

## Walk-in Chamber

### Specifications

<b>specification</b>	<b>HD-E705-7-1</b>
temperature range	-50C TO +100C
humidity range	40% TO 98% RH
dimension (internal) (w x d x h)	1500 X 1500 X 3000 MM
dimension (external) (w x d x h)	2850 X 1700 X 3200 MM
ramp	variable, temp. 0~5c / min & humidity 0~5%/min in average, no load
accuracy	temp. ±1c, humidity ±2.5%rh
interior walls	stainless steel 304
exterior walls	cold rolled stell plate with baking finish
temperature & humidity measurement and controller	32 bit control and monitoring system. interface facility with rs232 programmable temp. humid. controller
viewing window	multi pane glass window size
port holes	50 mm diameter for wire routing
power supply requirement	three phase, ac380 v ± 10 %, 50 hz
sound pressure level	<72DB (A)
condenser cooling	water cooled

#### general technical specification

#### thermal cyclic chamber

chamber with internal air circulation, and all the heaters and cooling coil located behind/below the false sheet of the chamber and outside the working space

#### interior

the conditioning with air circulation to maintain uniform temperatur

interior have provision for arranging stainless steel

#### insulation

insulation is asbestos-free csc-free, with low thermal conductivity, polyrthene pu foam

#### cooling system

cascade type, refrigeration system with hermetically sealed refrigeration cycles with environment and ozone friendly and chloride free refrigeration

#### door

lockable front opening, with double door latch easy to open

with silicon gasket for perfect sealing

#### viewing window

viewing interlock is sealed to avoid leakage and provided with heating provision to prevent condensation

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## **illumination**

internallight on viewing windows with external control

## **temperature measuring and control system**

the temperature measuring and control system adopts microprocessor system and provided with touch panel for monitoring and digital display:

supplied with support software

software is capable to visualize and graphical analyse the measured & recorded value.

graphical representation and digital display and control of set and actual values

digital input and display of temperature in degree centigrade

fault diagnosis system

120 stroage of programmes

have adjustable safety cut-out against high and low temperature

facility to programme temperature measuring using sensor pt100

## **recorder & pc connectivity**

standard rs -232 interface for pc connectivity

rs-232 cable for pc connectivity along with pc connectivity software

## **port holes**

each port hole provided with silicon sealing bunker (plug)

## **electrical panel**

all power connectors, protection devices power control logic built in the control panel integrated to the chamber

all electrical cables tagged with id number

all electrical function circuit equipped with its own safety device that shuts down the relevant circuit or the entire test chamber if a faulty develops

all electrical systems comply with recognized technical regulation as well as with the accident prevention regulations.

## **standard protection**

protective feature to be provided as follows:

over load trip & earth leakage trip for complete chamber

over load trip for compressors, heaters and motors

over temperature cut-off for compressors

heater be cut off, if air circulation blowers are off

## **operating system**

detailed operating & maintanance manual

operational instruction

complete list parts

preventive maintenance procedure

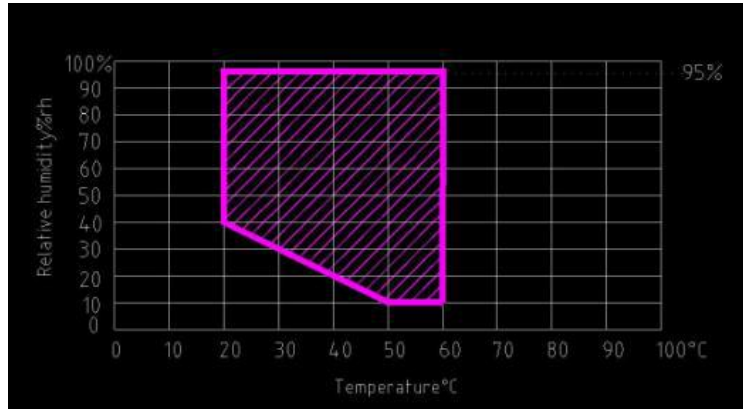
trouble shooting measures

electrical circuit diagrams

**testing sample**

solor panels, size 2mh \* 1mw \* 1md, size 2mh \* 1mw \* 1md

**Humidity Range:**



**Detail Chamber Image:**



**CONTROL PANEL**

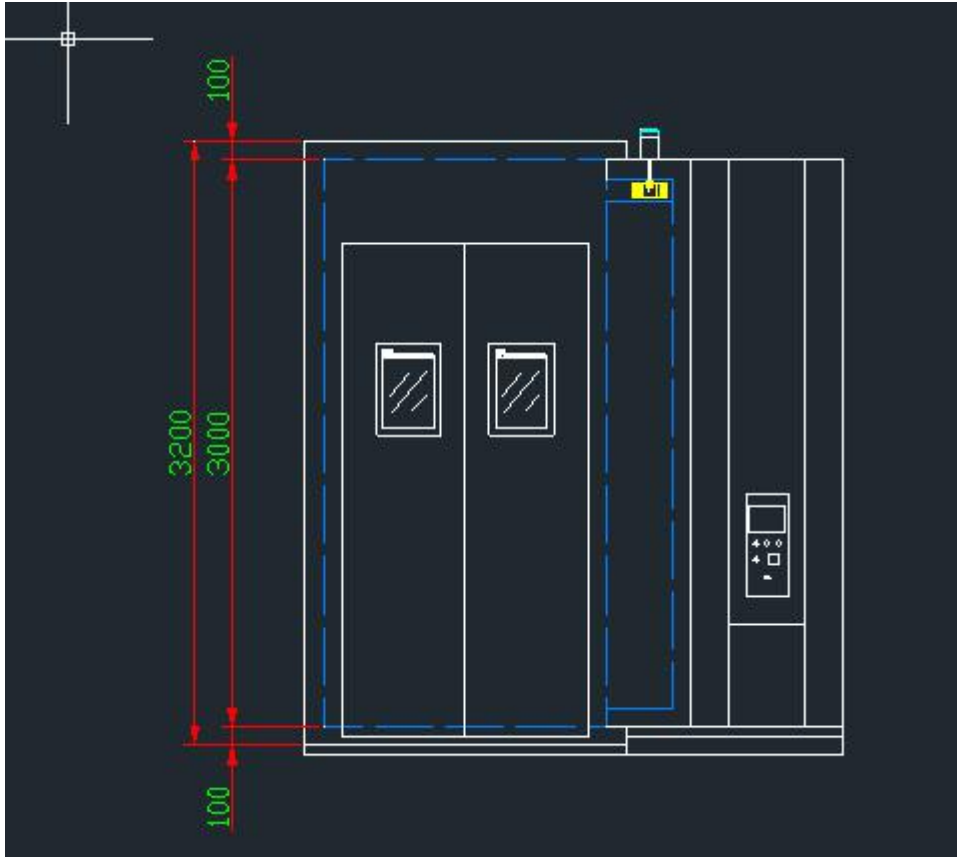


**CIRCUIT BOARD**

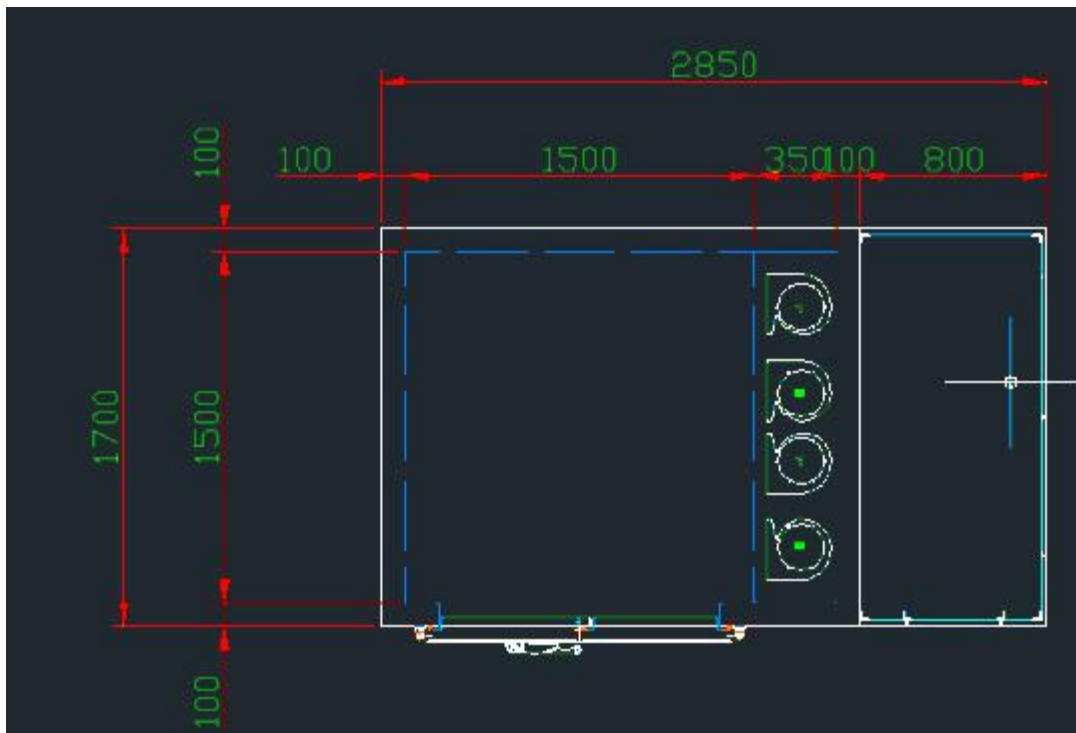
## Cooling System



## Chamber Drawing



Front view



Top view