

Clean room suitability of Huber temperature control units

Huber temperature control units with water cooling can be used in class C and D clean rooms. If necessary, the temperature control units must be cleaned accordingly before being brought into the clean room area.

Basic working method

Air cooled units emit the heat removed from the application to the immediate surroundings. Ambient air is passed through a heat exchanger by means of a fan.

Water-cooled temperature control units, do not remove the heat by exchanging air directly with the environment, the heat removed from the application is transferred to the cooling water. There is no need for a fan for the waste heat from the heat exchanger.

However, even with water-cooled temperature control units, there is a little air exchange with the environment. This air movement can come from the fans of the circulating pump motor and possibly cabinet ventilation.

Technical aspects

The surfaces of our temperature control units are made of unpainted stainless steel 1.4301.

The temperature control units comply with protection class IP 20. Smaller fans can be used inside the temperature control unit to cool the components. These fans are not equipped with filters as standard.

Installation outside of a clean room:

Alternatively, Huber temperature control units can also be installed outside the clean rooms. In this case, the removable Pilot ONE control panel can be used as a remote-control panel, e.g. for short distances.

Alternatively, remote control of the temperature control units via an Ethernet connection or a company network is possible for longer distances. For this purpose, the Huber PC software "Spy-Control" or any other process control system (PCS) can be used for remote control. Further information on integration into a PLS can be found in our Manual "Data Communication".

We hope to have helped you with this information.

If you have any questions, please contact our sales team +49 (0)781 9603-123