



The
**Fume
Cupboard
Company**

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Gas Proving in New and Refurbished Laboratories

Technical Checklist for Specifiers

This checklist supports safe specification of gas proving systems as part of laboratory gas safety systems for both new-build and refurbishment projects.

System Functionality

- Gas proving system performs automatic downstream pressure testing
- System isolates gas on failed prove cycle
- Proving sequence runs on every gas enable request
- Manual override not permitted without authorised access

Compliance Requirements

- Gas proving meets IGEM/UP/11 requirements (education environments)
- Compliant with BS6173 where applicable
- Supports gas proving compliance for refurbished and legacy installations
- Suitable for inspection and audit purposes

Integration & Interfaces

- Interface with solenoid isolation valves
- Emergency stop integration provided
- Compatible with fire alarm shutdown (where required)
- Clear status indication (visual/audible)

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Control Panel & User Interface

Centralised control panel provided

Clear system status display (normal / fault / proving)

Authorised user control only (key switch or access control)

Suitable for education and multi-user environments

New-Build Laboratories

Gas proving integrated at design stage

Pipework, valves, and controls proven as a complete system

Supports future expansion or layout change

Compatible with laboratory gas zoning strategy

Refurbishment & Retrofit Projects

Suitable for partial upgrades and legacy pipework

- Validates altered pipe routes and connections

No reliance on historic assumptions of pipe integrity

- Minimises commissioning and inspection risk

Risk Management & Operation

Automatic isolation reduces leak and ignition risk

System reduces reliance on procedural controls

Supports insurance and facilities risk mitigation

Clearly demonstrates controlled laboratory gas safety

Maintenance & Lifecycle

Accessible components for testing and servicing

Clear fault diagnostics

Documented test and inspection procedures

Long-term parts availability

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