

Combination of training stands – example 5

Solar heat coupling in the heating circuit



S3 solar collectors with solar simulation

S4 hydraulic switch, plate heat exchanger and buffer storage

►► Any questions about the product?

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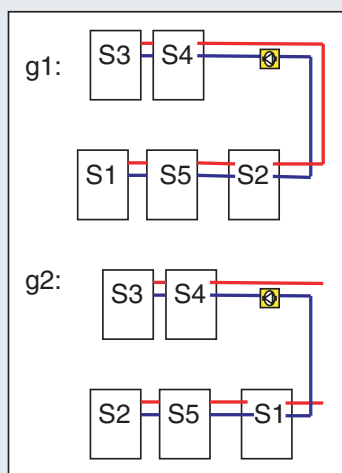



S1 geothermal energy or floor heating

S5 heat pump

S2 fan convector as the source or the sink

Simplified view of the experimental set-up:



Experimental set-up

$S1 + S5 + S3 + S4 + S2$ = Solar heat coupling in the heating circuit as coupling in parallel with the heat from the heat pump.

The solar heat energy can be mixed into the heat-pump heating circuit here both from the hydraulic switch as well as from the plate heat exchanger!

This variant can be used both for the air / water heat pump as well as for the brine / water heat pump. Refer to the circuit for g1 or g2.

The heating circuit circulation pump of S5 ensures the transportation here of energy to S1/2.

The additional circulation pump has to be installed between S2 and S4 to couple the energy from the solar heat!

