

# User Manual.

## MF-ECO HEPA H13/W3 Jet-Pulse. Mobile Extractor-Filter with Compressed Air Pre-Filter Cleaning. For Stainless Steel Welding Fume.

### STAINLESS STEEL Welding Fume.

MF-ECO HEPA/W3 Jet Pulse is a Mobile Extractor-Filter with Pre-filter Cartridge (9m<sup>2</sup>) and HEPA H13/W3 Filter (9m<sup>2</sup>). Suitable for light Stainless Steel Welding. Total filter area 18m<sup>2</sup>. The unit has a built in Jet-Pulse Cleaning system for the pre-filter. No expensive replacement pre-filters needed! It can be cleaned 50-100 times. The economical solution for light Stainless Steel welding fume and light dust.

### Jet Pulse Cleaning

The F9 pre-filter cartridge (9m<sup>2</sup>) has over 99% efficiency. When the extraction through the hood is not good enough, you connect the unit to compressed air with the included compressed air hose. It takes just a few minutes to clean the pre-filter with the built in Jet Pulse system. Then open the door and empty the dust bin. Ready to use again!



### HEPA H13/W3

The HEPA H13/W3 filter box (9m<sup>2</sup>) has over 99.95% efficiency. It is efficient against dangerous welding fume from for example stainless steel. When, AFTER CLEANING OF THE PRE-FILTER, there is not enough extraction through the hood, it is time to change the HEPA Filter Box.

### Flexible and economical

MF-Eco HEPA Jet Pulse is robust, yet the easily manoeuvrable 4 pivoting wheels with brakes make for effortless transportation. Add to this the super-flexible Flexi Extraction-Arm, and you have a versatile and flexible filtration unit. It can easily be moved between different work stations.

The Plymoth products are a combination of Well Proven Technique and Progressive New Ideas.

	Art.Nr.
MF-ECO HEPA H13/W3 (18m <sup>2</sup> ) Jet-Pulse.1~/220V/1.1kW/50Hz. Arm not included.	P-792
MF-ECO HEPA H13/W3 (18m <sup>2</sup> ) Jet-Pulse 3~/400V/1.1kW/50Hz. Arm not included.	P-793
Flexi Table/Filter Extraction Arm FLB 2m/d.160mm.	P-168
Flexi Table/Filter Extraction Arm FLB 3m/d.160mm.	P-169
F9 Replacement Pre-Filter Cartridge (9m <sup>2</sup> ).	P-541
Replacement HEPA H13/W3 Filter Box (9m <sup>2</sup> ).	P-544
Holder for 2 Flexi Extraction Arms d.160mm (max.3m).	P-086
Flexi Table/Filter Extraction Arm FLB 2m/d.200mm.	P-170
Flexi Table/Filter Extraction Arm FLB 3m/d.200mm.	P-171

# MF-ECO HEPA H13/W3 Measures.



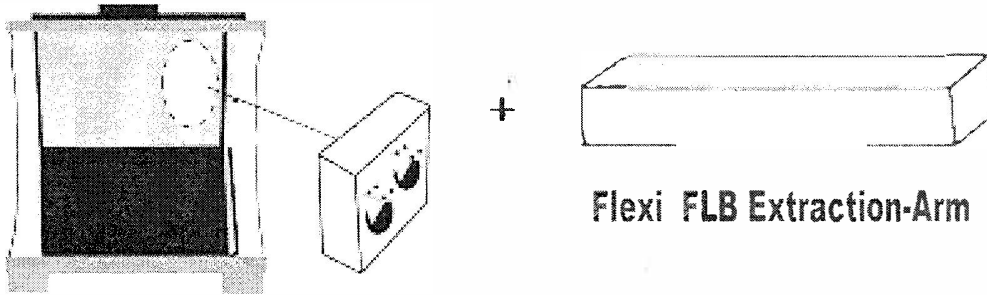
Techical Data		
Volt/Phase	230 Volt / 1~	400 Volt / 3~
KW	1.1 kW	1.1 kW
Ampere	6.53 A	2.3 A
Revolutions/minute	2.900 R/min	
Frequency	50Hz	
	IP 55	
Weight	70 kg	
Pre Filter Cleaning	Jet Pulse Compressed Air.	
Pre Filter	Filter Cartridge F9 (9m2)	
HEPA Filter	HEPA H13 Filter Box (9m2)	
Efficiency	>99 % and 99.95%	
Noice level (DIN 45635 T1)	ca. 70 dB(A)	
Indoor temperature	+5° C bis +35° C	

# Mounting Instruction MF-ECO HEPA H13/W3

Mounting instruction - Montageanleitung - Instruction de montage - Instrucción de montaje

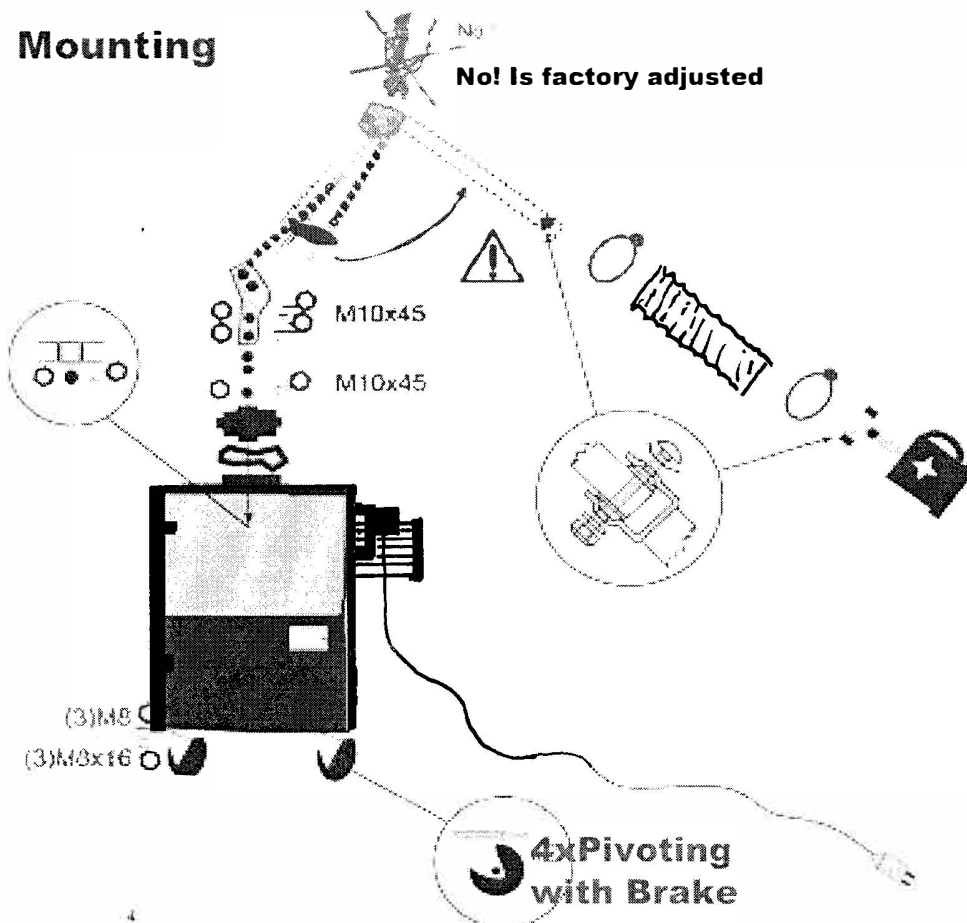
Istruzione di montaggio - Montagehandleiding - Asennusohje - Montage instruktion

## Delivery



## MF Mobile Extractor Filter

## Mounting



# MF-ECO HEPA H13/W3.

## Operating Instructions

The filter unit is only intended for indoor use. It shall be equipped with an Extraction Arm which covers a radius of two or three meters. In order to achieve a maximum collection level of air pollutants, the extraction unit's hood shall be positioned as close to the pollution source as possible without extracting sparks.

The filter unit is designed for extraction and filtration of light Stainless Steel welding fume. If it is equipped with a F9 Prefilter Cartridge (9m<sup>2</sup>) and a HEPA H13 Filter Box (9m<sup>2</sup>). The Prefilter can be cleaned with the built in Compressed Air cleaning system. It just takes a few minutes and can be done 50-100 times.

The MF-Eco HEPA can also be used for light fine grinding dust, etc. *Note that the unit is not to be used for extraction of fluids or Gases.*

Before use, check the voltage and frequency on the product's rating plate before it is connected to the power supply. All four of the wheels on the filter unit are pivoting and with brakes which makes it very easy to move even in difficult positions. The brakes make it stay where you leave it even when you move the Extraction-Arm.

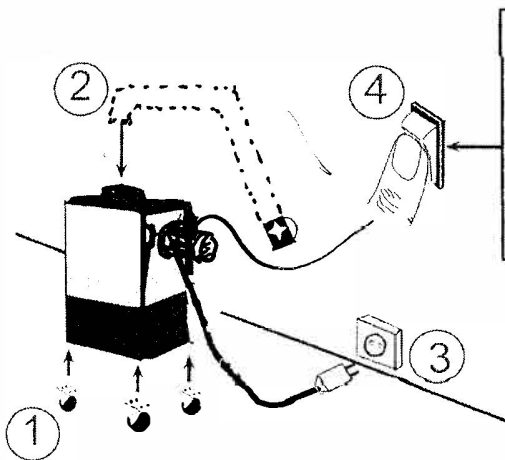
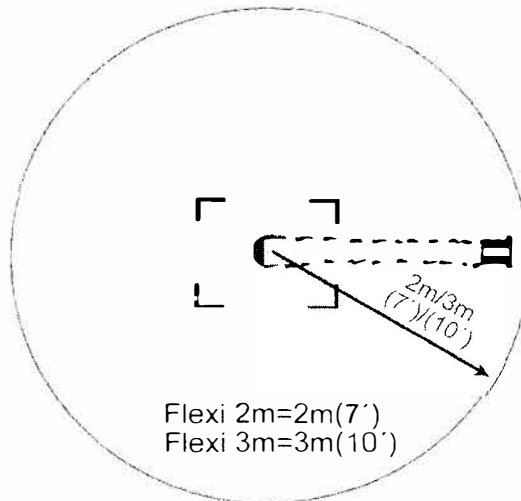
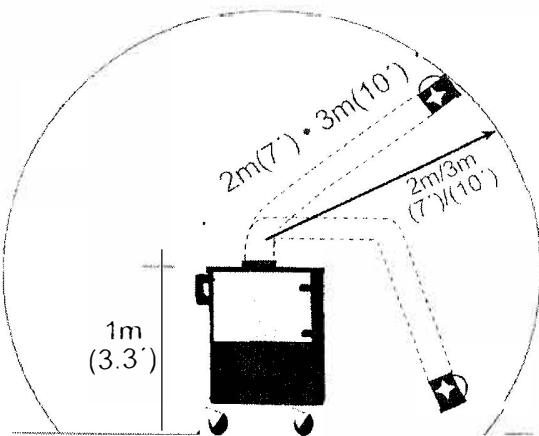
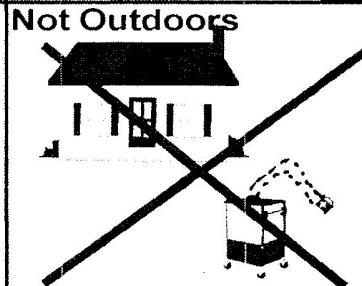
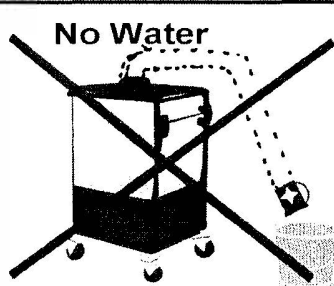
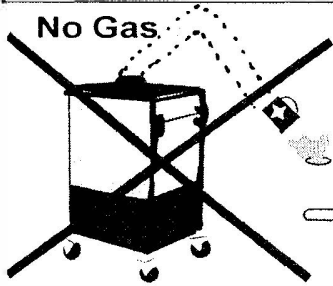
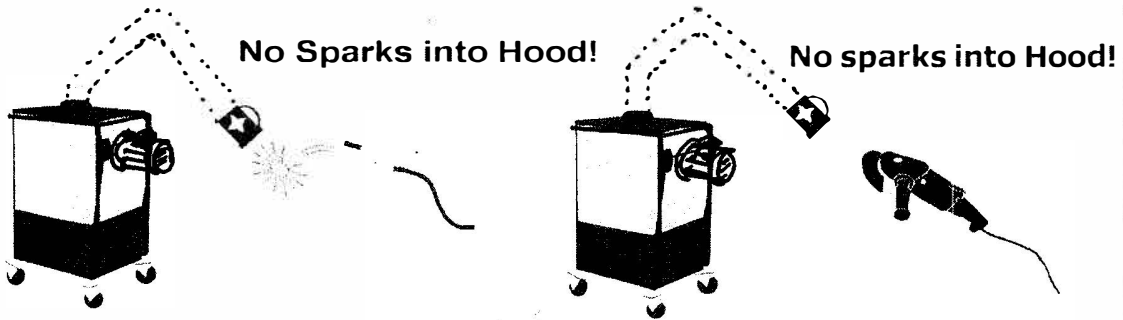
## Warning! Risk of personal Injury.

1. Do not use the filter for separation of dust that contains substances hazardous to one's health, e.g beryllium, cadmium, lead or asbestos.
2. Check that the mains connecting cable not is squeezed or in another way damaged. At cable replacement a Plymoth original spare part cable shall be used.

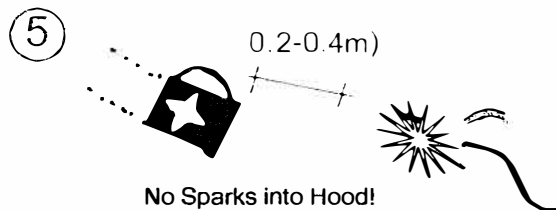
## Risk of fire and explosion

Do not use the filter for inflammable dust or explosive gases.

# MF-Eco HEPA H13/W3



- (GB) Circuit breaker with thermal overload
- (D) Geräteschutzschalter mit thermischem Überstromschutz
- (F) Disjoncteur pour équipement à surcharge thermique
- (E) Disyuntor por sobrecarga térmica
- (I) Interruttore termico di protezione dal sovraccarico
- (NL) Uitschakelaar met thermische beveiliging tegen overstroom
- (SF) Virtapiirikatkaisimien lämpöylkuormitus
- (S) Strömbrytare med termiskt överströmsskydd





**JET-Pulse Cleaning System**

The **Jet-Pulse cleaning** system is developed in the United states for cleaning of filter cartridges. It is better than ordinary "Back-Pulse" cleaning systems. The **Jet-Pulse cleaning** is faster and more efficient.

The heart of the **Jet-Pulse cleaning** system is a specially designed oscillating rubber nozzle. It is oscillating under 6 Bar compressed air pressure inside the filter cartridge. It is hammering the inside of the filter cartridge so that dust on the surface is falling off. At the same time it is blowing out the fine dust which has penetrated the surface of the filter cartridge. The result is a cartridge as clean as new.

**Explosion safety.**

To minimise the risk of explosions in a filter unit many countries have now laws saying you have to empty the dust bin after every cleaning. The Plymoth filter units with built in **Jet-Pulse Cleaning** systems have all a lightweight dustbin which is very handy and fast to empty after every cleaning process.

As an extra safety feature all Plymoth Filter units have the electrical parts outside the unit to avoid that electricity gets in contact with dust or gas.

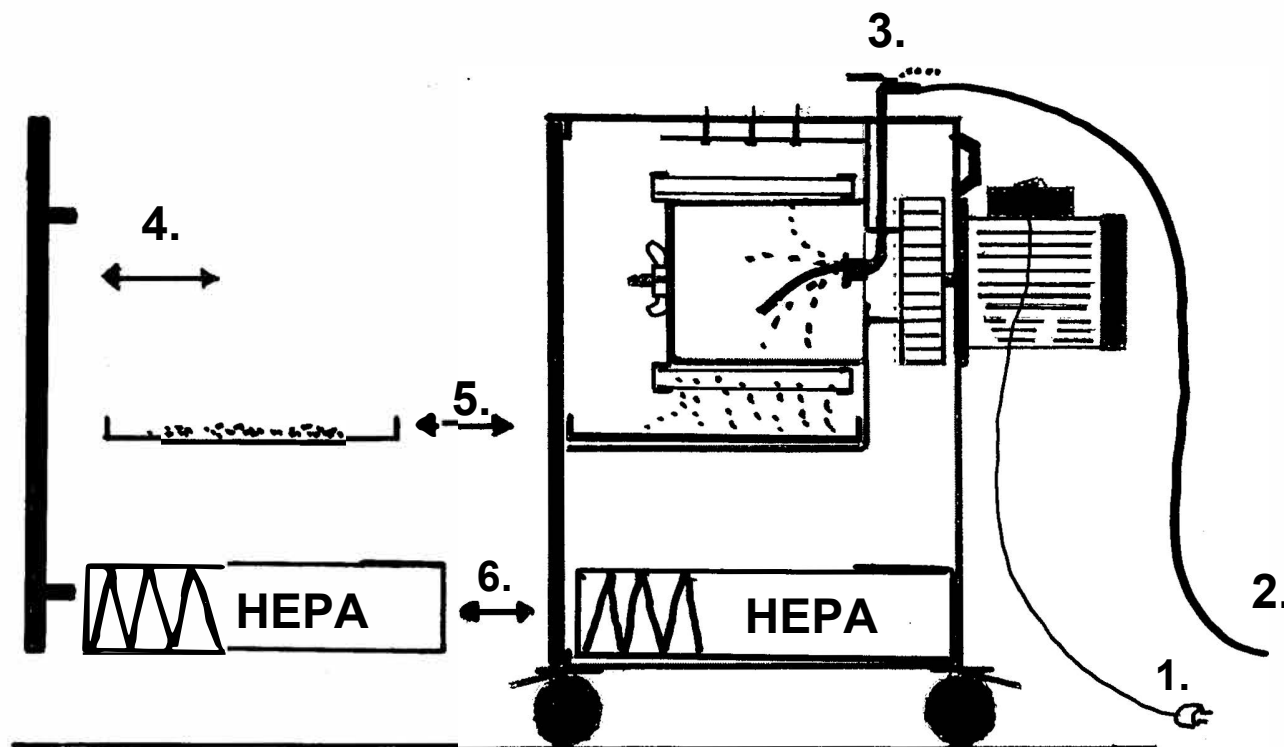
**State of the art Hood design.**

All Plymoth extractor arms are equipped with state of the art inlet hoods to optimize its ability to catch smoke and dust as far from the hood as possible.

**Field of Operation.**

The MF-Eco HEPA units are dust collectors for collecting dust, welding smoke and other dry pollutants.

## MF-Eco HEPA H13/W3 has Built in Compressed air Cleaning.



When the extraction is not good enough you clean the F9 Pre Filter-Cartridge with the built in compressed air cleaning system.

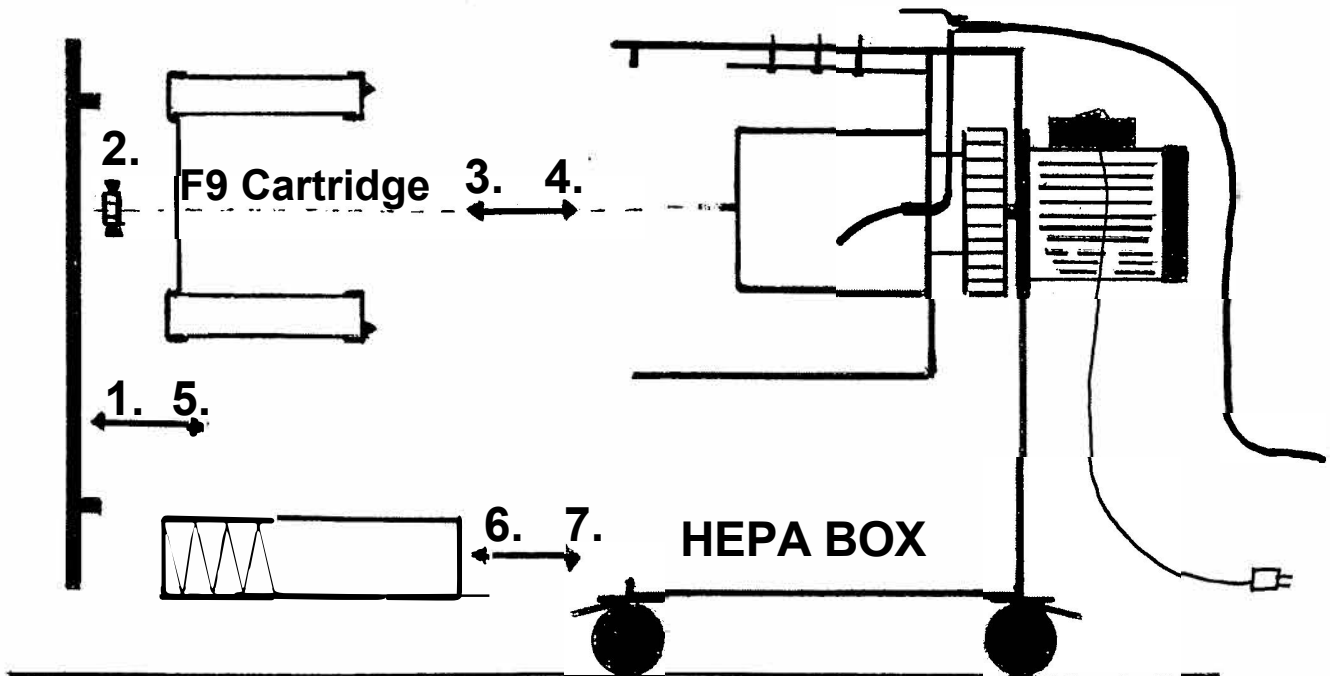
1. Take the electric plug out of the Power Supply!
2. Connect the hose to compressed air. 5-6 Bar. Not more not less.
3. Open the valve on top of the unit SLOWLY. When it is fully open count to 10 and close the valve quickly. Repeat 3 times with at least 30 seconds between.
4. Wait a couple of minutes and then open the door.
5. Pull out the tray with the dust. Empty it according to local regulations for the type of dust you have extracted.  
Put the dust tray back in place and mount the door.

The extraction power is now back to almost the same as for a new F9 Filter-Cartridge.

6. If the extraction after cleaning is not back to normal you have to replace the HEPA Filter Box also (P-544).

The F9 Prefilter-Cartridge can be cleaned 50-100 times depending of what the unit has been used for. It is important to check the pre-filter for cracks from time to time. If there is a crack the pre-filter cartridge has to be replaced immediately, otherwise the lifetime of the HEPA Filter will become reduced.

## MF-Eco HEPA H13/W3. Replacement of Filters.



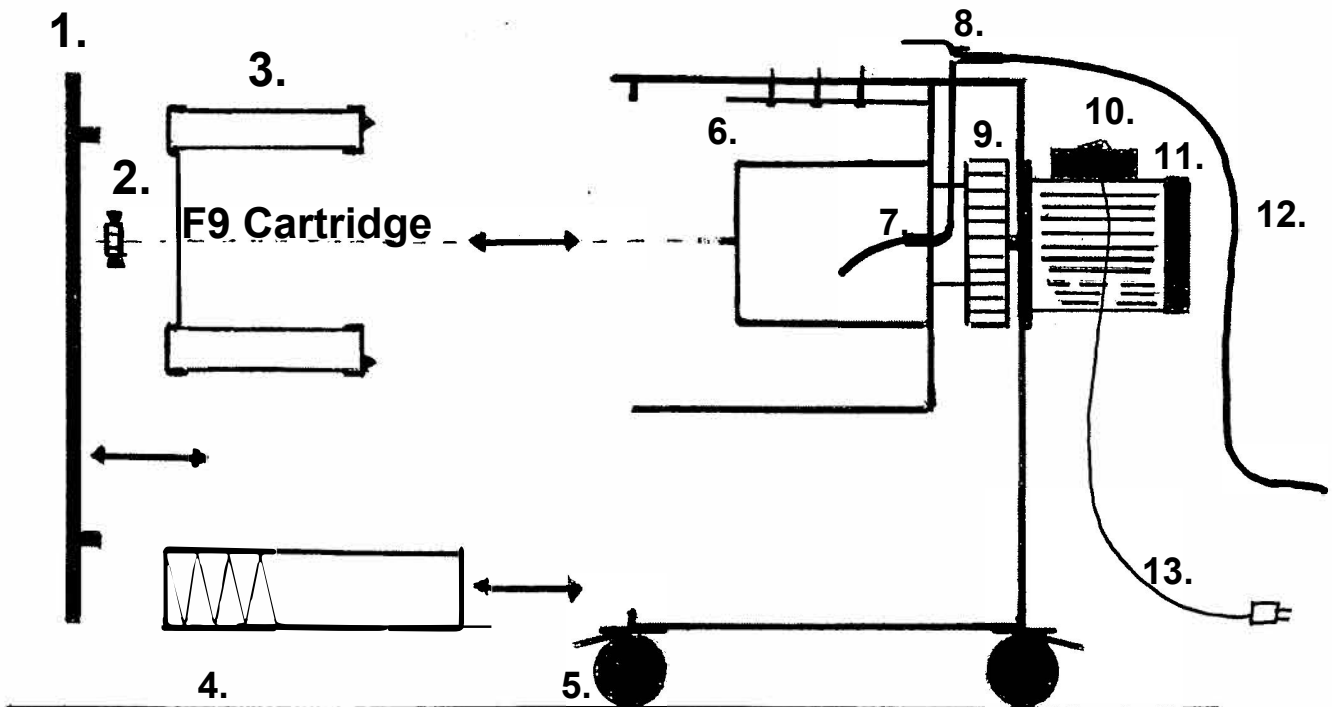
**When the Extraction is not good Enough after Cleaning.  
DISCONNECT THE PLUG FROM THE POWER SUPPLY!**

1. Take off the Door (1.).
2. Loosen Wing Nut (2.).
3. Pull out the F9 Filter Cartridge (3.).
4. Put in a Replacement F9 Filter Cartridge (4.).
5. Mount the Wing Nut (2.) and tighten it.
6. Mount the Door (5.).
7. Connect the plug to the power supply. The MF-Eco is ready for use again.
8. **IF THE EXTRACTION IS STILL NOT GOOD ENOUGH YOU HAVE TO REPLACE THE HEPA FILTER ALSO.**
9. **DISCONNECT THE PLUG FROM THE POWER SUPPLY!**
10. Take off the Door (1.).
11. Pull out the HEPA Filter Box (6.)
12. Put in a new HEPA Filter Box (7.) with the Seal Downwards!
13. Mount the Door (5.) and connect the Plug to the power supply.

**PLEASE NOTE THAT THE USED FILTERS HAVE TO BE TAKEN CARE OF ACCORDING TO LOCAL LAWS.**



# MF-Eco HEPA H13/W3. Spare Parts.



**Please specify Product Name, Sparepart No. and Name and Quantity when ordering Spare Parts.**

1. Door complete.
2. Wing Nut M10.
3. F9 Filter Cartridge P-541.
4. HEPA Filter Box P-544.
5. Pivoting Castor with Brake (one piece).
6. Spark Plate complete with Bolts.
7. Rubber Hose/Nozzle 2 parts.
8. Compressed Air Valve Complete.
9. Impeller.
10. Switch with Thermal overload.
11. Electric Motor 1.1kW/1-Phase/220V/50Hz.
12. Compressed Air Hose.
13. Electric Cable with Plug.

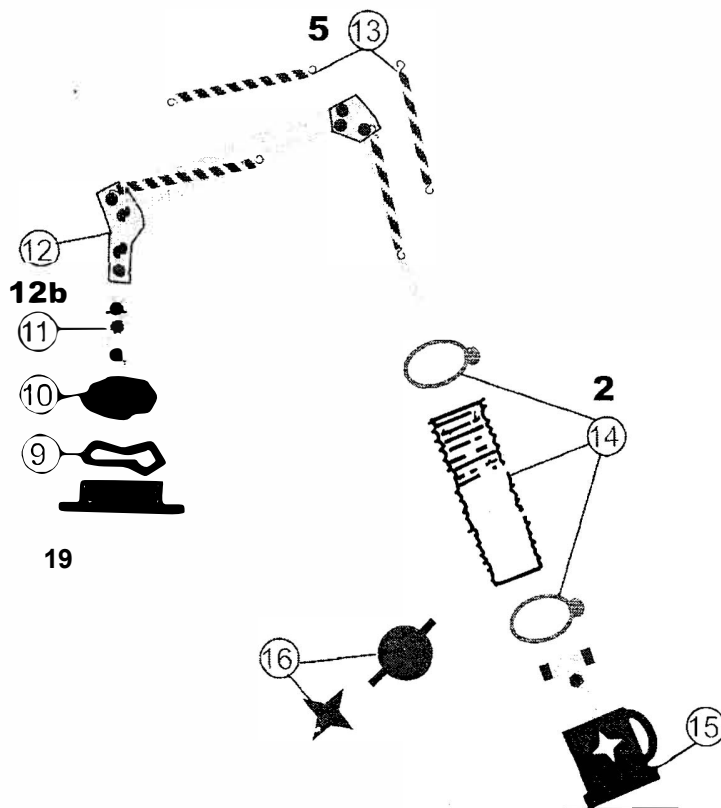
# Spare Parts: Flexi FLB Extraction-Arm 2m/3m

SPARE PARTS

ERSATZTEILE

PIÈCES DE RECHANGE

PIEZAS DE REPUESTO



## ENGLISH ORDER INSTRUCTION

When ordering spare parts always state:  
-Detail no. of the spare part and the name (as per list below).  
-Quantity of the parts required.

## DEUTCH BESTELLANLEITUNG

Bei der Bestellung von Ersatzteilen immer angeben:  
- Ersatzteilnummer und Beschreibung (s. Liste unten).  
- Anzahl erforderlicher Ersatzteile.

## FRANCAIS INSTRUCTIONS DE COMMANDE

Lors de la commande de pièces de rechange, toujours spécifier:  
- Numéro de détail et dénomination (voir liste).  
- Quantités des pièces requises.

## ESPAÑOL INSTRUCCIONES DE PEDIDO

Quando pida repuestos especifique siempre:  
- N° de pieza del repuesto (en la lista).  
- Cantidad de repuestos requeridos.

- 1.
- 2. Hose+Hose Clamps 2m Arm
- 5. Spring Set 2m Arm
- 9. Rubber collar
- 10. Hose ring
- 11. Shaft
- 12. Inside Arm 2m complete
- 12b Inside Arm 3m complete
- 13. Spring set 3m Arm
- 14. Hose+Clamps 3m Arm
- 15. Hood, complete
- 16. Damper set
- 19 Arm Holder**



### **Declaration of conformity**

We, J. Plymoth AB, declare under our sole responsibility that the product lines **MF-F9/HEPA, MF-Active Carbon, MF-HEPA/W3 18M2, MF-Eco/F9, MF-Eco/HEPA, MF-Filter-Tables, MF-Eco Filter-Tables, FK-Mesa Backdraft Filter-Tables, MKF Filter-Tables, Labbe, MF-Lab, MF-Eco Lab, CF Central Filters, Mobo-Oil, Denta-Flex, Fica-Flex and VBF-Office** to which this declaration relates is in conformity with Directives 2006/42/EC, 2014/30/EU, 2011/65/EU and Standards EN 60204-1:2006, EN ISO 12100:2010, EN ISO 15012-1:2013, EN 61000-6-2:2005, EN 61000-6-3:2007, EN ISO 20607:2019.

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Verkställande Direktör

2023-01-01