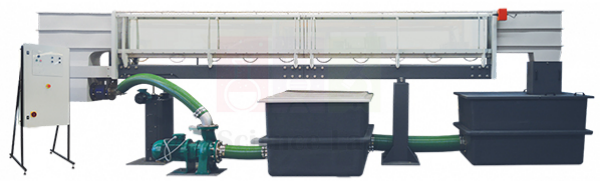
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Meter Flume

Product Code :

SLE/EFM/23



Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

Meter Flume (Product Code: SLE/EFM/23) is a 300 mm wide open-channel flume, available in lengths from 5 to 15 m, for student study and advanced research across a wide range of fluid flow topics. It has its own built-in recirculating water supply with a digital flow meter, and pressure tappings along the working section for detailed measurement. The flume forms the backbone of a university or institute hydraulics laboratory, and a large range of ancillaries is available to extend what it can teach. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a producer of engineering lab equipment in India.

Specifications

Parameter	Detail
Channel width	300 mm
Length	5 to 15 m
Pressure tappings	At 0.25 metre intervals along the working section
Tapping connection	Multi-tube manometer or 32-way pressure display
Water supply	Built-in recirculating supply
Flow measurement	Digital flow meter connected to the recirculating supply
Ancillaries	Wide range available to extend the experiments
Application	Student study and advanced research into fluid flow topics

Typical Use

A flume of this kind supports a full open-channel syllabus: uniform flow and Manning’s equation, specific energy and critical depth, hydraulic jumps, flow over weirs and under gates, and flow around structures such as culverts and bridge piers. Students set the discharge on the digital flow meter, install the structure being studied, and read water levels and the tapping pressures spaced every 0.25 metre along the working section to build surface and pressure profiles. Because the water recirculates, there is no need for a separate sump or mains supply during a session.

For research groups, the longer versions give more distance for flow to develop before it reaches a test model, and the 32-way pressure display option speeds up data collection. Keep the water clean to protect the flow meter, check that tapping lines are free of air before each run, and drain and dry the channel when it will stand unused. Choose the length that suits your room and experiments, and check ancillary fit with us when ordering.

Manufacturer

Larger laboratory installations like this flume are engineered by **Jain Scientific Equipments Private Limited**, which trades as **ScienceLab** from its base in Ambala, Haryana. Learn about the company on our company profile page.

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Email : sales@scilabexport.com
Phone: +91-7082934803