

DUAL CHAMBER



CONSTRUCTIONS:

- 1) **Double walled** modular structure with **3" thick PUF insulation**
- 2) Inside Stainless Steel and Outside Mild Steel Powder Coated OR SS
- 3) Interior illumination
- 4) Inside **full length observation glass door** with secure gasket
- 5) Handle and hinges for positive sealing with lock and key arrangement
- 6) **Heavy-duty door hinges and latches** to maintain a secure and uniform seal

CONTROLLING SYSTEM:

- 1) PLC Based Controlling with 7" Touch Screen
- 2) **HMI Display & PLC (OPTIONAL)**
- 3) Separate Connection for Main
- 4) IP 22 Protection.
- 5) **Data Storage** of 10,000 Readings.
- 6) Controls Temp & Humidity using **PID Loops**.
- 7) Captures all the events Like Power OFF / Resume,
- 8) Water Level Low/OK, Door Open/Close, etc.
- 9) **RS 485 Communication Port** for PC Connectivity
- 10) **Authorized door Access** only through password protection.
- 11) **Door access** report generation to see the door open activity with reason.
- 12) **E-MAIL Alert (OPTIONAL)**
- 13) **Mobile Alert (OPTIONAL)**

SOFTWARE:

- 1) 21 CFR Part 11 COMPLIANCE (**OPTIONAL**)
- 2) Single software suitable for upto 50 equipments
- 3) Automatic daily data back-up
- 4) Audit trails
- 5) MKT Calculations
- 6) Data export in pdf format

SPECIFICATIONS:

UPPER CHAMBER:

- i) **Temp. Range:** 0 to -20C
- ii) Temp. Accuracy: $\pm 2.0C$
- iii) Temp. Uniformity: $\pm 3.0C$

LOWER CHAMBER:

- i) **Temp. Range:** 2 to 8C
- ii) Temp. Accuracy: $\pm 1.0C$
- iii) Temp. Uniformity: $\pm 2.0C$

SAFETY FEATURES:

- 1) Over heat temperature Cut off with alarm.
- 2) Low temperature alarm.
- 3) Low boiler water level safeguard.
- 4) Electrical overload compressor cut off.
- 5) Time delay for compressor switch on.
- 6) Electrical short circuit breaker

COMPLETE ALARMS:

- 1) Temperature Deviation
- 2) Door Opening
- 3) Water Supply Failure
- 4) Component Failure
- 5) Mains Failure

DIMENSIONS:

MODEL	S. NO	CU. FT	LTRS	INNER	OUTER	SHELVES	WATTS
STD/GMP	1	3	90	45 X 45 X 45	60 X 95 X 175	2	1200
STD/GMP	2	4	120	45 X 45 X 60	60 X 95 X 205	2	1400
STD/GMP	3	8	200	60 X 50 X 69	73 X 93 X 210	2	1500
STD/GMP	4	16	450	60 X 60 X 125	95 X 127 X 219	4	3000