PP Fume Hood for Acid and Alkali, 1300-1800 m³/h Exhaust, 0.3-0.5 m/s, 8 mm Polypropylene Body

Model **MSFMH-P1200ASWISS,MSFMH-P1500ASWISS,MSFMH-P1800ASWISS** | Brand **Master Science**





The Master Science PP Fume Hood is made almost entirely from 8 mm grade-A polypropylene, which handles strong acids and alkalis far better than painted steel. It suits heavy acid digestion, etching and similar work, and also fits in clean rooms where a non-metallic cabinet is preferred.

KEY HIGHLIGHTS

- Stands up to strong acids
- Captures light and heavy gases
- Sash stays where you leave it
- Complete from delivery

AT A GLANCE

1200 × 850 × 2350 / 1500 × 850 × 2350 / 1800 × 850 × 2350 mm
EXTERNAL DIMENSIONS (W×D×H)

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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www.themsci.com

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Overview

Inside, a three-stage exhaust layout draws off both light and heavy gases with no dead corners. A top hood connects to a 250 mm duct and an axial fan supplied with the cabinet. The counter-balanced tempered glass sash stops at any height up to 700 mm, and a touch panel on the front switches the light, fan and air valve.

For a steel cabinet with carbon filtration and built-in UV, compare the Master Science PP Fume Hood with our laboratory fume hood with carbon filter.

The Master Science PP Fume Hood is intended for high-intensity acid and alkali work, including:

Steel hoods rust and degrade quickly under acid vapour. The Master Science PP Fume Hood addresses:

Key Benefits

Stands up to strong acids
The Master Science PP Fume Hood uses 8 mm polypropylene for the body, lining and worktop.

Captures light and heavy gases
A three-stage exhaust inside the hood removes vapours of different densities.

Sash stays where you leave it
The balanced glass sash can be stopped at any height.

Complete from delivery
Base cabinet, gas collection hood, axial fan and hose come as standard.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSFMH-P1200ASWISS,MSFMH-P1500ASWISS,MSFMH-P1800ASWISS
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Exhaust volume	1300 / 1500 / 1800 m³/h
Exhaust diameter	Ø250 mm (Ø315 mm on request)
Surface velocity	0.3-0.5 m/s
Sound emission	<65 dB
Socket rating	10 A, 2200 W
Body and lining	8 mm grade-A PP, porcelain white
Countertop	8 mm acid- and alkali-resistant PP
Sash	Tempered glass, stepless counter-balanced lift
Control panel	Touch-type, controls lighting, fan and air valve
LED lamp	30 W ×1, anti-corrosion, covered
Power input	AC 220 V, 50/60 Hz

DIMENSIONS & WEIGHT

External dimensions (W×D×H)	1200 × 850 × 2350 / 1500 × 850 × 2350 / 1800 × 850 × 2350 mm
Internal dimensions (W×D×H)	990 × 600 × 1100 / 1290 × 600 × 1100 / 1590 × 600 × 1100 mm
Window opening height	700 mm
Net weight	Approx. 250 / 300 / 350 kg

PROBLEMS THE MASTER SCIENCE PP FUME HOOD SOLVES IN ACID LABS

Corroded steel cabinets	All-PP construction resists strong acids and alkalis.
Fumes escaping at the sash	Up to 1800 m³/h exhaust keeps vapour inside the hood.
Heavy gases settling	Three-stage exhaust pulls from low and high in the chamber.
Unsafe electrics near acids	Covered lighting and splash-proof sockets reduce risk.

Applications

- **Acid digestion of samples**
- **Metal etching and surface treatment**
- **Semiconductor and electronics wet processing**
- **Environmental and mining sample preparation**
- **Clean-room chemistry**

Materials

- 8 mm grade-A PP body welded with matching rods
- No sharp corners on the surface
- PP injection-moulded handles and hinges

Airflow

- Top-hood exhaust with condensate collection trough
- Three-stage internal exhaust, no dead corners
- Ø250 axial flow fan with PP housing

Sash and controls

- Tempered glass sash with counterweight box covered in PP
- PP silent pulleys and corrosion-protected track
- Touch control for light, fan and air valve; splash-proof safety socket

Standard Accessories Included

- Main cabinet
- Base cabinet
- Gas collection hood
- Ø250 axial flow fan
- PP countertop
- LED lamp
- Socket
- 3 m hose with 6 clamps

Optional Accessories

- PP water cup and PP sink
- Single-mouth or three-mouth faucet
- Gas valve, gas nozzle, water valve, water nozzle
- Countertop: 12.7 mm solid physicochemical board, 16 mm epoxy resin or 20 mm ceramic
- 5 mm HPL or 5 mm ceramic fibre lining
- Ø315 axial flow fan
- Duct pipe