PLYMOVENT®
clean air at work

# FLEXHOOD




## Extraction hoods tailored to your needs




# WHY FUME EXTRACTION IS IMPORTANT

Welding fumes, grinding dust, oil mist: the metal industry produces all sorts of contamination. Welders and personnel in working areas are exposed to these air contaminants. It is essential to create healthy and safe working conditions by reducing these risks. Protective measures are an important aspect of this. So important, in fact, that strict international standards have been established to regulate them.
Welding fumes, small particles and remains of molten metal must be dealt with effectively by means of professional extraction and filtration. This ensures that workers feel better, enabling them to perform better. The result is higher productivity and lower absenteeism through sickness.

**FLEXHOOD** Plymovent has developed a modular extraction hood: FlexHood. It features a modular design which enables us to provide the fume extraction solution you need, even where source capture is not possible.

## FLEXIBLE DESIGN

A well thought and modular design of the FlexHood makes it possible for us to tailor the size of the extraction hood. It is available for work areas from 1.5 $m^2$ to 30 $m^2$ with a maximum width of 5,5 metres and length of 5,5 metres. FlexHood can be positioned on leg stands or suspended from the ceiling; either option makes it easy to position the hood in your specific work area. Various options enable you to complete FlexHood with lighting fixture, aluminium legs, and welding curtains.

## SAFETY FIRST

FlexHood is designed to protect welders, personnel in working areas, your working equipment and the facility. The deflection plates in the hood control the airflow and reduce the risk of sparks reaching the filter. Welding curtains are available as an option. They are used to isolate a work area and protect personnel working close by. The curtains also stop sparks and splatters from reaching the environment around the FlexHood. The curtains can simply be cut to the length needed and then be attached to the FlexHood by an easy click system.

## EFFICIENT EXTRACTION

Traditional extraction hoods often have centred extraction. FlexHood has an innovative framework with side extraction, capturing the fumes at the edges of the hood. This very efficient way of extraction prevents fumes from escaping at the sides of the hood. By efficient extraction of all fumes FlexHood creates clean air at your workplace.

## BREAKTHROUGH IN LOGISTICS

Traditional extraction hoods are often bulky and difficult to transport and manoeuvre inside a factory. The FlexHood is a breakthrough when it comes to logistical handling of an extraction hood. It comes in easy to handle modular parts and can easily be put together on location.




## OPTIONS

FlexHood can be completed with the following accessories:

- Lighting fixture - including tubular lighting.
- Welding curtains - available in transparent, semi-transparent red or yellow and non-transparent green; including curtain brackets.
- Aluminium stands - height of 2, 2.5, 3 or 3.5 meters depending on your need.



Lighting fixture



Welding curtains



Aluminium stands

## BENEFITS

- **Innovative design**
- **Efficient fume extraction**
- **Modular and flexible**
- **Easy installation and maintenance**
- **Safety by integrated spark arresting properties**



## TECHNICAL SPECIFICATIONS

- **Standard hood size** from 1.5 to 30.25 m²
  - Width: 1 (3 ft) to 5.5 m (18 ft) in steps of 0.5 m (20 inch)
  - Length: 1.5 (5 ft) to 5.5 m (18 ft) in steps of 0.5 m (20 inch)
- **Weight (without options):** From 56 kg to 468 kg
- **Main material of construction:**
  - Side profiles: *aluminium*
  - Corner pieces: *steel with plastic cover*
  - Stands: *aluminium with steel floor plates*
  - Roof and deflection plate: *resin filled Aluminium sandwich plate*
  - Welding strips: *plastic/PVC*
- **Mounting:** hanging on 4 eye bolts (standard) or on stands (optional)
- **Recommended extraction rates:** 500 – 800 m³/h per m² of hood (27-44 CFM per ft² of hood)
- **Pressure loss over hood:** max. 250 Pa
- **Stands (optional):** height 2 m (6 ft) ,2.5 m (8 ft), 3 m (9 ft) or 3.5 m (11 ft) material can be saw to length
- **Welding strips (optional):** on rolls of 50 m, (appr. 150 ft,) easy to cut to length.
  - Width 300 mm, (appr. 12 inch,) thickness 2 mm, (0.078 inch)
  - Suitable to withstand mechanical wear and welding and cutting spark impact.
- **Connection flanges (optional):** 250 mm (10 inch), 315 mm (12 inch) and 400 mm (16 inch). Selection based on recommended air velocity in duct of 10 to 15 m/s (3 to 4.5 fps)





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**COMPLETE SYSTEM** FlexHood can be connected to the product range of fans, filters and control equipment of Plymovent. A Plymovent system enables you to get fully automatic control of our products in the most efficient way, saving you money and bringing you clean air at work.

Your authorised Plymovent distributor:

***Plymovent cares about the air you breathe. We deliver products, systems and services which ensure clean air at your work environment, anywhere in the world.***

***Our expertise gained over many years, high quality products and genuine commitment to customer requirements enable us to provide precisely the solutions you need.***

Plymovent reserves the right to make design changes. FlexHood_20091231