

Inspiring Generations...

WALK IN STABILITY CHAMBER :-

Modular Stability Chamber are manufactured to meet FDA / ICH requirements generating exceptional control and uniformity of both temperature and humidity. Every component of our Stability Chamber is desinged and strategiacally placed for reliability and robust operation through its life span. Our unit enables accurate monitoring of equipment, accurate temperature and humidity control, faster recovery. We guide you on your selection process, enabling you to freeze on stability chamber solution that suits your requirements optimally



SAILENT FEATURES & SPECIFICATIONS

- Pre fabricated PUF panels of 60 mm thickness
- Temperature range 20 to 60°C
- Humidity range 40% to 95%
- Fulfils Long Term, Intermediate and Accelerated storage condition as. 25°C 60% RH, 30°C 65% RH, 40°C 75% RH, 25°C 40% RH
- Temp accuracy of ±1°C and humidity accuracy of ±4%
- Temp uniformity of ±2°C and humidity uniformity of ±4%
- Digital display of temp and humidity
- Heavy duty flush fit door & lock
- Evaporator housing and condensing unit housing
- UV & corrosion resistant condenser
- Floor Aluminum chequered plate or FRP cladding (SS Optional)
- Appropriate lightning for room
- Split type air cooling system
- ISI marked voltage stabilizer as pre requirement (Optional)
- Port Hole with rubber seal to insert sensors for validation purpose.
- Medium duty flooring

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Corporate Office: S.No 71,B-28,Rajsagar,Kirti Nagar,New Sangvi,Pune,Maharashtra,India-411061 Tel: +91-9975777088 / +91-9422771136 Email ID: sagar@spireautomation.com /nisarg@spireautomation.com Web: www.spireautomation.com



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PUF PANELS:-

Our stability rooms are constructed using pre fabricated PUF panels designed specially to ensure high efficiency insulation.

PUF panels used for walls, flooring are 60 mm thick having minimum density of 40 ± 2 Kg/m³ PUF insulation. PUF panels used for ceiling are 60 mm thick having minimum density of 45 ± 2 Kg/m³ PUF insulation. High PUF density in ceiling makes it gives strength to ceiling for making it walkable. 0.5mm sheet is used on both skin of panel and panel skin inner side material is SS 304 and outer is PPGI or MS powder coated as ordered.

Modular in nature this tongue and groove panels (in a range of thickness & dimension) are designed to interlock with ease on the site to form room of any size and any application. Each part of room – walls, ceiling, floors, doors & corners have special panel designed to ensure perfect fit. Gap between panels is filled with silicon sealant to make it leak proof.

The corner panels ensure that the room has 90° corner which provides stability to room. Food grade PVC or metallic coving is done for smooth corner to reduce dust

load in room. Coving is done at wall to wall, wall to ceiling and wall to flooring interface. The foamed in design eliminates thermal and humidity loss.

Heavy-duty door hinges and latches to maintain a secure and uniform seal. A see through viewing window fitted in door for sample inspection inside the room.





assembly is held together fixed in each other by press fit technique

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and sealed using silicon sealant.



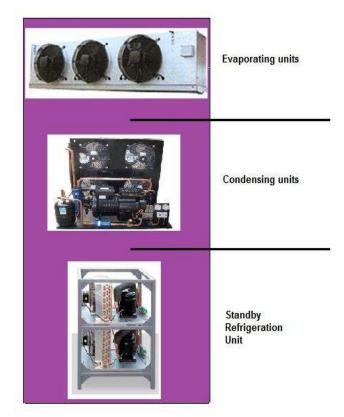
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EVAPORATING UNIT:-

- Evaporating units are compact, slim & sleek so they occupy minimum space ensuring maximum storage space.
- Body which is excellent corrosion resistant
- Inner grooved copper tubes for superior heat transfer
- External rotor driven fans / blowers with low noise level
- Removable side panels for easy service.

CONDENSING UNIT:-

- Condensing unit have high efficiency heat transfer and low power consumption
- Sleek design
- UV & corrosion resistant
- Inner grooved copper tubes and slit aluminium fins for superior heat transfer
- Energy efficient compressor
- CFC free cooling system
- In built safety and control device
- Weather proof canopy



CONTROL SYSTEM:

- Micro processor based LED display PID Temperature and Humidity indicator cum controller with auto tuning facility
- PT 100 temp sensor for measuring temperature
- capacitive type humidity sensors for measuring humidity
- Low water level cut off relay and metal ball float valve for automatic water level control of humidity generating tank
- SS water reservoir with immersion type heaters, low water sensor and alarm for safety for humidity generating tank
- Over temp safety protection and over current protection
- Door open alarm hooter
- Single software supports multiple machines (Optional)

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Model no	Refrigeration capacity BTU/hr	Temp range	Humidity Range	Max Room Volume	Size L x W x H	Power supply
SAII-WSC1	5000	20 to 60°C	40 to 95%	288 CFT	6 x 6 x 8 ft	230V, 1 ph
SAII-WSC2	7000	20 to 60°C	40 to 95%	640 CFT	10 x 8 x 8 ft	440V, 3 ph
SAII-WSC3	12000	20 to 60°C	40 to 95%	960 CFT	12 x 10 x 8 ft	440V, 3 ph
SAII-WSC4	14000	20 to 60°C	40 to 95%	1200 CFT	12 x 10 x 10 ft	440V, 3 ph
SAII-WSC5	19000	20 to 60°C	40 to 95%	1800 CFT	15 x 12 x 10 ft	440V, 3 ph
SAII-WSC6	23000	20 to 60°C	40 to 95%	2250 CFT	15 x 15 x10 ft	440V, 3 ph
SAII-WSC7	38000	20 to 60°C	40 to 95%	4000 CFT	20 x 20 x 10 ft	440V, 3 ph

Optional: -

- Both side PUF panel skin with inner side made of SS 316 and outer skin of SS 304, flooring of SS 316
- Sliding door
- Remote monitoring facility User can monitor room temp and humidity parameter from any place via use of internet.
- Stackable racks of food grade SS 304 or SS 316 for storage of material
- Automatic fault detection and diagnosis: Controller should detect fault automatically and take corrective measures to protect breakdown of the system – Standby refrigeration and humidity system for switch over in case of failure of primary unit.
- 21 CFR Part 11 compliant software for audit trial reports
- Low humidity range and low temp range
- SS 304 flooring
- PLC controlled unit with touch screen display HMI