features	PREMIUM Features
Temperature range	+2°C to +60°C with 0.1°C display resolution and increment.	+2°C to +85°C with 0.1°C display resolution and increment.
Insulation thickness	50 mm PUF insulation	50 mm PUF insulation
Cabinet material	Stainless steel SS304	Stainless steel SS304
Outer material	Powder coated CRCA	Powder coated CRCA
Controller type	PID controller with set & process value display	Microprocessor PLC based controller with HMI set & process value display data logging function.
Temp. sensor	High accuracy Electronic type	High accuracy Electronic type
Temp. deviation alarm	Set value +/-5°C	Set value +/- 2°C
Evaporator	Fin and tube type forced convection	Fin and tube type forced convection
Refrigerant	R134a (CFC, HCFC free refrigerant)	R134a (CFC, HCFC free refrigerant)
Communication	-	RS485 Interface available
Defrost	-	Auto defrosting function
Trays	SS304L	SS304L
Drawers load capacity	Maximum 8bags per tray	Maximum 20Kgs per tray
Alarm function	Temperature and RH deviations only	Door open, Temperature deviation, power failure, Probe failure, defrosting
Data logging	-	Yes

Stability chamber

Similar to *ECONOMIC* model chamber. But with imported compressor. Human machine interface with machine control . Secondary memory (MSD card). Interior light. IQ/OQ/PQ with Two years comprehensive warranty.



PERIMEUM chamber RH control range



ECONOMIC chamber RH control range

Temperature Humidity Working Range

Within the respective temperature-humidity range, permanent operation is possible (at an ambient temperature of $30^{\circ}\text{C} \pm 3^{\circ}\text{C}$, relative humidity < 50 %). Condensation may occur in the threshold range. To which extent depends on the humidity content of the chamber load and the ambient conditions.

Economic chamber RH % set value range is 35% to 90% .RH working temperature limit is 30°C to 85°C . Perineum chamber RH% set value range is 20% to 98% working temperature limit is 20°C to 85°C

PID Control (Proportional-Integral-Differential- with self tune PID)

Control that enables the segmentation of refrigeration capacity mostly. controls only the refrigerator and heating, humidification, de-humidification process, thereby saving energy. Standard temperature ramp up is $0.5^{\circ}\text{C}/\text{min}$ is average, heating ramp up is $3^{\circ}\text{C}/\text{min}$ is average. Specimen temperature control (optional)Attaching a temperature measurement sensor to the specimen enables the temperature of the specimen to be monitored and controlled.

Optional Features:

Interior Light, Voltage Stabilizer, Battery Backup, IQ/OQ/PQ Report, NABL Certificate, Machine control software. Viewing window , cable port, ramp up test function, schedule on/off , cyclic test

Stability chamber

Temperature performance graph

Whether your testing is for R&D, clinical trials or ongoing stability, our stability chambers provide a stable, temperature/humidity conditioned environment for worry-free operation with a control system that is easy to use and saves you time.

Superior, Straight line Temperature and Humidity Control Capable of achieving temperatures of 20° to 60°C ($\pm 0.3^\circ\text{C}$ or better) and relative humidity of 50% to 85% RH ($\pm 2\%$ RH or better).

Microprocessor-Based Controls Q vary series chambers come standard with two microprocessor-based controls with dual digital displays (actual value and set value). Features PID with Fuzzy Logic and Auto tune to ensure straight -line temperature and humidity control.

Model Nomenclature Q-STCN200-P

Temperature low range	Temperature high range	Capacity	Version
STC STC: +35°C to 0°C	N H: 100°C W: 85°C N: 60°C	200 Volume in litter	(P) E : Economic P : premium model

GMP Model Available

Model	INTERIOR DIMENSION			EXTERIOR DIMENSION			TRAY	CAPACITY
	H	L	B	H	L	B	QTY	LITTER
STC60	535	380	290/165	800	465	655	1	55
STC200	1042	506	420	1597	855	500	2	201
STC350	1384	552	503	1988	1010	583	3	364
STC430	1634	552	503	2200	960	583	4	434
STC540	1635	540	640	2203	960	720	5	545
STC1000	1594	612	1052	2250	1015	1132	6	1006

Stability chamber

Updated SEP2020

Chambers

- ⇒ Temperature Chambers (T)
- ⇒ Humidity Chambers (T & RH)
- ⇒ Stability Chambers
- ⇒ Walk In Chambers
- ⇒ Cold Rooms
- ⇒ Freezer Rooms
- ⇒ Cyclic Chambers
- ⇒ Growth Chambers

Chillers

- ⇒ Air Cooled Chillers
- ⇒ Water Cooled Chillers
- ⇒ Process Chillers

Incubators & Ovens

- ⇒ Incubator s
- ⇒ Cooling Incubators (BOD)
- ⇒ Hot Air Ovens
- ⇒ Vacuum Ovens

Freezers

- ⇒ Ultra Low Temperature Freezers (-80° C)
- ⇒ Blood Component Freezers (-80°C)
- ⇒ Deep Freezers & Plasma Freezers (-40 ° C)
- ⇒ Low Temperature Freezers (-20 ° C)
- ⇒ Glycol Freezers
- ⇒ Blast Freezers
- ⇒ Spot Freezers

Refrigerators

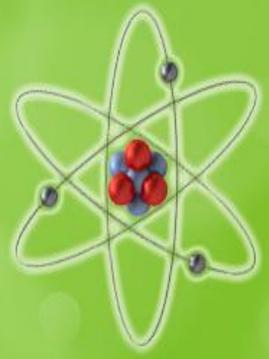
Ice Makers

- ⇒ Ice Cubes Makers
- ⇒ Ice Flakes Makers

Freeze Dryers

- ⇒ Lyophilizes





Q Vary enviro systems

SIMPLIFYING CLIMATIC WORLD

Registered Office: & Factory:

SF no : 333/1a,2a. Vazhuthalambedu,
Thirumudivakkam (Post), Kanchipuram (Dt)
Chennai – 600 044
Tamilnadu
India



Web id : www.qvary.com
Email id : qvary.sales@gmail.com
Cell : **+91 9884009453 / +91 8610343218**