

# HM 161.63

## Trapezoidal flume



### Learning objectives/experiments

- together with a level gauge:
  - ▶ discharge measurement in open channels

### Specification

- [1] trapezoidal flume for the experimental flume HM 161
- [2] trapezoidal flume with sealing lips

### Technical data

- Trapezoidal flume
- narrowest cross-section, WxH: 41x176mm
  - material: PMMA
  - LxWxH: 750x600x260mm

LxWxH: 1050x600x325mm  
Weight: approx. 15kg

### Scope of delivery

- 1 trapezoidal flume
- 1 set of accessories
- 1 manual

### Description

#### ■ typical flow-measuring flume

The two most common methods of determining the discharge of a flume are flow-measuring flumes and measuring weirs. In both methods, there is a fixed relationship between discharge depth and discharge.

Flow-measuring flumes are mainly used in wastewater treatment plants because they are well suited for contaminated water. They can be easily maintained.

Trapezoidal flumes are one type of flow-measuring flumes. The flow cross-section is triangular or trapezoidal with smooth walls. In contrast to Parshall flumes, they often have a smaller pressure head loss for the same discharge and are more suitable for small discharges.

The trapezoidal flume HM 161.63 has a trapezoidal flow cross-section. The transparent walls allow to clearly observe the processes in the flume.

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## Trapezoidal flume

Required accessories

HM 161                    Experimental flume 600x800mm