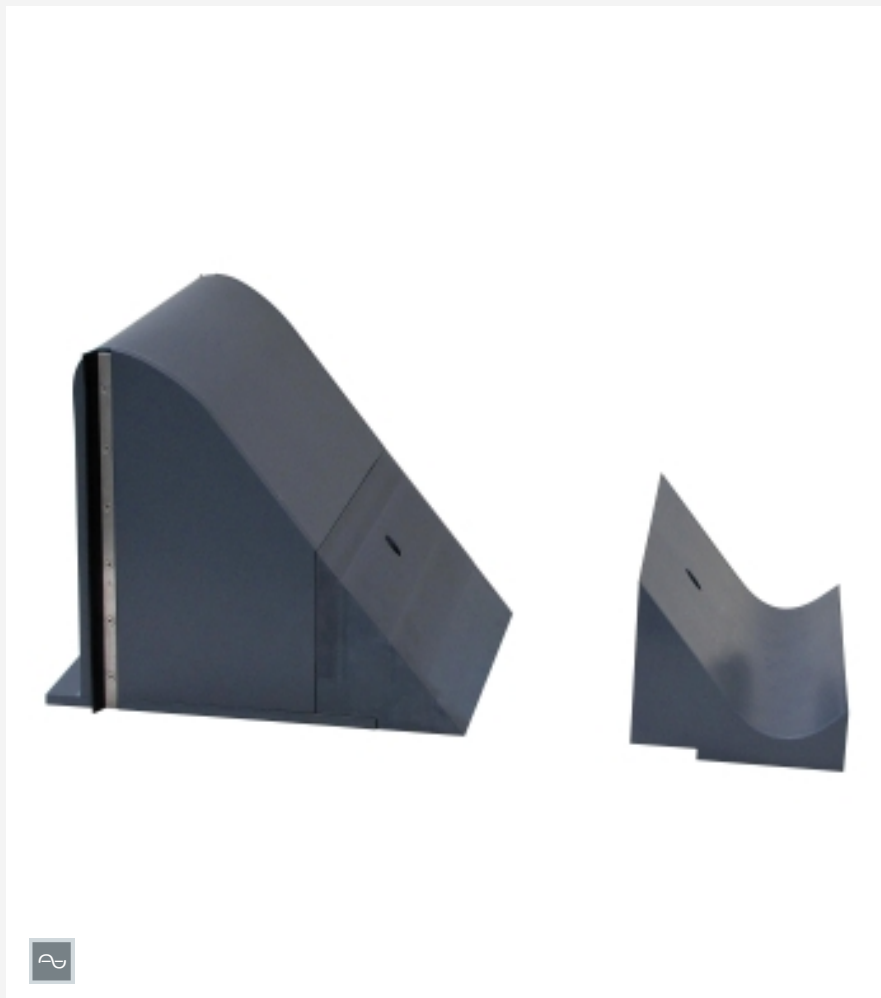


HM 162.32

Ogee-crested weir with two weir outlets



Description

■ flow over ogee-crested weirs

Ogee-crested weirs are fixed weirs and form part of control structures. A flow transition to supercritical discharge occurs during flowing over the weir body. At the end of the weir downstream side, the supercritical discharge has a high flow energy. The excess part of this energy can cause damages. Therefore, energy should be dissipated, e.g. using a ski jump as weir outlet or a stilling basin.

HM 162.32 contains an ogee-crested weir with two different weir outlets [chute only and chute with ski jump]. The optionally available accessory HM 162.35 contains elements for energy dissipation to study further ways of energy dissipation.

Learning objectives/experiments

- effect of the weir outlet on flow processes
 - ▶ chute
 - ▶ chute with ski jump
- position of hydraulic jump depending on downstream water level
- together with a water level and a velocity meter:
 - ▶ determination of the sequent depth
 - ▶ determination of discharge and head
 - ▶ comparison of the theoretical and the measured discharge

Specification

- [1] ogee-crested weir for the experimental flume HM 162
- [2] 2 different weir outlets: chute and chute with ski jump
- [3] weir body made of PVC
- [4] weir body with sealing lips

Technical data

Weir with chute
 ■ LxWxH: 350x309x310mm

Weir with chute with ski jump
 ■ LxWxH: 410x309x310mm

Total weight: approx. 9kg

Scope of delivery

- 1 ogee-crested weir
- 2 weir outlets
- 1 set of accessories
- 1 manual

HM 162.32

Ogee-crested weir with two weir outlets

Required accessories

HM 162 Experimental flume 309x450mm

Optional accessories

HM 162.35 Elements for energy dissipation