



☰ SMOKE GENERATOR

AFA11

A smoke generator and probe for use with TecQuipment's Subsonic Wind Tunnels (AF41V, AF1125, AF1300, AF1300s, AF1450s, AF1600s).



KEY FEATURES

- Produces a steady smoke trail
- Probe shaped to minimise wake generation
- Low oil consumption
- Fully adjustable smoke strength
- Supplied with smoke oil and a spare heater tip



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DESCRIPTION

A smoke generator and probe that allows students to see air flow in subsonic wind tunnels and other low flow rate air flow products.

It is a control unit that pumps oil to the tip of a probe. A low-voltage electrical coil at the probe tip heats the oil to produce a fine smoke trail. The smoke moves into the air stream smoothly and steadily. Students can adjust the controls of the control unit to change the smoke strength to suit the air flow conditions.

The apparatus includes an integral reservoir bottle. Low oil consumption allows approximately six hours of use on one filling of the bottle.

Used to demonstrate flow over objects. The AFA11 is used to highlight flow characteristics over wind tunnel ancillaries, showing laminar and turbulent flow.

Supplied with instructions, smoke probe, spare heater tip and oil.

NOTE: For AF1300 wind tunnels purchased before 2020 please confirm with TecQuipment if AFA10 (supplied with a modified AF1300 wind tunnel window) is required instead.

STANDARD FEATURES

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

ANCILLARY FOR

- Subsonic Wind Tunnel (AF41V, AF1125, AF1300, AF1300s, AF1450s, AF1600s)

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

ESSENTIAL SERVICES

ELECTRICAL SUPPLY (SPECIFY ON ORDER):

Single Phase, 230 - 250 VAC, 50 Hz, 1A

OR

Single Phase, 110 - 120 VAC, 60 Hz, 2A

VENTILATION:

Use this smoke generator in an area that has good ventilation and an air extraction system.

SPECIFICATION

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

DIMENSIONS:

185 mm (height), 290 mm (length), 240 mm (width),

7kg (weight)

APPROXIMATE PACKED DIMENSIONS AND WEIGHT:

0.06 m³ and 11 kg