

USER MANUAL FOR

RECIRCULATING FUME HOOD

TYPE UNIVERS MAV.

SERIAL NUMBER

USER MANUAL FOR RECIRCULATING FUME HOOD

Dear Sir or Madam

You have just purchased a fume hood with an activated carbon filter.

This enclosure is an E.T.R.A.F. (Enclosure for Toxic Substances with Filtered Air Recycling).

It is designed to protect the operator and the environment during operations that may release chemical, toxic or unpleasant vapours (acids, solvents, etc.).

We hope you enjoy using it and remain at your disposal for any information regarding its use or technical details. Yours sincerely,

Eric FITOUSSI

A handwritten signature in black ink, appearing to read 'Eric Fitoussi', with a long horizontal stroke extending to the right.

Quality Manager

- SUMMARY -

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I. STRUCTURE

1 – FRAME

Plastic moulded filter housing. Excellent resistance to conventional chemicals. Easy to clean assembly with minimal retention area.

2 – WORKING VOLUME

Made entirely of safety glass or methyl methacrylate (for special dimensions). Provides a 360° panoramic view. Fold-down methyl methacrylate visor located at the front. Can be opened to 500 mm. However, we strongly recommend that you keep the visor down during handling.

3 - LIGHTING

Lighting is provided by white fluorescent tubes located outside the working area, which allows all electrical components to be insulated in accordance with standard NFX 44201. Lighting level of 600 to 800 lux on the work surface.

4 - VENTILATION

This unit is equipped with a centrifugal fan with a variable speed motor, or a robust steel sheet suction structure that requires no special maintenance. Mounted on shock absorbers at the top of the suction box, this fan has a statically and dynamically balanced turbine/motor assembly with a long service life. Low noise level. The choice of fan, taking into account its characteristics, allows us to guarantee a constant flow rate despite an increase in the pressure drop of the activated carbon.

5 - FILTRATION

The MAV UNIVERS is equipped with a very large activated carbon filter (11 kg) that guarantees the purification of the extracted air from harmful, odorous or toxic gases. The large exchange surface area of the activated carbon (12,100,000 to 13,200,000 m²) allows for better retention of gaseous products.

6 – HOUR METER

An hour meter records the operating hours of the activated carbon filter fan.

7 – SPEED CONTROLLER

A variator that controls the speed of the motor allows the flow of extracted air to be adjusted according to the concentration of gases to be removed. In order to achieve excellent adsorption results, the extraction speed must be measured. A high flow rate does not allow for satisfactory retention. We recommend a speed of between 0.3 and 0.5 m/s.

8 – OPTIONS

- Worktop: stainless steel, Formica, tempered safety glass, PVC, PPH, etc. (the MAV is delivered without a worktop).
- Specific activated carbon cartridge.

II. OPERATING PRINCIPLE / SAFETY

1 - OPERATING PRINCIPLE:

This extraction hood offers a large working volume in a small footprint. This compact hood is very easy to install and can be placed directly on a workbench, work table, workbench or under a worktop.

Quick to set up, no fixing required, no need to connect to an external extraction duct.

Recycles air in the room, improving indoor air quality. Operation has no impact on room air conditioning.

Thanks to its independent suction and filtration box and its working volume consisting of safety glass panes, these enclosures are very easy to transport and assemble.



MAV Univers

2 - SAFETY:

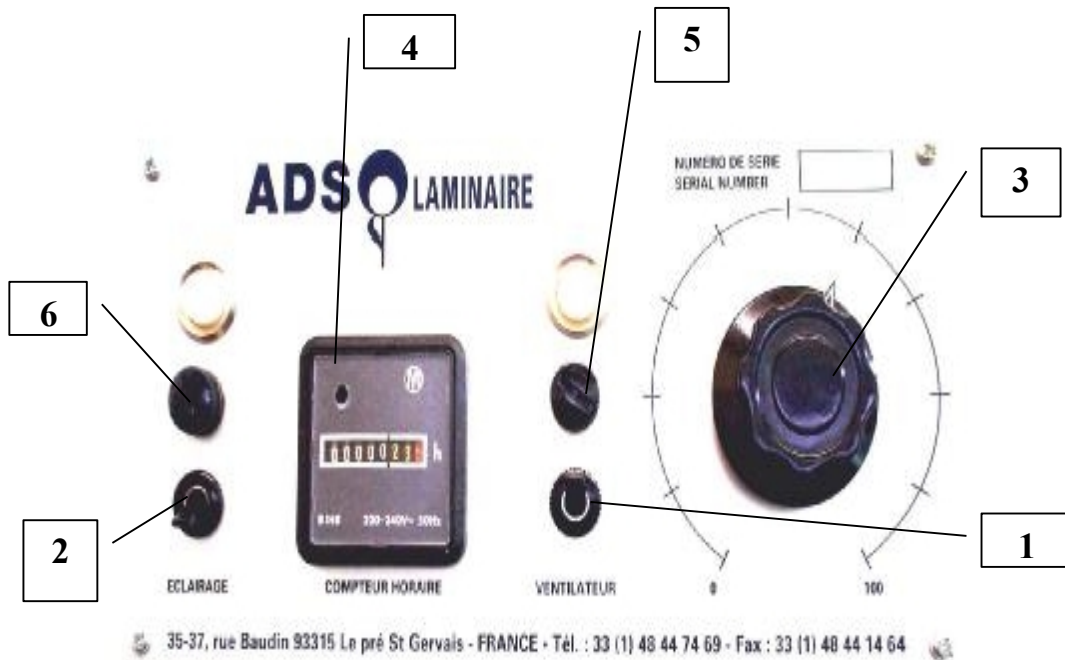
To ensure maximum safety during use, this hood is equipped with fully manual controls. This allows the user to adjust the suction speed according to the type and quantity of products used.

To increase the safety level of the MAV Universe, a sampling chamber has been installed. Near the control panel, an air sampling port allows sampling downstream of the activated carbon. Depending on the quality procedure in force in your department, you can test the effectiveness of your activated carbon at any time.

III. USE OF THE RECIRCULATING FUME HOOD

START-UP:

- 1- Turn on the fan (ON/OFF switch).
- 2- Turn the speed control knob to approximately 80%.
- 3- The hood can be put on standby (when not in use) Set the speed control knob to approximately 40%
- 4- Hour meter
- 5 and 6 - Safety fuses



You can then begin your manipulations.

IV. CONTROL PANEL

The control panel on your MOBILE ADSORPTION HOOD includes:

- On/Off/Light switch
- Fan speed control
- Hour meter
- Lighting fuse
- Fan fuse

PROCEDURE FOR STARTING UP THE ENCLOSURE:

- Place your hood on its work surface (or workbench or stable horizontal table).
- Connect the enclosure to a 220V+T 15 A.50 HZ single-phase power source.
- Press the "fan on" switch to start the ventilation system.
- Use the speed control to increase or decrease the air flow rate.

V. TECHNICAL DATA

TECHNICAL DATA FOR THE RECIRCULATING FUME HOOD:

	MOBILE ADSORPTION HOOD
Type	TYPE: UNIVERS MAV
Weight	50 kg
Power Electric	600 W
Extraction flow rate m3/h	900
Useful width (mm)	905
Height (mm)	925
Useful depth (mm)	600
Depth H T	600
Useful height	700
Height H T (mm)	900
Fan type	RGE 160
Activated carbon filter type	CALK 3/9
Lighting	Fluorescent 600
Type of dimmer	SRT 2/23 EN
UV type	
Noise level	L65 dB according to NF standard L60 dB according to European standard
Power supply	Mono 220V + T 15 A 50 Hz
Illuminance level	600 to 800 Lux

ADS Laminar reserves the right to change the references of certain components of the MOBILE ADSORPTION HOOD.

VI. MAINTENANCE

Activated carbon filter: The average service life of the activated carbon filter is 6 months to 1 year.

This duration depends on the amount of evaporation and the type of toxic products adsorbed, as well as the surrounding conditions (temperature, humidity).

Thanks to easy access and a simple fastening system, the activated carbon filter is easy to replace.

Procedure

- Disconnect the UNIVERS MAV
- Disconnect the lighting unit
- Remove the blower box (plastic structure)
- Replace the used filter
- Replace the blower box
- Reconnect the lighting unit
- Reconnect to the mains

Motorised fans: Maintenance-free.

Fluorescent lighting: Direct access to the strip light located in the working area.

VII. ABSOLUTE FILTER ORDER FORM

TO BE SENT: **BY FAX:** + 33.01.48.44.14.64

BY POST: ADS LAMINAIRE
35/37 RUE BAUDIN
93315 LE PRE ST GERVAIS CEDEX
FRANCE

Dear Sir or Madam,

I would like to place an order for filters for my extractor hood, **serial number**

.....x CALK3/9

See section VI "Technical Data" for filter and enclosure compatibility.

YOUR COMPANY/ESTABLISHMENT:

.....

ADDRESS:

.....

TEL:

FAX:

CONTACT PERSON:

DEPARTMENT:

STAMP AND SIGNATURE

VIII. WARRANTY AGREEMENT

The **MOBILE RECIRCULATING FUME HOOD** is guaranteed for 1 year for parts and labour (in mainland France) for any manufacturing defect (excluding consumables).

WARRANTY TERMS AND CONDITIONS:

- During the warranty period, the customer will benefit from free parts and labour in the event of a breakdown (in mainland France).

- The warranty does not apply to consumables that need to be replaced.

- The warranty does not cover:

- In the event of damage resulting from misuse or lack of maintenance (failure to follow instructions) or damage resulting from external causes (theft, water damage, fire, falls, etc., see your establishment's insurance policy).

- In the event of external intervention, other than by **ADS LAMINAIRE**, during the warranty period.

The **MOBILE RECIRCULATING FUME HOOD** is certified compliant with standard NFX 15-211. Under no circumstances shall ADS Laminaire be held liable for changes in standards taken into account at the time of manufacture of the hood.

IX. MAINTENANCE CONTRACT

To ensure that your **UNIVERS MAV** enclosure is used in optimal conditions, we have drawn up a maintenance contract for you, which can be carried out by our technical department.

This contract commits our company, **ADS LAMINAIRE**, to carry out inspection and monitoring visits to your hood at intervals defined with your establishment and agreed upon by mutual consent.

This maintenance contract includes:

- Travel by our technical service.
- Removal and refitting of the activated carbon filter(s) (supplies not included).
- The following checks: electrical circuit, calibration of pressure gauges and speed variator.
- Inspection and, if necessary, cleaning of the fan turbine.
- Checking connections and contactors.
- Restarting the hood.
- Adjustment of the hood's suction speed
- Smoke test
- Inspection report

ADS LAMINAIRE will repair and/or replace any defective parts and filter elements if it deems necessary, and after agreement, to ensure the proper functioning of the equipment until the next scheduled service visit under the contract.

-Three-month warranty on spare parts replaced by us during the service call.

Your maintenance contract is available upon request. Please do not hesitate to contact your ADS LAMINAIRE representative.

X. CE/EMC CERTIFICATE

EC DECLARATION OF CONFORMITY

The manufacturer, upon placing the product on the market, hereby declares: **ADS**
LAMINAIRE

35-37 rue Baudin
93315 Le Pré-Saint-Gervais cedex

declares that: All new equipment designated below:

TYPE: **UNIVERS MAV**

Case: 96 602 1070 59 6600 GA 380/01865801.7R-RN/ma

complies with:

- the regulatory provisions defined in Annex I of European Directive 89/392, as amended to date by Directives 91/368, 93/44 and 93/68.

- Decree No. 92-767 of 29 July 1992 transposing European Directives 89/392 of 14 September 1989 and 91/368 of 20 June 1991 with regard to the technical rules and conformity certification procedures applicable to it.

- the following directives: *73/23 EEC - 89/336*

- To the legislation of a Member State of the European Union transposing the aforementioned European directives (1)

- to national standards: *NFC 20.010 / NFC 20.030*

Done at: **Pré-Saint-Gervais (93)** on: **23 January 2001**

Name and position of signatory: **B. BIJAOUI - Managing Director -**

Signature:



(1) Valid only in the case of export and at the request of the Member State. In this case, specify the name of the State and the nature, title and date of the applicable legislative or regulatory act(s).

XI.DIAGRAMS

XII. ASSEMBLY DIAGRAMS

