SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

Phone: +91 7015865225 **Email:** info@scienticoindia.com **Web:** scienticoindia.com **Address:** #71, Industrial Area, Ambala Cantt, Haryana, India

Horizontal Osborne Reynolds Demonstrator | FluidoSurge-X 224

Category: Fluid Mechanics · **Country of Origin:** India

Product Overview

A CE-certified apparatus for demonstrating laminar, transitional, and turbulent flow regimes and determining the Reynolds number, manufactured by Scientico India to ISO 9001:2015 standards. Supplied with calibration certificate, operation manual, and complete export documentation. Designed for Fluid Mechanics laboratories in engineering colleges and technical institutions.

View this product online: https://scienticoindia.com/product/horizontal-osborne-reynolds-demonstrator-fluidosurge-x-224/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Product name	Horizontal Osborne Reynolds Demonstrator
Model reference	FluidoSurge-X 224
Primary teaching purpose	Visualisation of internal pipe-flow regimes and determination of critical Reynolds number.
Orientation	Horizontal transparent experimental pipe section.
Inlet arrangement	Raised supply tank with overflow for stable constant-head conditions.
Visualisation method	Ink injection for observing streamlines and transition.
Final supplied scope	Confirm flow-measurement method, utilities, dimensions, included components, documentation and accessories in the model-specific written quotation.

Key Features

Learning outcomes and experiments

- Observe laminar, transitional and turbulent regimes in horizontal internal pipe flow.
- Use ink injection to visualise a streamline as flow conditions change.
- Identify the transition point and determine the critical Reynolds number from measured flow velocity.
- Relate stable inlet conditions and regulated flow to repeatable observation.

Functional configuration described for this model

- Horizontal transparent experimental pipe section.
- Raised supply tank with overflow for constant-head inlet conditions.

- Ink-injection arrangement for streamline visualisation.
- Flow measurement used to determine velocity at transition.

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

- ▶ Why choose a horizontal Osborne Reynolds demonstrator?
- ▶ What does the experiment determine?
- ▶ Does the page confirm every supplied accessory?
- ▶ What should an overseas buyer send with an RFQ?

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