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Product Name :
Advanced flow channels

Product Code :
LBNY-0005-16000031



Description :

Flow straighteners and guide vanes are used. A choice of between one and three flow pumps can be ordered to provide maximum flow rates between 0.3 and 0.8m/s at maximum operating depths. Higher flow rates can be achieved with a smaller depth of water. 300 x 450 mm flow channel (Advanced flow channels) is designed in a modular way to allow different configurations to be purchased against the current and future needs of the user. The inlet chamber has been designed from experience with cavitation tunnels to provide a relatively stable flow. The basic channel is manufactured in 5m sections such that a length of up to 20m can be purchased. The walls of the channel are made from plexiglass (with toughened glass options), the base of the channel is formed from aluminium (with a stainless steel option), and the frame from a coated mild steel fabrication.

Experimental Capability:

Depending on the options purchased, experiments include:
Use and performance of weirs, dams and other hydro structures
Sedimentation transport and settlement
Hull resistance tests and performance
Tidal turbine power measurement
Flow related experiments in open channels
Wind and wave effects on structures.

Technical Specification :

Flow rate of 0.3m/s with variable speed drives with options of higher flow rates
Flow channel with flow cross section of 300 x 450 mm
Operating length 5 to 20m in modular 5m sections

Storage tanks for 2/3 normal water depths
Overall dimensions 1.8m high 1.2m wide and 3m longer than operating length.



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