



Aerodynamics

AF300a

Schlieren Apparatus

Schlieren apparatus for use with TecEquipment's Intermittent Supersonic Wind Tunnel (AF300)



- Monochrome Schlieren apparatus with a high-power light source and imaging screen
- High-quality, laboratory-standard mirrors and lenses for clear images without distortion
- Shows supersonic air flow patterns around models
- Shows shockwaves and expansions
- Includes digital imaging equipment and video monitor

- TecEquipment Ltd, Bonsall Street, Long Eaton, Nottingham NG10 2AN, UK
- **T** +44 115 972 2611 • **F** +44 115 973 1520 • **E** info@tecquipment.com • **W** www.tecquipment.com
- An ISO 9001 certified company

AF300a

Schlieren Apparatus

Description

A monochrome Schlieren apparatus for use with the Intermittent Supersonic Wind Tunnel (AF300).

The Schlieren apparatus allows students to see density gradients as variations in intensity of illumination. This allows them to see supersonic air flow patterns around models. It also clearly shows shockwaves and expansions, and students can compare their position and angle with values predicted by theory.

The mirrors and lenses are of high optic standards to reduce any possibility of optic distortions of the images.

The apparatus includes digital imaging equipment to record the images, this is useful when using an intermittent supersonic wind tunnel.

The video monitor is particularly useful to display the images to groups of students. The imaging equipment can capture still images and any real-time changes in the image.

Ancillary For:

Intermittent Supersonic Wind Tunnel (AF300)

Standard Features

- Supplied with comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives

Essential Services

Floor space needed:
1340 mm x 780 mm

Electrical supply:
Single-phase
90 VAC to 250 VAC 50/60 Hz
(Usually supplied from the instrument frame of the wind tunnel.)

Operating Conditions

Operating environment:
Laboratory

Storage temperature range:
-25°C to +55°C (when packed for transport)

Operating temperature range:
+5°C to +40°C

Operating relative humidity range:
80% at temperatures < 31°C decreasing linearly to 50% at 40°C

Specification

Nett dimensions: Length 1340 mm x depth 780 mm x height 950 mm and 70 kg

Monitor: Less than 20 kg

Packed dimensions and weight: 0.99 m³ and 134 kg

Mirror quality: 1/4 Lambda

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infoWERK Medien & Technik GmbH

Martinsbühel 6 / A-6170 Zirl / Austria

Phone: +43 (0) 5238 52099-0 / Fax: +43 (0) 5238 52099-40

E-Mail: info@infowerk.at / Website: infowerk.at

Otto-Dürr-Straße 25

D-70435 Stuttgart, Zuffenhausen/ Germany

Phone: +49 (0) 711 342471-0 / Fax: +49 (0) 711 342471-11

E-Mail: info@de.infowerk.at / Website: infowerk.at