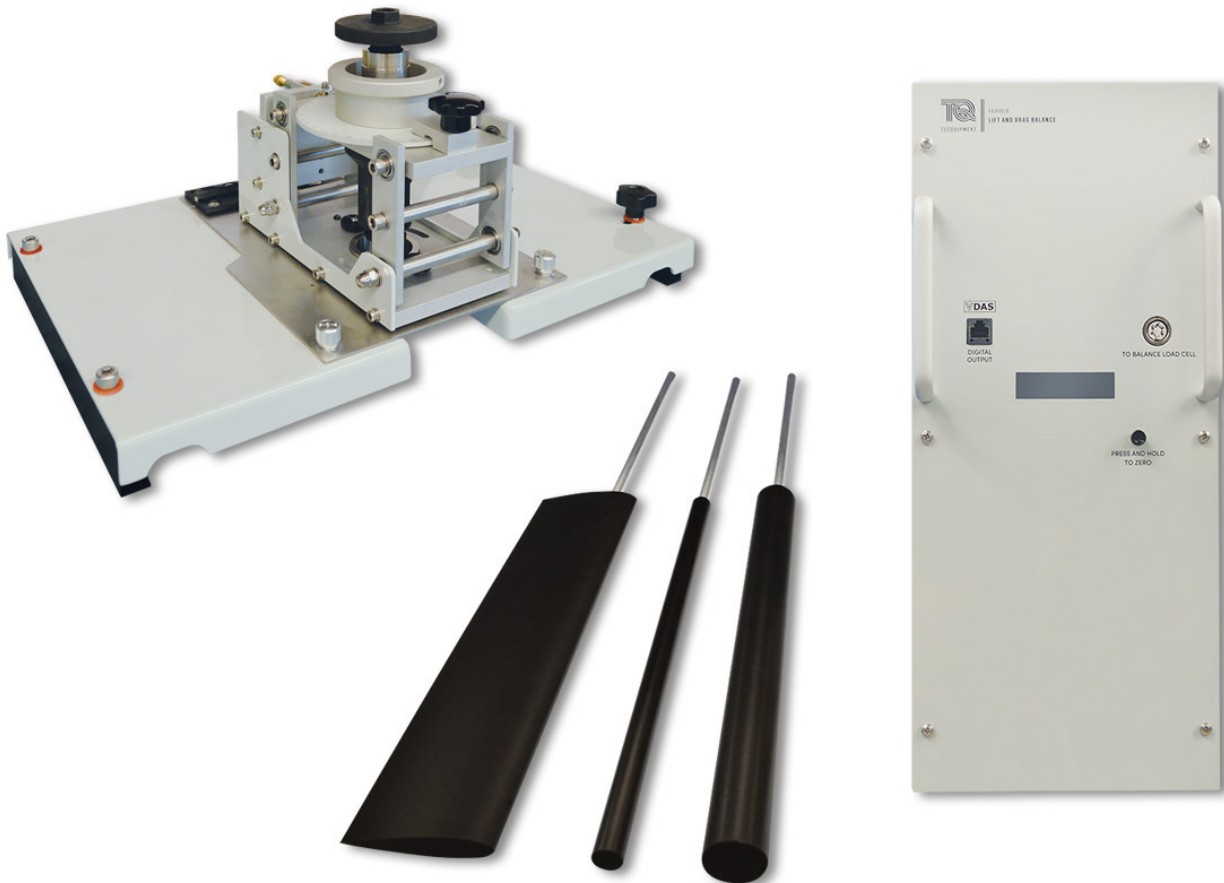


≡ LIFT AND DRAG

VDAS® FC300LD

The FC300ld Lift and Drag module works with TecQuipment’s FC300 flumes range. It provides a means to measure and display the lift or drag on a set of models consisting of two different sized cylinders and a hydrofoil.



KEY FEATURES

- Ancillary to TecQuipment’s FC300 flumes
- Supplied in three parts: balance assembly, control box and set of three models
- Fully compatible with TecQuipment’s Versatile Data Acquisition system (VDAS®) to enable accurate real-time data capture, monitoring and display on a computer

≡ LIFT AND DRAG

VDAS[®] FC300LD

DESCRIPTION

The balance assembly is an articulated parallelogram, linked to a load cell. The parallelogram resists bending moments so that only the force (not the moment) on the model is transmitted to the load cell.

The balance assembly is mounted on a carrier that runs along the rails of the FC300 flow channel.

The display unit displays the force measured by the load cell. This unit is hung on the flume.

It can be interfaced to a PC by means of the flow channel Versatile Data Acquisition System (VDAS-FC). VDAS[®] allows force measurements to be displayed, captured, graphed, conveniently tabulated and exported to a spreadsheet package for further processing.

MODELS

The lift and drag apparatus is supplied with three models.

- Small cylinder
- Large cylinder
- Hydrofoil

STANDARD FEATURES

- Supplied with comprehensive user guide
- Five-year warranty
- Made in accordance with the latest European Union directives
- An ISO 9001 certified company

ESSENTIAL BASE UNIT

- FC300 Flumes

OPERATING CONDITIONS

OPERATING ENVIRONMENT:

Laboratory

OPERATING TEMPERATURE RANGE:

+5°C to +40°C

OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

ESSENTIAL SERVICES

ELECTRICAL SUPPLY:

12 V DC

NOTE: A suitable electrical supply outlet is included in the base of the Water Channel controller.

SPECIFICATIONS

TecEquipment is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

BALANCE

DIMENSIONS:

Nett: 290 mm (length); 460 mm (width); 75mm (depth)

WEIGHT:

6 kg

DISPLAY UNIT

DIMENSIONS:

Nett: 450 mm (height); 200 mm (width) ; 75 mm (depth)

WEIGHT:

5 kg

MODELS

DIMENSIONS:

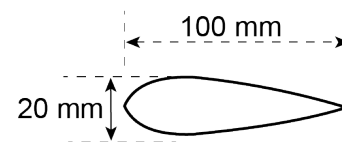
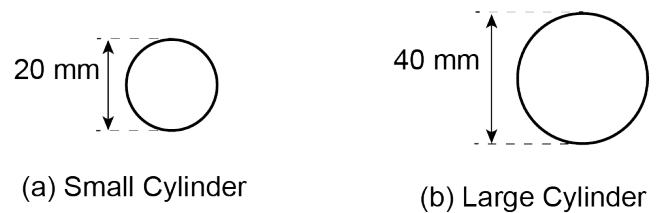
Small cylinder: 450 mm (length); 20 mm (diameter)

Large cylinder: 450 mm (length); 40 mm (diameter)

Hydrofoil: 100 mm (chord); 20 mm (depth)

WEIGHT:

All models combined: 5.5 kg



MODEL DIMENSIONS