

FLOW THROUGH BOTTOM ORIFICE Mod. HB8/EV

DESCRIPTION

This module consists of a cylindrical tank with an orifice fitted in the base that enables to study the outlet flow. The water fed from the hydraulics bench enters from the top through a system that eliminates the turbulence inside, whereas an overflow keeps the level constant. Under the tank a device enables to position a pitot tube under the jet in different ways. A sharp graduated blade attached to this pitot tube is placed under the jet to measure the outlet jet diameter and the vena contracta diameter, thus the contraction coefficient can be calculated. The static head and the dynamic head across the orifice are shown on manometer tubes placed at the tank side. In addition to the standard orifice, five additional orifices are supplied.



TRAINING PROGRAM:

- Determining the contraction and velocity coefficients
- Calculating the discharge coefficient

TECHNICAL CHARACTERISTICS:

- Orifice diameters: 3,5,8,10 and 13 mm
- Tank diameter: 190 mm
- Tank height: 450 mm
- Height of the overflow: 400 mm
- Manometer: 0-500 mm approx.

Dimensions: 300 × 300 × 700 (h) mm
Weight: 12 kg

REQUIRED

HYDRAULIC BENCH MOD. HB/EV OR HB-E/EV
- NOT INCLUDED -
or water supply (@2 bar) and drain



SUPPLIED WITH

**THEORETICAL-EXPERIMENTAL
HANDBOOK**



OPTIONAL

SPREADSHEET SOFTWARE
For fluid mechanics equipment
Mod. SW-HB8/EV

