

Combination of training stands – example 1

Heater system with ambient air as the heat source and heater core or floor heating as the heat sink



S2 fan convector as the source or the sink

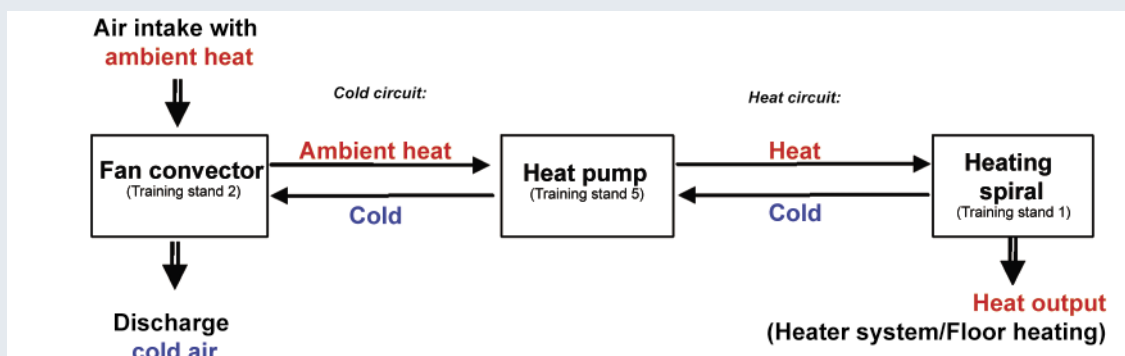


S5 heat pump



S1 geothermal energy source or floor heating

Diagram of the principle:



Experimental set-up

The ambient air is taken in at the fan convector (training stand S2) with the ambient temperature, and the ambient air is fed to the heat pump (training stand S5). Here the heat is removed and transferred via the hot circuit to the three pipe systems (training stand S1) which in this experiment, can be considered to be the floor heating or the heater core. The cold which is generated in this process at the same time is discharged by means of the fan convector (training stand S2).

Simplified view of the experimental set-up:

