

**Key Features:** Investigation of formation, effect and function

- Visualisation of water hammer
- Operation of a surge chamber
- Determining the wave propagation velocity in water
- Learning objectives/experiments
- Transient flow conditions in pipe systems by means of experimentation
- Demonstrating water hammer in pipes
- Understanding how a surge chamber works
- Natural frequency in the surge chamber

Technical Specification

- Functioning of a surge chamber
- Pipe section with ball valve and surge chamber
- Surge chamber designed as transparent PMMA tank
- Pressure sensor behind the water chamber for measuring the pressure wave
- Pipe section with solenoid valve and two pressure sensors for measuring water hammer
- Volumetric flow measurement via measuring tank of the supply unit
- length: 5875mm, Ø, inner: 26mm
- Ball valve
- Height: 825mm
- Ø, inner: 50mm
- Pipe section for water hammer
- - length: 5875mm, Ø, inner: 26mm
- - distance between sensors: 3000mm
- - solenoid valve, constant closing time: 20...30ms
- Supply unit
- Pump - power consumption: 250W
- - max. flow rate: 150L/min
- - max. head: 7,6m
- - storage tank: 180L,
- - measuring tank: 60L

Measuring ranges

- Pressure: 2x 0...10bar (pipe section)
- Pressure: 0...0,3bar (surge chamber)
- 230V, 50Hz, 1 phase
- LxWxH: 6800x820x2000mm (total)
- Weight: approx. 155kg

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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