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What is Stability chamber and what are its uses? by [Rods Bhatia](#)

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Stability test chambers are enclosures that are used to detect the effects of pre-specified circumstances on biological materials, industrial materials as well as on electronic components. These chambers are used to detect humidity and temperature ranges. They are fundamentally used in pharmaceuticals industry and involve a lot of research as the entire life of the product is dependent on this chamber. These chambers are even used to find a minute defect in a product.

These chambers are used in the study of cells of living beings. These cells involve setting of specific temperature and other factors are considered for the development of these cells. This kind of study is also valid for vegetables, flowers, and some foods. As we all know, that these products require certain temperature to function, so this is regarded the main function of stability chambers, to detect what temperature a product needs for its survival.

In these chambers, we can produce the best situations that are required to test the productivity of plants and vegetables. We can even test at what temperature these plants can sustain and beyond what level these plants will not be able to function. There are several tests that are being performed on animal cells to bring a transformation in genetics. There are several tests that are even performed on human cells to bring out a change in the life span of humans, to delay the process of getting old, and to delay the stage of grey hair.

There are humidity capsules that are used to control the amount of humidity in a test chamber. The capsule is pierced and is put inside the test chamber. Later on the test material on which the experiment is conducted is placed in other compartments and a sensor cap is used to seal the test chamber. A chamber comprises of a logger cap which encloses a memory chip and a short range transceiver is attached to the sensor cap, whose primary function is to collect and transmit data.

It is very important that before connecting the above items a logger cap must be connected to the laptop. And after the connections have been done, this cap is the attached to the sensor cap to start the test. And at the end, the entire unit is incubated at the desired temperature and humidity conditions are then transferred to the control software for presentation of data.

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[Rods Bhatia](#) - About Author:

Rods Bhatia is a great author. She writes article for Business products and manufacturing units. You can also find information about a [Temperature Test Chambers](#), a [Stability Chambers](#), Humidity Control Rooms, Vacuum Drying Oven etc.

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