

Product Name :
Domestic Water Heating With Tube Collector

Product Code :
DM195



Description :

Domestic Water Heating With Tube Collector

Technical Specification :

Domestic Water Heating With Tube Collector
Investigating the function and operating behaviour of a tube collector
Solar thermal evacuated tube collector with selectively absorbing coating
Connection of absorbers by heat pipes
Adjustable collector inclination angle
Solar circuit with collector, pump, expansion vessel and safety valve
Hot water circuit with buffer tank, pump and plate heat exchanger
4 bimetallic thermometers
Solar controller with temperature, flow rate and illuminance sensors
Data logger with sd memory card
Integrated router for operation and control via web browser using an end device and for tracking experiments on any number of end devices
Experiment evaluation on windows-based end devices possible, with additional producer software of the solar controller
Operation with solar radiation or Artificial light source

Technical data:
Solar circuit
Collector
Total surface: 2,5m²

Absorbing surface: 1,4m2
Number of tubes: 15
Rated throughput: 58l/h
Solar station
Solar pump: adjustable
Safety valve: 6bar
Hot water circuit
Plate heat exchanger: 3kw, 10 plates
Buffer tank 70L
Measuring ranges
Flow rate: 20...320L/h
Temperature: 4x 0...160°C
Pressure: 0...6bar
230V, 50Hz, 1 phase

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