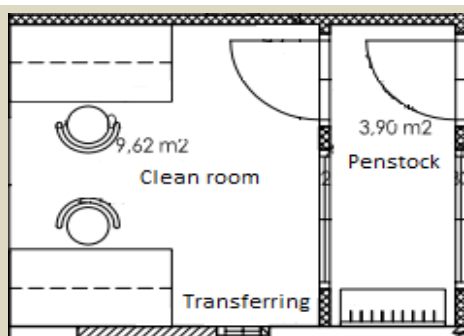




## ISO7 Cleanroom



## Specification

- **ISO7 (Class 10.000) validated**
- The cooling energy is generated by an outdoor inverter refrigerator ( $Q_h=7$  kW)
- Ventilation: clean room 25x, airlock 15x
- Electric heating 0-100% with stepless control
- 20% fresh air supply through H13 grade sterile filters
- Electric heating and blower fan controlled by a frequency changer
- Temperature and humidity control / monitoring  
 $t=21\pm1^\circ\text{C}$ ,  $\text{RH}_{\text{max}}=65\%$



The ISO7 (Class 10,000) cleanroom is validated to the standard regulations and equipped with an antistatic PVC cover and ESD protected desktops. The air handling unit is equipped with 2-step filtration (G4, F9), with cooled heat exchanger, electric heating and blower fan.



Automation system ensures the operation of the ventilation system by controlling temperature, humidity and room pressure. Control works automatically by a controller unit. The collections of the controlled values are ensured by a computer and a graphical data-view, whereon the temperature, humidity and pressure can be monitored and logged. These values are also appear on a display in the cleanroom. Two workstations are available in the cleanroom for activities.

*The cleanroom facilities are competent in completion the following tasks:*

- *Cleanroom soldering under microscope;*
- *Special cleanroom needed electronic development tasks;*
- *Cleanroom encasement tasks;*
- *Cleanroom integration tasks*  
*(satellite on-board equipment and satellite integration).*