White Paper for using the best Stability Chamber

When choosing the size of the stability chamber or room certain considerations must be taken into effect. Today permanent location is a concern, with the flexibility of today's market with the vast amount of merger and acquisitions that take place. Being flexible is very important as well as the cost to relocate. Many times the cost to relocate can close to the cost originally construct.

When you look at the being flexible location one of the major items is the utilities required by as certain piece of equipment. By narrowing the requirements for utilities allows for a more flexible location for the equipment. Many chambers require DI water, electric, drain, pressurized air for a heatless dryer, alarm system contacts.

Validation is also a stringent requirement that may a challenge on the larger size rooms. Validation protocols are easier to develop on a chamber because each room is usually custom and not get manufactured and assembled the same way which would mean that documents would not easily obtained for validation.

Many times there may be different tests or parameters needed for a specific set of tests that would require conditions to be different. There also may be tests that will require a change in parameters during the test which would be difficult to perform in a stability room. Parameters such as light testing would be hard to control in a room and properly control all parameters together.

Providing a specified humidity and temperature for stability testing may appear easier to achieve than the ±5% RH and ±2°C ICH guidelines would seem to indicate. The ability to control humidity at ±2% does not mean that you are safely within the ±5% RH tolerance dictated by ICH. The influence of many such things as sensor placement and air turnover are difficult to design correctly in a large room chamber.

Therefore when using a reach in type chamber it is much easier to be flexible and meet the requirements of such testing. It is also much more flexible when a possible relocation is required.

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