VDAS® AF1300Y

SMOKE GENERATOR

Produces a fine trace of smoke to allow students to see air flow in subsonic wind tunnels and other air flow products

KEY FEATURES

- Produces a smooth, fine trace of smoke
- 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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VDAS® AF1300Y

SMOKE GENERATOR

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.

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

STANDARD FEATURES

- Supplied with operating instructions
- Five-year warranty
- Manufactured in accordance with the latest European Union directives

ANCILLARY FOR

- Bench Top Subsonic Wind Tunnel (AF1125)
- Subsonic Wind Tunnel (AF100)
- Subsonic Wind Tunnel (AF1300)
- Subsonic Wind Tunnel (AF1600)
- Flight Demonstration Wind Tunnel (AF41)

OPERATING CONDITIONS

OPERATING ENVIRONMENT:

Well Ventilated 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:

Single-phase, 230 V/110 V, 50/60 Hz

VENTILATION:

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

SPECIFICATIONS

NETT DIMENSIONS:

180 mm x 240 mm x 370 mm

APPROXIMATE PACKED DIMENSIONS AND WEIGHT:

0.06 m^3 and 15 kg

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