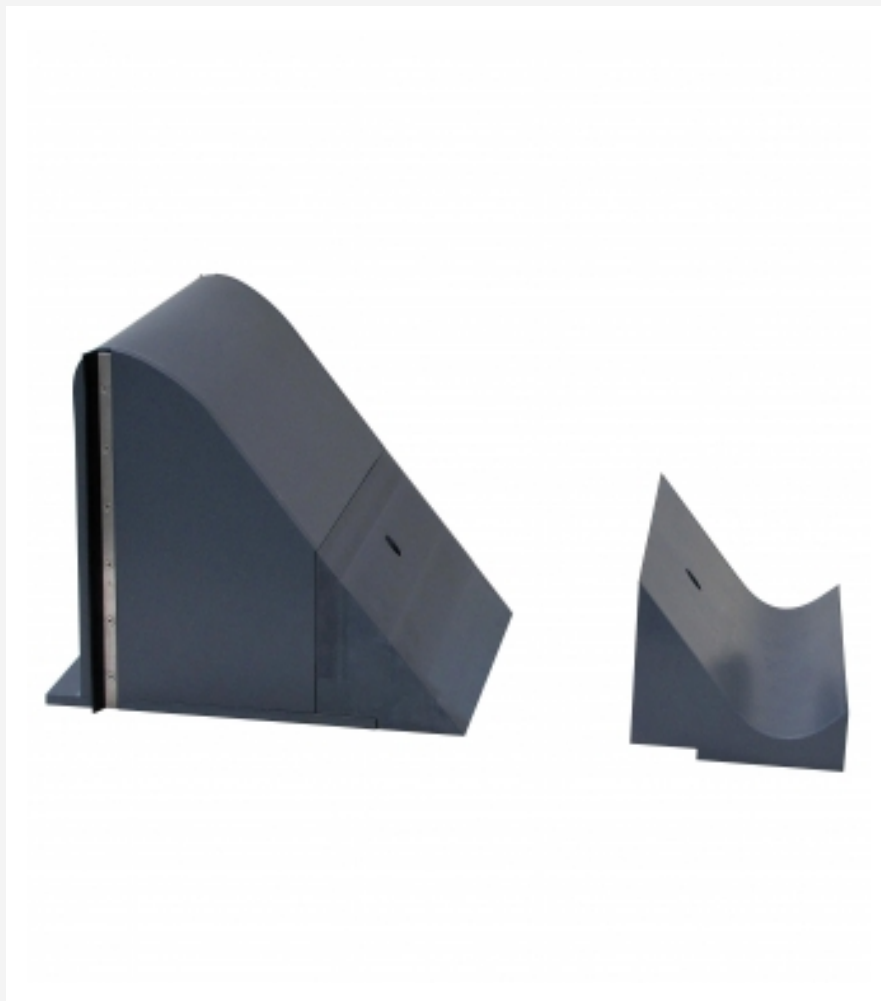


HM 161.32

Ogee-crested weir with two weir outlets



The illustration shows a similar unit.

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 161.32 contains an ogee-crested weir with two different weir outlets (chute only and chute with ski jump).

The optionally available accessory HM 161.35 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 161
- [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: approx. 615x600x555mm

Weir with chute with ski jump

- LxWxH: approx. 715x600x555mm

Total weight: approx. 32kg

Scope of delivery

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

HM 161.32

Ogee-crested weir with two weir outlets

Optional accessories

070.16135 HM 161.35 Elements for energy dissipation