

# HMV

## Horizontal Flame Chamber for Motor Vehicles



Atlas' HMV chamber determines the comparative burn rates and burn resistance of textiles, plastics and other automotive interior materials. The HMV conforms to Federal Motor Vehicles Safety Standard No. 302 and is also suitable for use with ISO 3795, ASTM D5132, GM9070P, GMW 3232 and SAE J369.

# HMV Capabilities and Details

The **Atlas HMV** is an essential flame chamber for any lab conducting burn rate and burn resistance testing on automotive interior materials. Its durable stainless steel construction, large glass viewing window, door-mounted burner and lift-off top cover offer quick and convenient specimen access. The loading of specimens has been simplified with a unique snap-together specimen holder. An optional Automatic Gas Control (AGC) features a digital timer and push-button gas controls that provide automatic or manual flame management modes. Designed with user convenience in mind, the **Atlas HMV** flame chamber delivers repeatable and superior performance.



## Features:

|  | Standard | AGC Option |
|--|----------|------------|
| 🔥 Benchtop chamber design*                         | ✓        | ✓          |
| 🔥 316 Stainless steel construction                 | ✓        | ✓          |
| 🔥 Heat resistant glass observation window          | ✓        | ✓          |
| 🔥 Removable top cover for easy specimen access     | ✓        | ✓          |
| 🔥 Door-mounted burner with gas adjustment          | ✓        | ✓          |
| 🔥 Specimen holder for standard & non-rigid samples | ✓        | ✓          |
| 🔥 Stopwatch for specimen event timing              | ✓        | ✓          |
| 🔥 Measurement scale                                | ✓        | ✓          |
| 🔥 Manual gas controls                              | ✓        | ✓          |
| 🔥 Meets or exceeds CE safety requirements          | ✓        | ✓          |
| 🔥 Digital flame impingement timer                  |          | ✓          |
| 🔥 Solenoid gas control valve                       |          | ✓          |
| 🔥 Push-button gas control                          |          | ✓          |

\*All units should be operated in a fume hood.

## Technical Specifications:

- 🔥 Physical dimensions (W x H x D) :  
38 cm (15") x 38 cm (15") x 20 cm (8")
- 🔥 Weights: Bench: 26 lbs (12 kg) Shipping: 75 lbs (35 kg)
- 🔥 Electrical (AGC only):  
95-250 VAC, 47-63 Hz, 0.6A Input 24 VDC, 1.17A Output
- 🔥 Testing requires customer-supplied technical grade methane (minimum 99% purity) at 2-3 PSI

## Advantages:

- Easy Setup and Operation**  
Top loading specimen holder and door-mounted burner
- Adaptable Specimen Testing**  
Specimen holders accommodate a variety of material types
- Accurate Flame Impingement Control**  
User adjustable pilot burner and manual gas toggle valve
- Conforms to FMVSS 302**  
Meets reference standards ISO 3795, ASTM D5132, GM9070P, GMW 3232 and SAE J369
- Optional Automatic Gas Control**  
Auto flame impingement and electronic control ensure repeatable test results



Automatic Gas Control Option