

# User Manual



## Laboratory

### **MFK Filter-Table/Low. F9 or HEPA H13 or Active Carbon.**

- **Downdraft Filter-Table for Sitting Work Position. "Plug and Play".**
- **Fume, Dust and Gases are extracted downwards instead of being inhaled.**
- **Models with F9 Filter Box (10m<sup>2</sup>) or HEPA H13 Filter Box (9m<sup>2</sup>) or Active Carbon Filter Cartridge (15Ltr.).**
- **Fits into standard 600mm Lay-Outs.**
- **Is equipped with 200mm high Side- and Back Panels with "Quick Release".**
- **Height adjustable 0.65-0.8m.**
- **Clean Air Outlet at the Bottom of the Unit.**

## 1.0 General Information.

A MFK Downdraft Filter-Table/Low is an easy and efficient way to create a work friendly booth with clean air.

The Low models are for a sitting work position. The table top of 4mm thick steel is 0.6m(W)x0.7m(D). Fits in standard Lay-Outs. The whole unit is powder coated in White.

The table top height can be adjusted from 0.65m-0.8m. It is equipped with 200mm high side and back shields. Always an ergonomical work position

The unit is simple to install. Just plug it into an electric socket. Ready for use!

The contaminated air is exhausted downwards and not inhaled. Then the cleaned air is returned to the room at the bottom of the unit.

MF Downdraft Filter-Tables can be used for all sort of work where extraction and filtration of fume, dust or gases is needed. Perfect for the Laboratory.

Depending on the contaminations you can choose a MFK with either F9, HEPA H13 or Active Carbon (15Ltr.). If you change the work situation you can always change to any of the other three Filter Types.

The F9 and HEPA H13 Filter boxes are both equipped with an Alu Mesh prefilter which is washable.

The Active Carbon Filter Cartridge is equipped with a prefilter of fleece.

The Door has 4 expander locks to make it easy to open and lock. 4 locks makes sure that the door is tight.

To replace a filter box/cartridge you just open the door and pull the filter out and replace it with a new.

### 1.1 Safety Note

**Always disconnect the electricity supply before opening the Filter-Table.**

**Don't exhaust Sparks or Poisonous Dust.**

**Use adequate safety clothing when replacing used filter boxes/cartridges.**

**Dispose of filter boxes/cartridges according to local laws and regulations.**

### 1.2 Range of Application.

The MFK Filter-Table is designed for being a work-table and work both with clean air. It is for indoor use. The F9 model has an filtration of 99% and the HEPA H13 of 99.95%. For the Active Carbon Model see "Applications MFK Active Carbon Filter-Table". The cleaned air can normally be recirculated into the room. Check with local laws and regulations.

## Applications: MF Active Carbon Filter Table.

### Vapour from solvents (VOC).

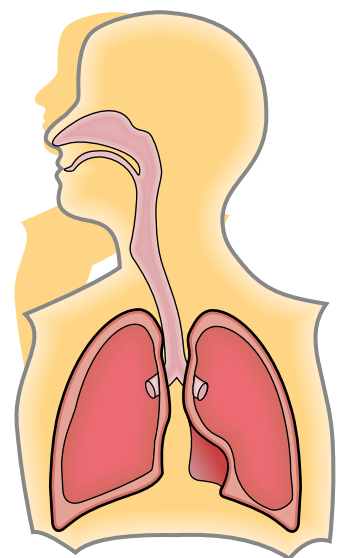
Nearly all solvents are Volatile Organic Compounds or liquids. They are used in a many every day applications, such as component cleaning, degreasing, and to dissolve products that are not able to be dissolved in water. They also form the drying agent in products such as adhesives, paints, and varnishes.

Vapours from these solvents typically have a narcotic effect that courses tiredness, dizziness and intoxication. Vapour and gases from solvents can also enter your body by the respiratory system and then spread to the brain and liver. The vapours from solvents are also irritating your eyes and respiratory system.

### Save your lungs!

By using a MF Active Carbon Filter Table you get an effective extraction solution combined with an efficient filter system, you can reduce or even eliminate the risk of working with airborne hazards.

Type of application	Hazard substances
Soldering (Electronic)	Resin, Lead, Terpene, Limonene, Borneol, Isosyanates
Solder Pot	Resin, Lead, Terpene
Gluing / Bonding	VOC1, Methylmetacrylate (MMA), Toluene, Ethyl-2-cyanoacrylate, Tetrahydrofuran, Cyklohexanone
Screen printing	Methyl ethyl ketone (MEK), Toluene
Cleaning / degreasing	Acetone, Toluene, MEK, VOCs1
Laser cutting	Dust, metal particulate, odour
Moulding	Epoxi, Styrene
Conservation	VOCs1
Precision TIG welding	Welding fume, Gases, Ozone
Stained Glass working	Lead fume, VOCs1
Botany research	VOCs1
Sculpturing	VOCs1, silica dust, sealants



# 1.3 Unit Description MFK Filter-Table for Laboratories.

**MFK Filter-Tables/Low with F9 or HEPA H13 or Active Carbon Filter. Sitting Work Position. Width 600 mm.**



### **Complete Workstation with Clean Air and Sitting Work Position.**

MFK Tables/Low are complete “Plug and Play” workstations for sitting work position. It will solve your “Health and Safety” problems. Just place it where it is needed and “Plug it in”. Dust, Fume or Gases will be extracted downwards and **will not be inhaled** by the operator. It will be cleaned by the built in Filter (F9 or HEPA H13 or Active Carbon) and be returned to the premises (Check with Authorities).

#### **MFK-F9 or MFK-HEPA H13.**

For normal dust of different sorts, the MFK-F9 with F9 Filter Box (10m2) is recommended. For fine or dangerous dust MFK-HEPA with HEPA H13 Filter-Box (9m2) is recommended.

#### **MFK-AC (Active Carbon).**

MFK-AC/Low is recommended for Gases and Odors from Cleaning/Degreasing, Conservation, Gluing/Bonding, Molding, Screen Printing etc. The MFK-AC/Low has a 15Ltr/7kg active carbon filter cartridge with a prefilter fleece.

#### **Adjustable Table Height.**

The MFK Filter-Table/Low is as standard equipped with height adjustable legs. The Table Height is adjustable from 0.65-0.8m. Always a Comfortable and Ergonomic work position. The MFK can be equipped with heavy duty castors (P-956).

#### **Side- and Back Shields.**

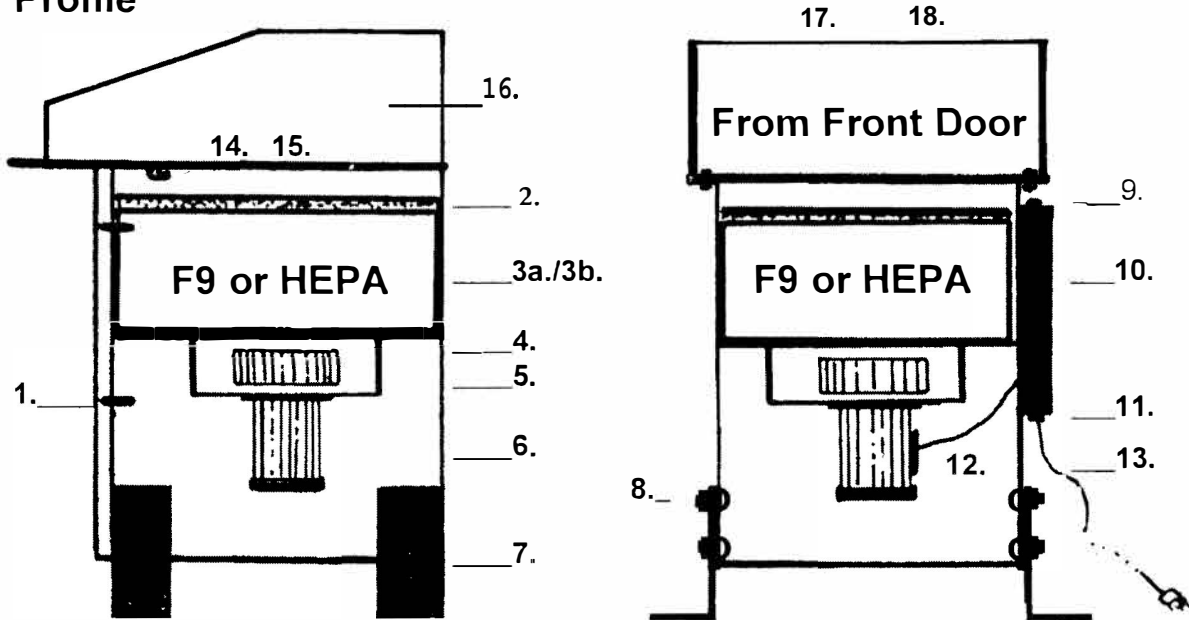
The MFK/Low is equipped with 200mm high Back and Side Shields. The Side Shields can be put up/down in seconds with the “Quick Release”.

**Art. No.**

<b>MFK-F9 Filter-Table/Low. 1-Ph./1.1Kw/220V/50Hz, F9 Filter Box (10m2). 0.6m(W)x0.7m(D)x4mm.</b>	<b>P-981</b>
<b>MFK-HEPA Filter-Table/Low. 1-Ph./1.1Kw/220V/50Hz, HEPA H13 Filter Box 9m2. ---“----.</b>	<b>P-982</b>
<b>MFK-AC Filter-Table/Low. 1-Ph./1.1kW/220V/50Hz, Active Carbon 15Ltr/7kg. ---“----.</b>	<b>P-983</b>
<b>Replacement F9 Filter Box 10m2 with Prefilter Fleece.</b>	<b>P-976</b>
<b>Replacement HEPA H13 Filter Box 9m2. For MF Models Low/High (Not for ECO Models)</b>	<b>P-967</b>
<b>Replacement Active Carbon Filter Cartridge 15Ltr/7kg.</b>	<b>P-961</b>
<b>Heavy Duty Castors with Brakes (125mm) 4pcs. Fit directly on MF Filter-Table or on the Legs.</b>	<b>P-956</b>

## Description: MFK Filter-Table/Low F9 or HEPA H13.

### Profile

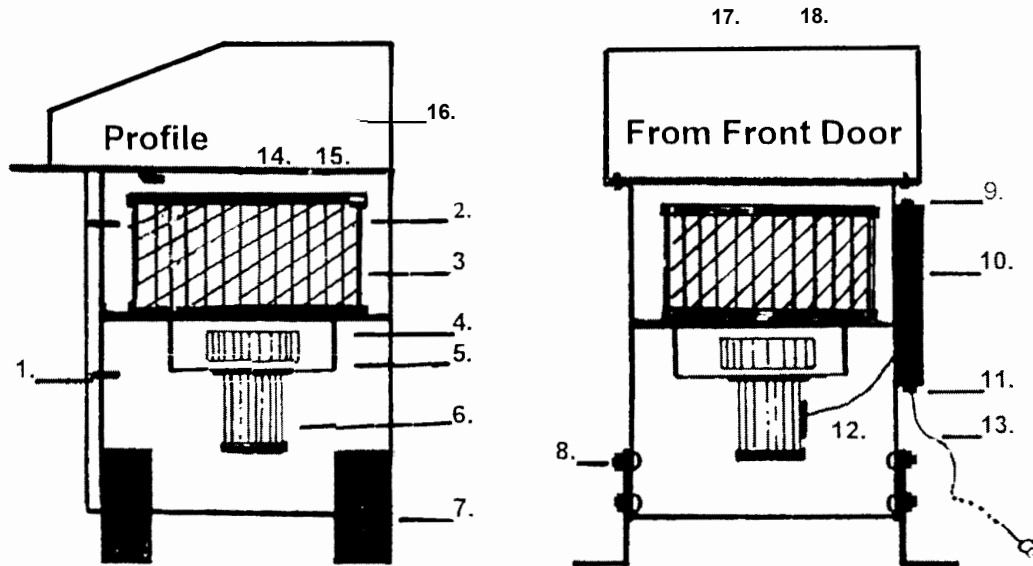


1. Door with 4xExenter Lock.
2. Pre-Filter of Alu Mesh. Washable.
3. 3a. F9(10m2) Filter Box. 3b. HEPA H13(9m2) Filter Box.
4. Fan Impellar.
5. Fan Housing.
6. Electric Motor.
7. Legs height adjustable 150mm.
8. Coach Bolts M8x16mm 16 pcs. with 16 M8 Locking Nuts for the Legs.

NOTE! Bolt Heads from the Inside!

9. Electric on/off Switch with Overload Protection.
10. Electric Box with 2xM8x35mm Bolts.
11. Cable Gland.
12. Motor Cable.
13. Cable with Plug.
14. Table Top 0.7m(D)x0.6m(W)x4mm with 6xM6x16mm Hex Socket Countersunk Bolts.
15. Accessory Table Top 0.7m(D)x0.9m(W)x4mm with 6xM6x16mm Hex Socket Countersunk Bolts.
16. Side Shields 200mm high.
17. Back Shield 200mm high and 600mm wide.
18. Accessory Back Shield 200mm high and 900mm wide.

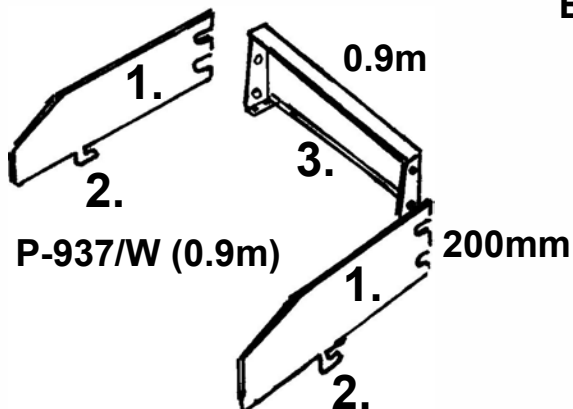
## Description: MFK Filter-Table/Low Active Carbon 15Ltr.



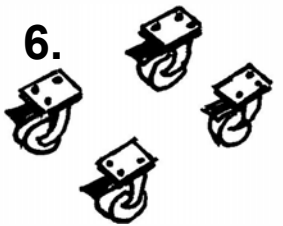
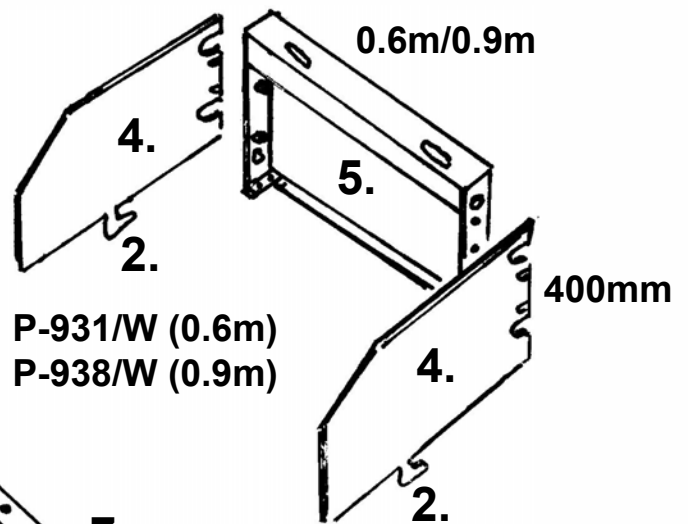
1. Door with 4xExenter Lock.
2. Pre-Filter of Fleece.
3. Active Carbon Filter Cartridge 15Ltr.
4. Fan Impellar.
5. Fan Housing.
6. Electric Motor 1-phase/1.1kW/220V/50Hz.
7. Legs height adjustable 150mm.
8. Coach Bolts M8x16mm 16 pcs. with 16 M8 Locking Nuts for the Legs. Important! Bolt Heads from the Inside!
9. Electric on/off Switch with Overload Protection.
10. Electric Box with 2xM8x35mm Bolts.
11. Cable Gland.
12. Motor Cable.
13. Cable with Plug.
14. Table Top 0.7m(D)x0.6m(W)x4mm with 6xM6x16mm Hex Socket Countersunk Bolts.
15. Table Top 0.7m(D)x0.9m(W)x4mm with 6xM6x16mm Hex Socket Countersunk Bolts. **Accessory.**
16. Side Shields 200mm high with "Quick Release".
17. Back Shield 200mm high and 600mm wide.
18. Back Shield 200mm high and 900mm wide. **Accessory.**

## Description: Accessories MFK Filter-Table.

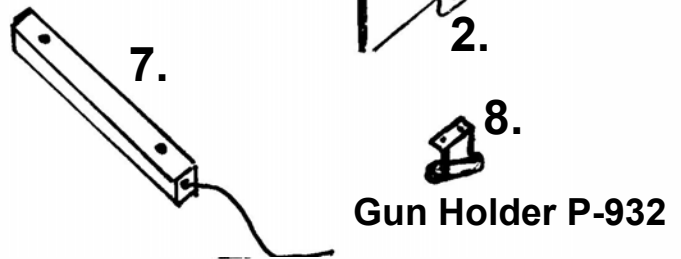
Back/Side Shields 200mm high (W=White).



Back/Side Shields 400mm high (White).



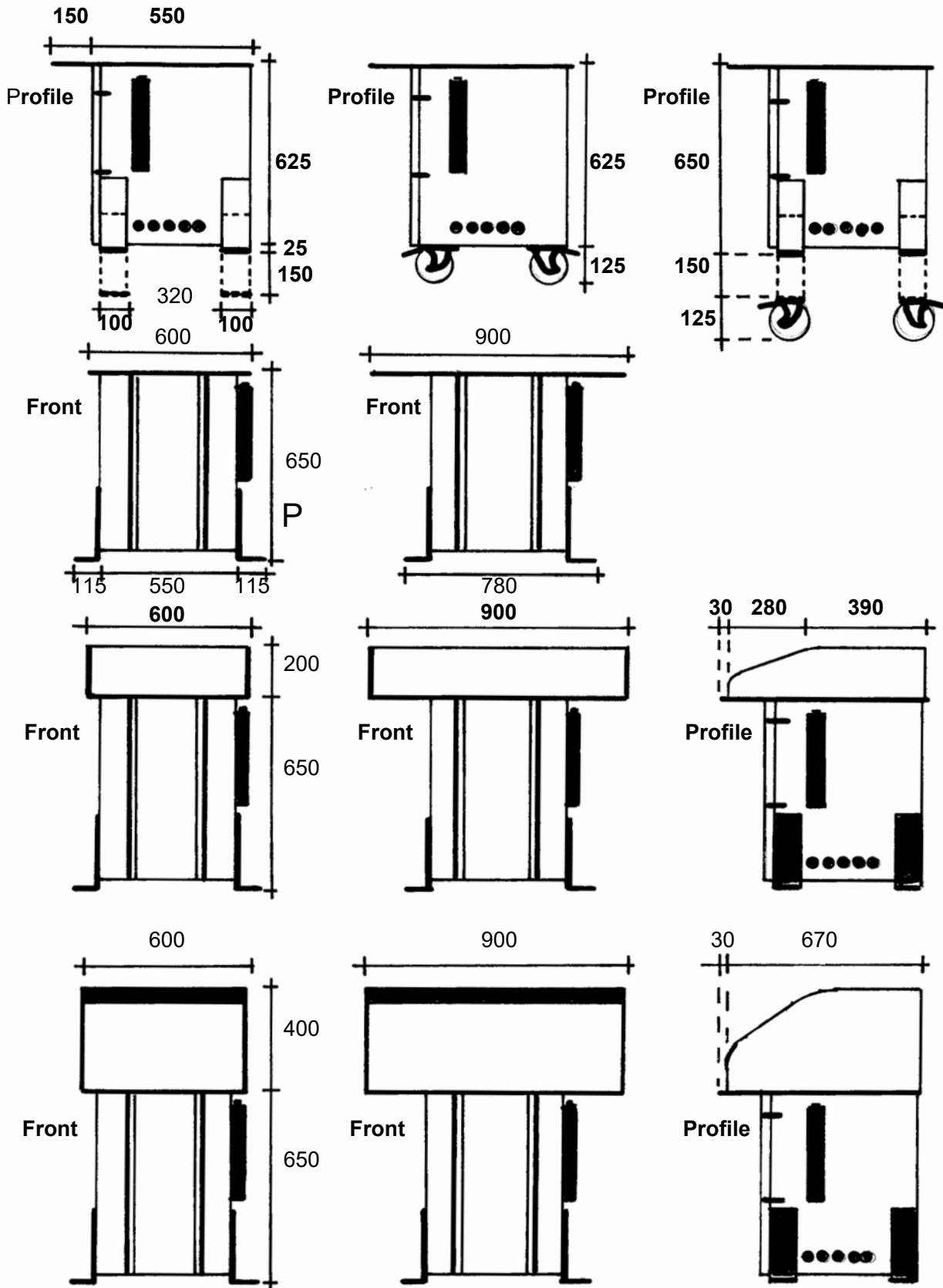
4xCastor P-956



Flouroscent Light.

1. Quick Release Side Shield/200mm high.
2. Quick Release Hook fits in Hole on Table Top.
3. Back Shield 0.9m wide/200mm high.
4. Quick Release Side Shield/400mm high.
5. 5a. Back Shield 0.6m wide/400mm high.  
5b. Back Shield 0.9m wide/400mm high.
6. Castors 125mm high with Brakes. 360 Degr. turning.
7. Flouroroscent Light for 400mm high Back Shield.
8. Holder for Compressed Air Gun etc.  
Can be mounted to the Right or to the Left.

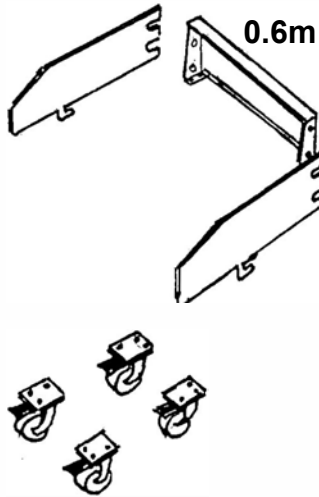
# 1.4 Measures (mm) MFK Filter-Table/Low. F9 or HEPA H13 or Active Carbon.





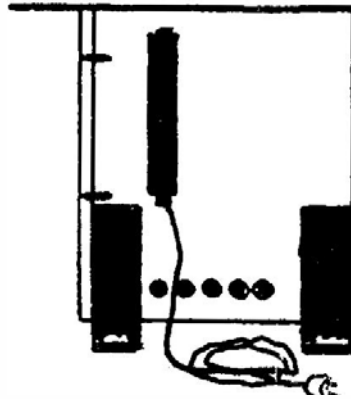
# 1.5 Mounting Instruction MFK Filter-Table/Low. F9 or HEPA or Active Carbon. W=White.

## Standard Delivery



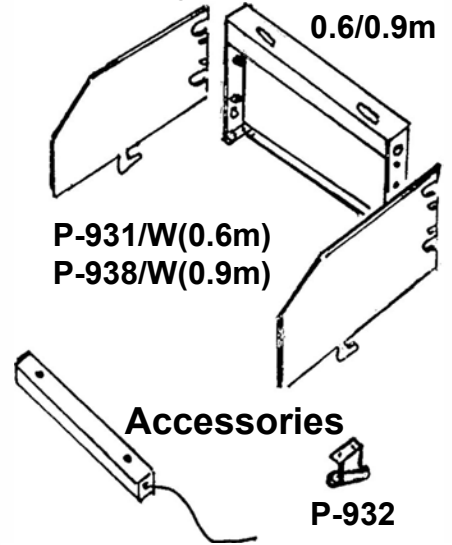
Accessory P-956

## Standard Delivery

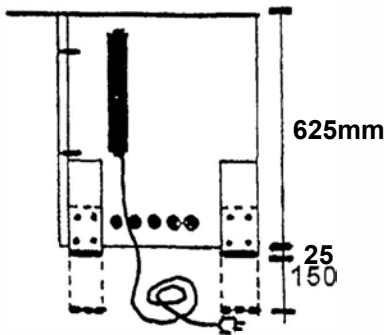


P-981 (F9) 0.6mx0.7m  
P-982 (HEPA) 0.6mx0.7m  
P-983 (Act. Carbon) 0.6X0.7m

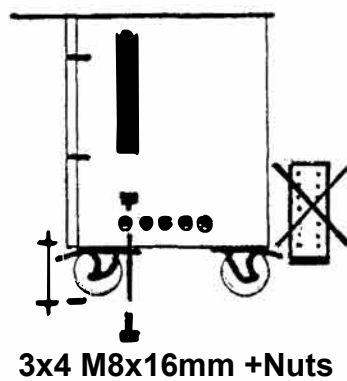
## Accessory



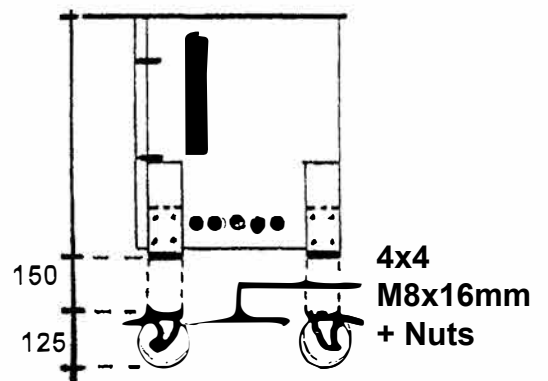
## Height adjustment



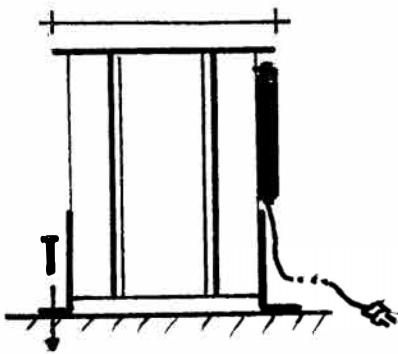
## Mounting of Castors



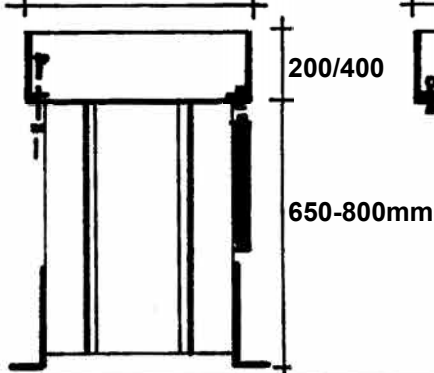
## Mounting of Castors on adjustable Legs



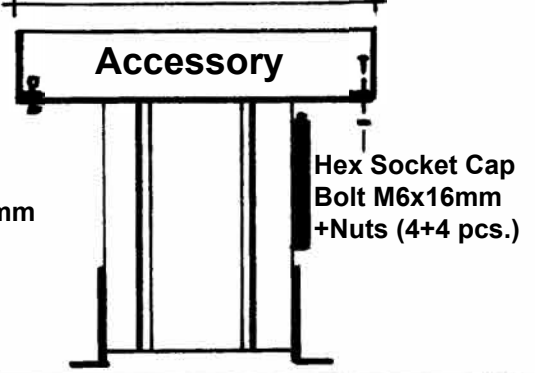
## Fix to Floor



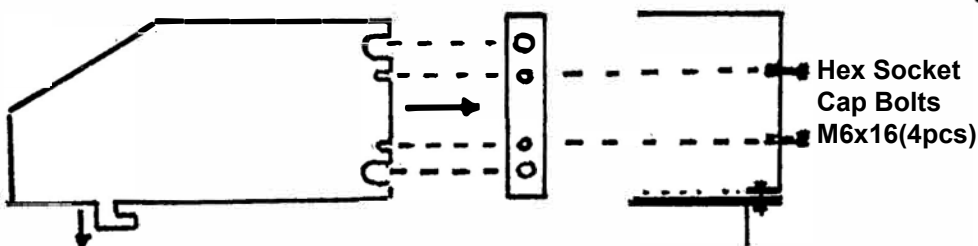
## Mounting of 0.6m Back Shield



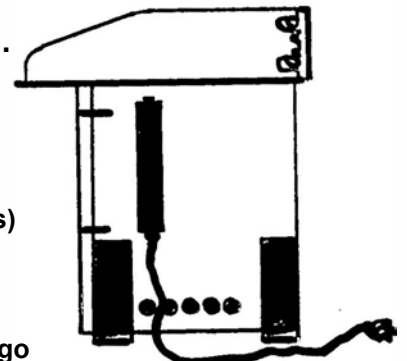
## Mounting of 0.9m Back Shield



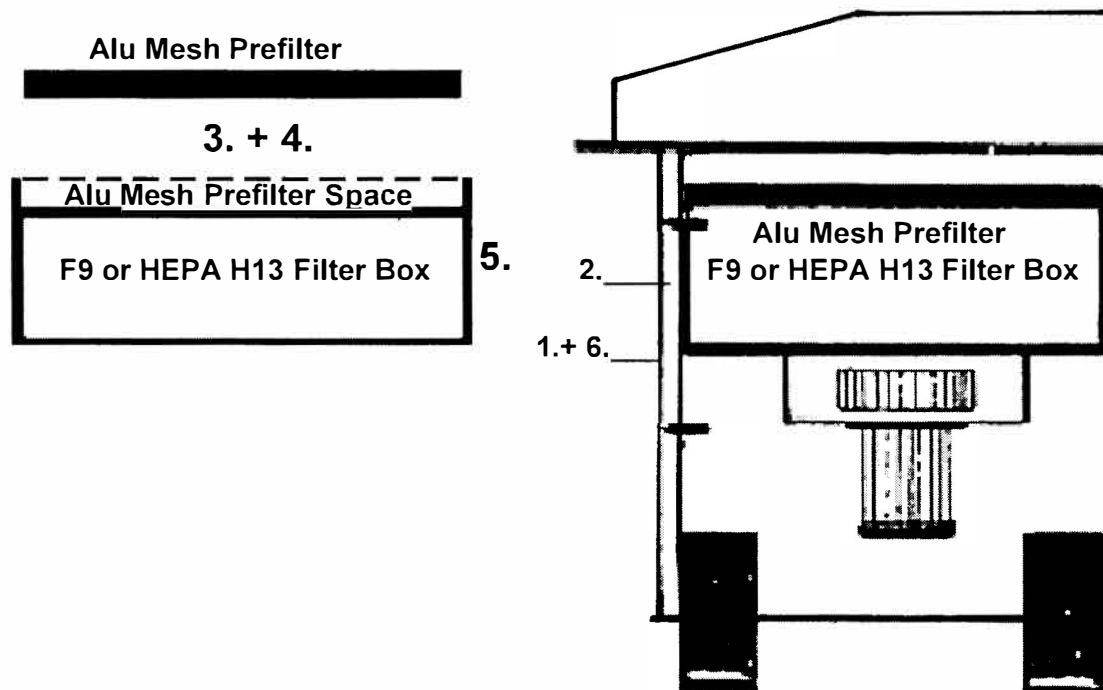
## Mounting of "Quick Release" Side Shields 200 or 400mm High.



Push the Shield until the small slots can slide over the Bolts. Let the Hook go down into the slot in the table. Push forward until stop. Tighten the Bolts light.



## 1.6.1 Change of Filter: MFK Filter-Table/Low. F9 or HEPA H13.

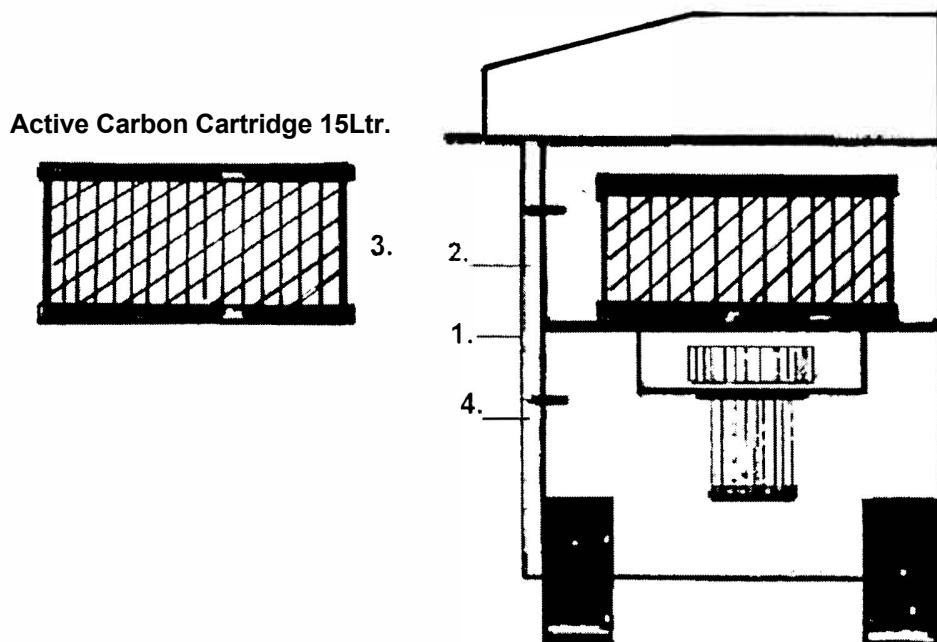


**Switch off the Fan and Use adequate safety Clothing.**

**Recommended Steps to Replace a Filter Box and the Alu Mesh Filter.**

1. Open the 4 Exenter Locks on the Door and lift it off.  
Place it in a safe Place.
2. Pull out the F9 Filter Box or the HEPA H13 Filter Box. They have both an Alu Mesh Filter inside of the Top.
3. Take out the Alu Mesh Filter and clean/wash it.
4. Place the cleaned/washed Alu Mesh Filter in the top of a Replacement F9 or HEPA H13 Filter Box. Be sure it is in the side **WITHOUT SEAL**.
5. Put the Filter Box with the Alu Mesh Filter back into the Filter-Table.  
Note that the **SEAL shall be DOWNWARDS!!**
6. Mount the Door and lock it with the 4 Exenter Locks.
7. The MF Filter-Table is now ready for use again.
8. Dispose of the old Filter Box according to Local Laws and Regulations.

## 1.6.2 Change of Filter: MFK Filter-Table/Low. Active Carbon 15Ltr.



**Switch off the Fan and Use adequate safety Clothing.**

**Recommended Steps to Replace an Active Carbon Filter Cartridge 15Ltr.**

1. Open the 4 Exenter Locks on the Door and lift it off.  
Place it in a safe Place.
2. Pull out the Cartridge.
3. Put in a replacemen Filter Cartridge with the SEAL DOWNWARDS!!  
Be sure it is centered around the inlet of the Fan.
4. Put back the Door and lock it with the 4 Exenter Locks.
5. The MF Filter-Table is now ready for use again.
6. Dispose of the old Filter Cartridge according to Local Laws and Regulations.

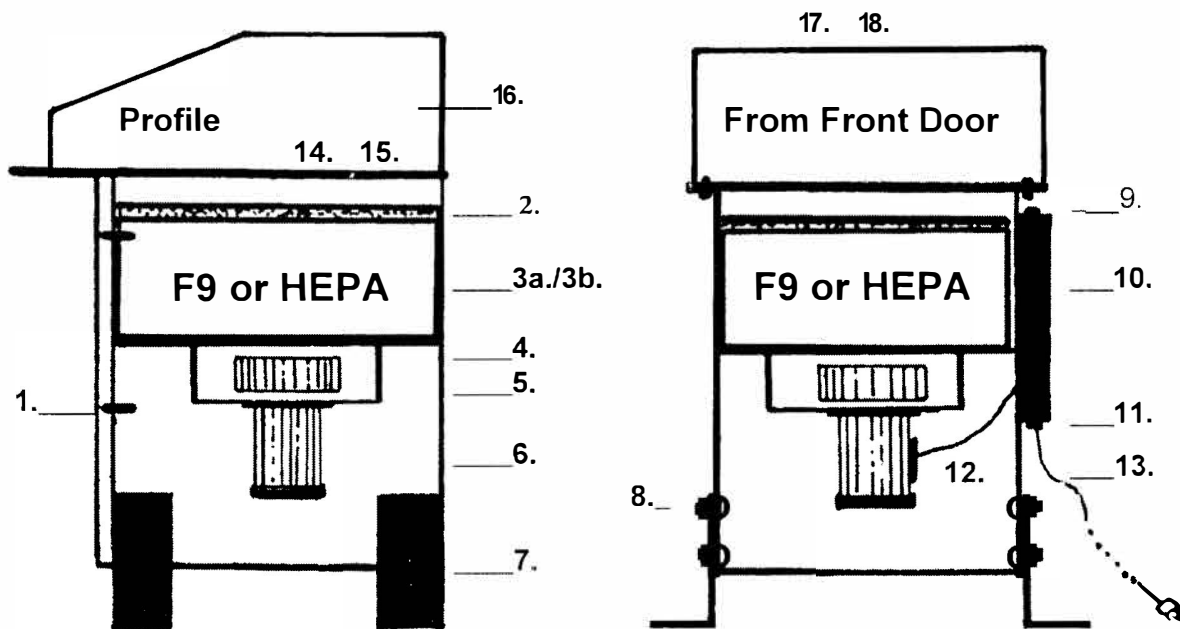
## **2.0 Maintenance**

### **2.1 General Information.**

The MFK Filter-Tables are robust and normally don't need much maintenance. However the following should be checked at least 2 times a year.

- 1. Check that all bolts are tight.**
- 2. Check if the extraction is good enough. If not:**
  - a. F9 and HEPA Model: Clean/wash the Alu Mesh Prefilter and replace the F9 or HEPA H13 Filter Box. See "1.6.1 Change of Filter F9 and HEPA".**
  - b. Active Carbon Model: Replace the Active Carbon Filter Cartridge. See "1.6.2 Change of Activ Carbon Cartridge".**
  - c. There is no Problem with changing from F9 to HEPA H13 Filter Box or vice versa or to Active Carbon Cartridge for different work situations.**
- 3. Check the Electric Cable. If there are damages on it you have to change it. Use Plymoth original spare parts. A certified Electrician has to do the change.**
- 4. Check with the Operator that the table height is right. If it is not, adjust the height of the Legs.**

## 2.2.1 Spare Parts: MFK Filter-Table/Low. F9 or HEPA.

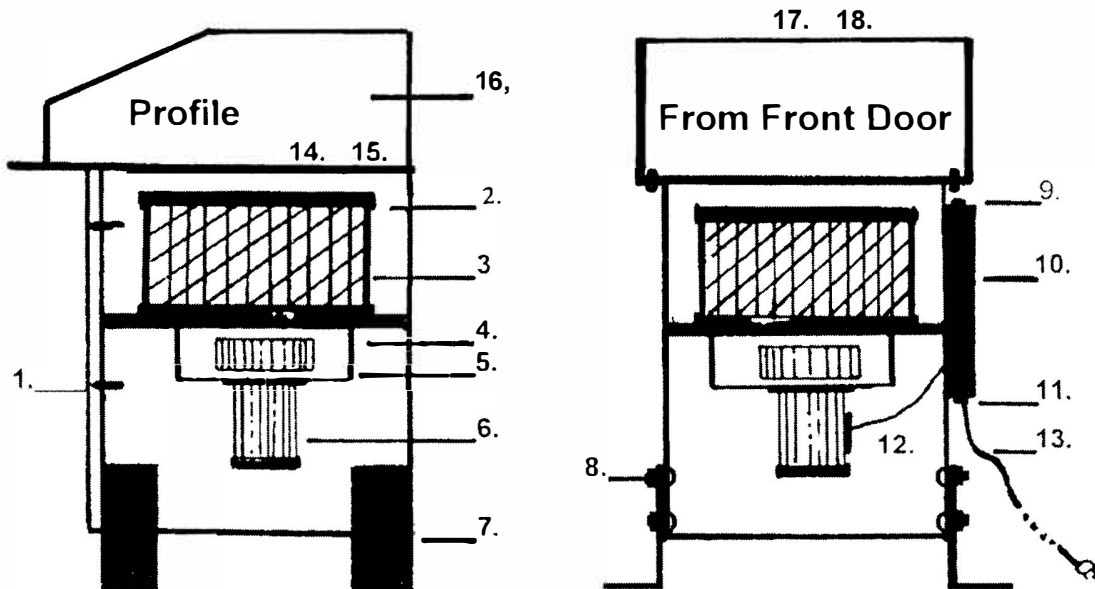


**When ordering Spare Parts please specify:**

- a. Name and P-number of Your Product.
- b. Number and Text from below.
- c. Quantity of each Spare Part.

1. Door with 4xExenter Lock, complete.
2. Pre-Filter of Alu Mesh. Washable.
3. 3a. F9(10m<sup>2</sup>) Filter Box.  
3b. HEPA H13(9m<sup>2</sup>) Filter Box.
4. Fan Impellar.
5. Fan Housing.
6. Electric Motor 1-phase/1.1kW/220V/50 Hz.
7. Legs height adjustable 150mm.
8. Coach Bolts M8x16mm 16 pcs with 16 pcs M8 Locking Nuts, for the Legs. **IMPORTANT!! Bolt Heads from the Inside!**
9. Electric on/off Switch with Overload Protection.
10. Electric Box with 2xM8x35mm Hex Socket Button Bolts.
11. Cable Gland for d. 20mm Hole.
12. Motor Cable from Motor to on/off Switch.
13. Cable with Plug.
14. Table Top White 0.7m(D)x0.6m(W)x4mm, with 6xM6x16mm Hex Socket Countersunk Bolts.
15. Table Top White 0.7m(D)x0.9m(W)x4mm, with 6xM6x16mm Hex Socket Countersunk Bolts.
16. Side Shield (1pc.) 200mm High (White).
17. Back Shield 200mm Highx600mm Wide (White).
18. Back Shield 200mm Highx900mm Wide (White).

## 2.2.2 Spare Parts: MFK Filter-Table/Low Active Carbon 15Ltr.



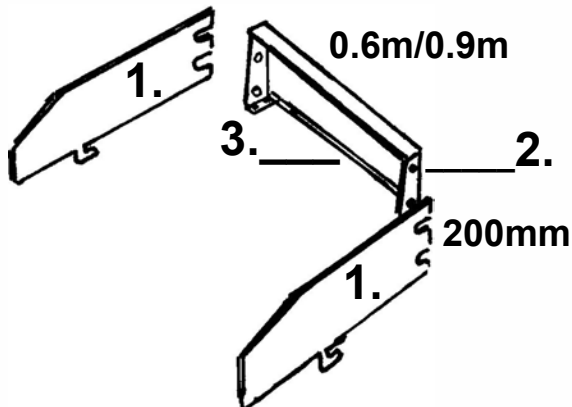
**When ordering Spare Parts please specify:**

- a. Name and P-number of Your Product.
- b. Number and Text from below.
- c. Quantity of each Spare Part.

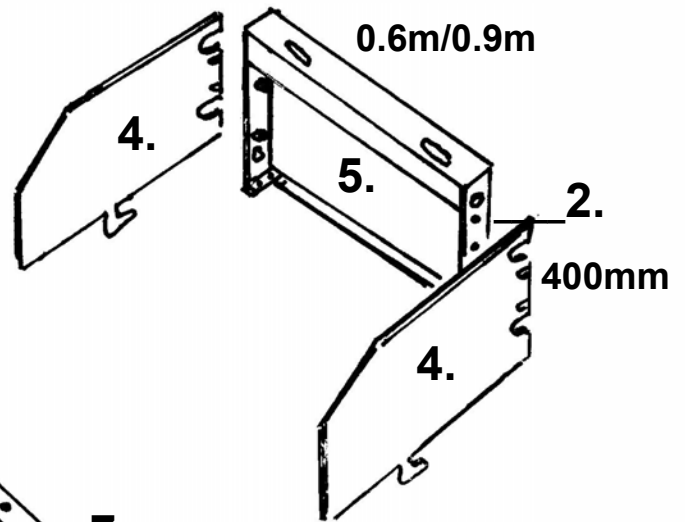
1. Door with 4xExenter Lock, complete.
2. Pre-Filter of Fleece.
3. Active Carbon 15Ltr. Filter Cartridge.
4. Fan Impellar.
5. Fan Housing.
6. Electric Motor 1-phase/1.1kW/220V/50 Hz.
7. Legs height adjustable 150mm.
8. Coach Bolts M8x16mm 16 pcs with 16 pcs M8 Locking Nuts for the Legs. **IMPORTANT!! Bolt Heads from the Inside!**
9. Electric on/off Switch with Overload Protection.
10. Electric Box with 2xM8x35mm Hex Socket Button Bolts.
11. Cable Gland for d. 20mm Hole.
12. Motor Cable from Motor to on/off Switch.
13. Cable with EU Plug.
14. Table Top White 0.7m(D)x0.6m(W)x4mm, with 6xM6x16mm Hex Socket Countersunk Bolts.
15. Table Top White 0.7m(D)x0.9m(W)x4mm, with 6xM6x16mm Hex Socket Countersunk Bolts.
16. Side Shield (1pc.) 200mm High (White).
17. Back Shield 200mm Highx600mm Wide (White).
18. Back Shield 200mm Highx900mm Wide (White).

## Spare Parts: Accessories MF Filter-Table Low/High.

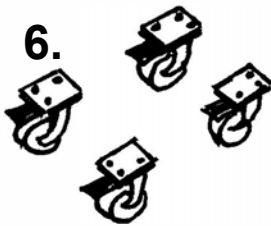
Back/Side Shields/200mm high.



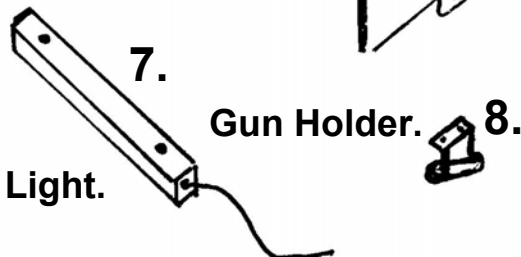
Back/Side Shields/400mm high.



Castors.



Flouroscent Light.



**When ordering Spare Parts please specify:**

- a. Name and P-number of Your Product.
- b. Number and Text from below.
- c. Quantity of each Spare Part.

1. Quick Release Side Shield/200mm high (1pc.).
2. Hex Socket Cap Bolts M6x16mm for Quick Release (4pcs.)
3. 3a. Back Shield 0.6m wide/200mm high with Hex Socket Cap Bolts 4xM6x16mm and Locking Nuts 4xM6.  
3b. Back Shield 0.9m wide/200mm high with Hex Socket Cap Bolts 4xM6x16mm and Locking Nuts 4xM6.
4. Quick Release Side Shield/400mm high (1pc.).
5. 5a. Back Shield 0.6m wide/400mm high with Hex Socket Cap Bolts 4xM6x16mm and Locking Nuts 4xM6 (1Pc.).  
5b. Back Shield 0.9m wide/400mm high with Hex Socket Cap Bolts 4xM6x16mm and Locking Nuts 4xM6 (1pc.).
6. Castor 125mm high with Brake. 360 Degree (1pc.).
7. Flouroscent Light for 400mm high Back Shield (1pc.)
8. Gun Holder + 2xM6 Hex Socket Countersunk Bolts (1pc.)



### Declaration of conformity

We, J. Plymoth AB, declare under our sole responsibility that the product lines **MF-F9/HEPA, MF-Active Carbon, 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.

J. Plymoth AB  
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Jenny Nilsson  
Verkställande Direktör

2023-01-01