

**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: 2,5m<sup>2</sup>

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: 20â€”320L/h  
Temperature: 4x 0â€”160Â°C  
Pressure: 0â€”6bar  
230V, 50Hz, 1 phase

## Naugralabequipments

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