

# AEROLAB



## COMPLETE SMOKE GENERATOR SYSTEM

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AEROLAB LLC  
8291 Patuxent Range Road  
Suite 1200  
Jessup, MD 20794

Phone: 301.776.6585  
Fax: 301.776.2892  
contact@aerolab.com  
www.aerolab.com

## COMPLETE SMOKE GENERATOR SYSTEM

This introduction serves to give the user a basic introduction to the AEROLAB schlieren system. For a thorough explanation of schlieren systems, see "Schlieren and Shadowgraph Techniques" by Professor G.S. Settles (ISBN 10 3-540-66155-7, ISBN 13 978-3-540-66155-9) of Penn State University.

### BASIC SPECIFICATIONS

- Electrical power: 110VAC ONLY
- Runtime: Approximately 45 minutes per reservoir refill
- Reservoir Capacity: 1 gallon (3.78 l)
- Smoke fluid: White mineral oil or proylene glycol
- Base unit dimensions: 14.5 in x 7.75 in (36.8 cm x 12.7 cm x 19.7 cm)
- Wand length (overall): 18 in (45.7 cm) or 45 in (114.3 cm)

Popular with industry and academic institutions, the AEROLAB smoke generator produces a thick, white smoke.



### THE COMPLETE SYSTEM INCLUDES:

- 1 base/control unit
- 1 gallon (3.78 l) smoke fluid (white mineral oil OR propylene glycol)
- 1 choice of 18 in (46.7 cm) or 45 in (114.3 cm) smoke wand (custom lengths extra)
- 1 quick-release air fitting (to modify existing air supply lines if necessary)
- Instructions and Material Data Safety Sheets (MSDS)

Supplied Quick-Release Air Fitting for Your Existing Air Hose



**SYSTEM REQUIREMENTS**

- 110 VAC ONLY
- Compressed Air Supply - 20 psig (241kPa) min., 150 psig (1034.21 kPa) max.
- Type B power/extension cord or suitable adapter

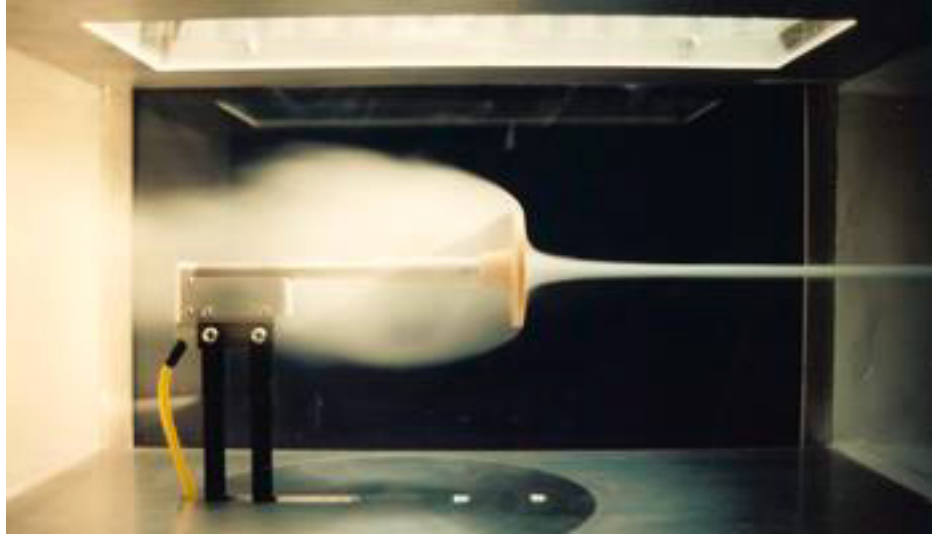
TOP VIEW



Type B plug to your power source and compressed air fitting to your compressor



Type B plug to the wand (provided), fuse and oil fitting to wand



## SHIPPING DETAILS

- Main box (base unit, smoke fluid and air fitting): 15 in x 15 in x 15 in (38 cm x 38 cm x 38 cm), 21 lbs (9.5kg)
- Short Wand Box: 5 in x 5 in x 31 in (13 cm x 13 cm x 79 cm), 3 lbs (1.4 kg)
- Long Wand Box: 5 in x 5 in x 61 in (13 cm x 13 cm x 155 cm), 4 lbs (1.8 kg)