HVUL2
Horizontal Vertical Flame Chamber

Atlas' advanced HVUL2 chamber meets the draft free, large volume requirements of UL 94 and IEC 60695 parts 11-10 and 11-20 with unmatched accuracy, repeatability and safety.

HVUL2 Capabilities and Details

The Atlas HVUL2 Horizontal Vertical Flame Chamber is designed for the flammability testing of plastic materials used in consumer electric devices and appliances. The chamber is constructed of stainless steel with a black interior and large sliding window for easy viewing. The HVUL2 includes a fully adjustable specimen support frame and a precision metered gas burner. Three digital timers with remote control are mounted on the inside back wall of the chamber, allowing for precise and simplified operation.

Sample Holders

Cotton

Foam Material

Plaque

Rigid

Standard Features

- Burner angle adjustable to 0º, 20º, & 45º
- Flexible iris hand access ports
- Remote burner positioning
- Sliding tempered glass viewing window
- Removable burner carriage assembly
- Specimen holders for all 5 burner tests
- Interior light
- Remote control timing and reset
- Electrical gas shut-off solenoid
- Gas control system
- Local gas flow meter
- Digital timers with resolution of 0.1 sec.
- Local gas pressure regulator & gauge
- Flame confirmation kit (meets requirements of ASTM D5207)
- Black interior for easier viewing of flame profile
- Variable speed exhaust blower with damper
- Meets or exceeds CE safety requirements

Technical Specifications

- Physical dimensions (W x H x D):
  Interior: 122 cm (48") x 127 cm (50") x 60 cm (23.5")
  Exterior: 122 cm (48") x 140 cm (55") x 61 cm (24")
- Weights: Bench: 163 kg (360 lbs) Shipping: 245 kg (540 lbs)
- Electrical: 120V, 60Hz, 12A or 230V, 50Hz, 6A
- Testing requires customer-supplied technical grade methane (minimum 98% purity) at 20-40 PSI

Some materials are not suitable for testing in Atlas flammability chambers due to the release of corrosive gasses when burned. Please contact your local Sales Representative for more information.

Advantages

- Conforms to Plastics Industry Test Standards:
  Meets UL 94 tests (except section 10 Radiant Panel Test) and IEC 60695 Parts 11-10 & 11-20
- Easy Setup and Operation:
  Sliding/tilting burner mount, remote controlled timers, and sliding tempered glass viewing window
- Adaptable Specimen Testing:
  Four easily interchangeable specimen holders
- Large Volume, Draft-free Test Chamber:
  Large chamber prevents oxygen depletion aided by draft-free side air vents
- Accurate Gas Control:
  Precision flowmeter and gas pressure regulator/gauge
- Flame Confirmation Kit:
  Allows accurate verification of test flame height and color
- Variable Speed Exhaust Blower System:
  Clears chamber combustion byproducts between tests
- Expanded Testing Capabilities:
  Optional VW-1 Wire Test Kit for testing insulation of wires