







What is important to know about

Walk - In - chambers?

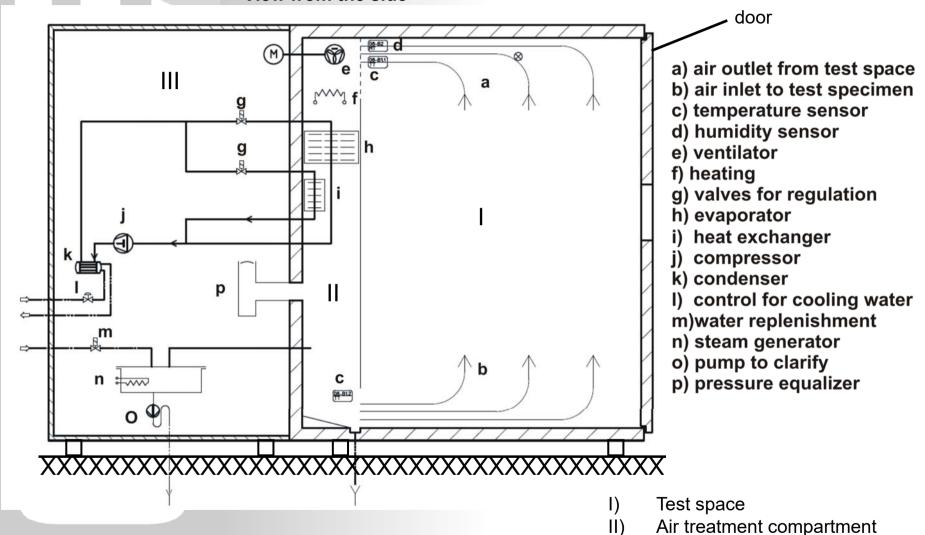




Construction of the cabinets

CLIMA TEMPERATUR SYSTEME

View from the side



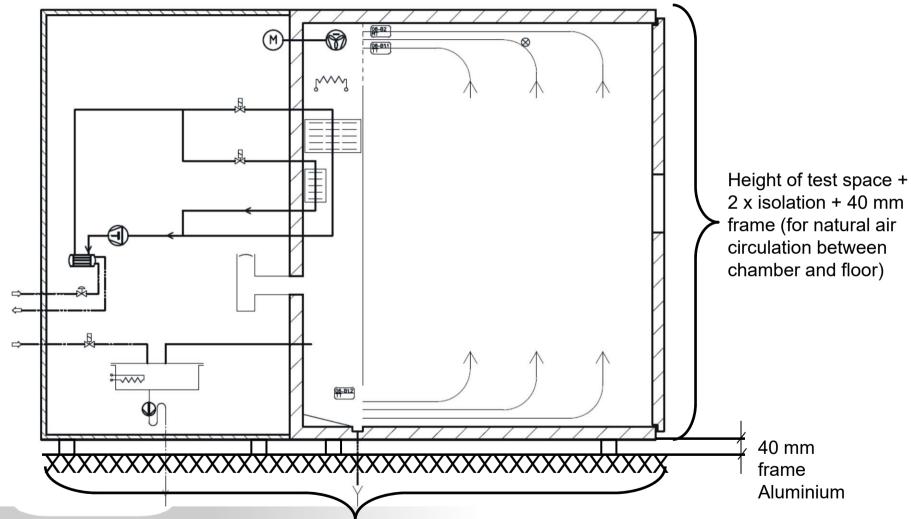
III)

Machine unit

External dimensions of a chamber



View from the side



Depth test space + 2 x isolation + 500 mm air treatment compartment + approx. 1500mm machine unit (depending of the compressor size / performance range)



Different isolation in different temperature ranges

+180°C to -70°C

+120°C to -70°C

< +100°C to -20°C

→ isolation 170 mm

→ isolation 140 mm

→ isolation 100 mm

External dimensions of a chamber



Example for the dimensions:

Calculation of the external dimensions:

Test space: 1500 x 1200 x 2200 mm (w x d x h)

Temperature range: $-60^{\circ}\text{C to } +120^{\circ}\text{C} \rightarrow 140 \text{mm Isolation}$

• width: 1500mm + 2 x 140mm isolation = 1780mm → 1800mm

• depth: 1200mm + 2 x 140mm isolation + 500mm air treatment compartment + approx. 1500mm machine unit = 3480mm → 3500mm

• height: 2200mm + 2 x 140mm isolation + 40mm frame for natural air circulation = 2520mm → 2550mm

Possible designs of a chamber



The machine unit and the control unit is separated from the housing of the chamber

Please note: you have to organise and calculate the assembly and setting into operation and installation of the machine unit and control unit



Compact design

The machine unit and the control unit is included in the housing of the chamber



→Please check dimensions for entrance





When must be the isolation elements welded or not welded?

Connection of the panels without welding: dew point < 69°C

> Example: Temperature

> > Humidity

70°C 95% r.h. Dew point 68,8°C

Connection of panels are vapour tight welded : dew point > 69°C

Example: Temperature

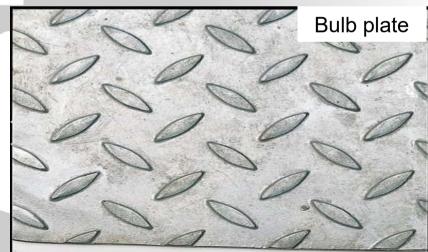
the chamber → humidity can enter into the isolation

Humidity

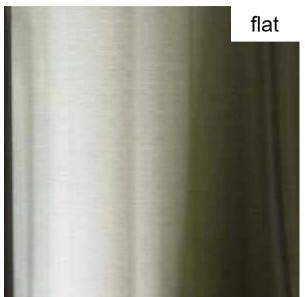
→ Necessary to weld because the vapour pressure is too big from inside

Floor material











Important to know..



Pressure equalizer, for breathing of the chamber





Window is necessary for safety rules



The grate in front of a ventilator







Emergency switch is necessary for safety rules

Door design





< 1500mm we can use a single wing door



≥ 1500mm we need a double wing door

18 m³ Test-Space capacity





Chamber for Solarindustry













compact design

machine - department



Air bag - Test

70 m³ test-space capacity





Airbag

CLIMA TEMPERATUR SYSTEME

Test - Chamber



Air bag - Test inside the test chamber







Loading for transportation



