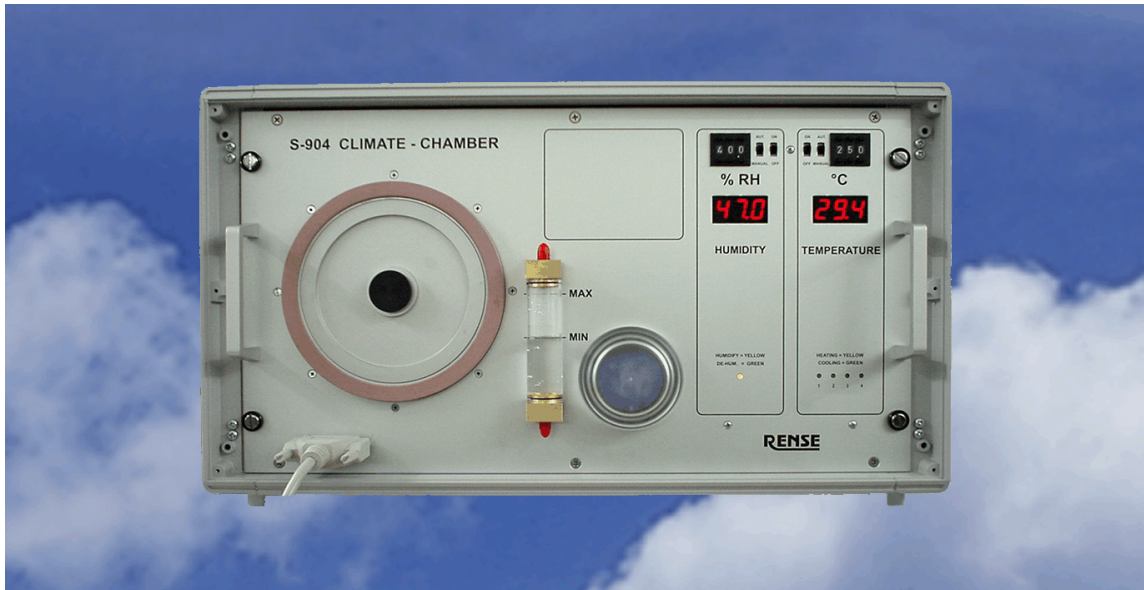


## Climate Chamber type S-904



The temperature of the chamber can be changed by a control system with Peltier elements. The humidity is controlled by a saturator unit and a drying unit with desiccant. A special designed electronic circuit board in combination with a capacitive humidity and temperature sensor controls the chamber. In the chamber, a continuous airflow guarantees a homogeneous temperature and humidity. The set points for both, temperature and humidity can be set by hand or automatically with 0-10 V signals from computer systems.

### **Technical specifications at 20 °C ambient temperature typical values:**

#### **Temperature**

Range	10-50 °C (min. temp.= T ambient. - 10 °C)
Stability	± 0.1 °C
Temperature change 20 → 40 °C	100 °C/h
Temperature change 40 → 20 °C	40 °C/h
Display	0.0 - 99.9 °C LED 14mm

#### **Humidity**

Range	10-90 %RH (depending on conditions, 5-95 %RH)
Stability	± 0.2 %RH ]
Accuracy (10-70 %RH)	± 1.0 %RH >depending on calibration of control sensor
Accuracy ( 5-90 %RH)	± 1.5 %RH ]
Display	0.0 - 99.9 %RH LED 14mm

#### **Features**

Dimensions W x H x D	530 x 300 x 430 mm
Dimensions chamber W x H x D	105 x 105 x 160 mm, 2 litres
Weight	20 kg
Supply	85..264 Vac, 47/63 Hz, 150 VA
Fuse	1 AT

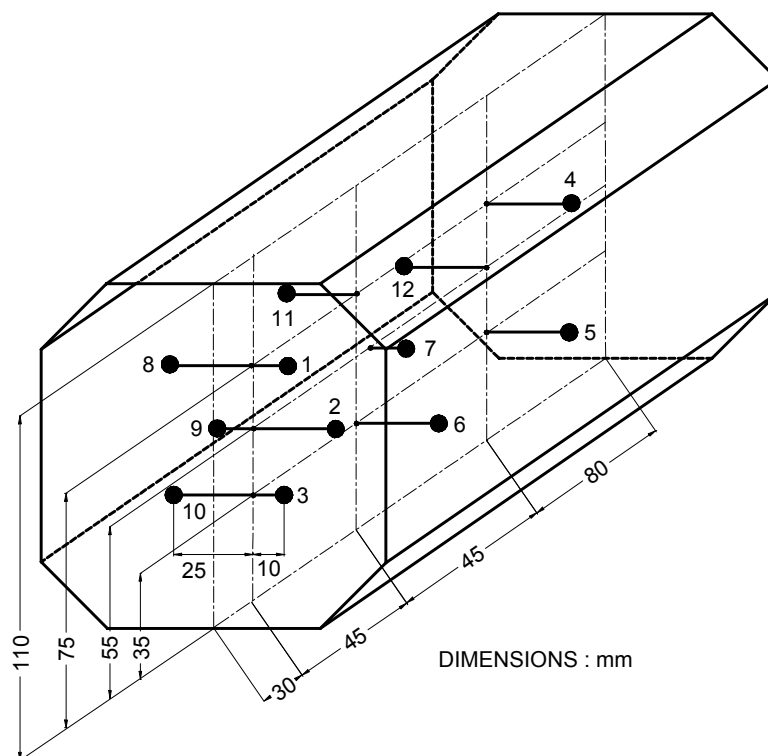
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# TEMPERATURE UNIFORMITY IN S-904

DEVIATION FROM AVERAGE TEMPERATURE AT SEVERAL POINTS IN MEASUREMENT CHAMBER						
SET POINT	12.0 °C	20.0 °C	25.0 °C	30.0 °C	40.0 °C	50.0 °C
AVERAGE TEMP.	11,86	19,99	25,00	30,03	40,06	50,24
SENSOR - 1	0,05	0,04	0,03	0,02	0,04	0,04
SENSOR - 2	-0,05	-0,03	0,00	0,00	0,05	0,08
SENSOR - 3	0,02	0,02	0,01	0,01	-0,01	-0,02
SENSOR - 4	-0,01	-0,01	0,00	0,00	0,01	0,02
SENSOR - 5	-0,02	-0,01	-0,01	0,00	0,01	0,02
SENSOR - 6	0,01	0,01	0,01	0,01	0,00	-0,01
SENSOR - 7	-0,04	-0,05	-0,03	-0,03	-0,02	-0,01
SENSOR - 8	0,04	0,03	0,02	0,01	-0,01	-0,03
SENSOR - 9	0,00	0,00	0,00	0,00	-0,01	-0,03
SENSOR - 10	0,00	-0,01	-0,01	0,00	0,00	-0,01
SENSOR - 11	0,01	0,01	0,00	0,00	-0,01	-0,02
SENSOR - 12	-0,01	-0,01	-0,02	-0,01	-0,03	-0,04



## Warranty

All products manufactured by RENSE Instruments are warranted to be defect free in material and workmanship for a period of one year after delivery.



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