

# Technical Data

## WF-ECO F9 Jet-Pulse Extractor Filter.

### Welding Fume and Dust.

WF-Eco F9 Jet-Pulse wall filter is an efficient and economical solution for light welding smoke and light dust extraction.

### Economical and Easy to Mount.

Just mount the WF-Eco F9 Jet-Pulse filter on the wall and attach it to electricity and compressed air. Mount an 1.5m, 2m or 3m Flexi FLT Extraction Arm directly on the bottom of the box and the equipment is ready for use.

### Stainless Steel Welding.

WF-Eco F9 Jet-Pulse can be equipped with a HEPA H13/W3 Filter on top of the filter unit, for light Stainless Steel welding. A HEPA FILTER ADAPTER is then needed. The HEPA Filter-Box has to be replaced when full. The F9 Filter works then like a Pre-Filter to increase the life time of the HEPA Filter. The prefilter can be cleaned 50-100 times with the built in compressed air cleaning system.

### Flexible and Strong

WF-Eco F9 Jet-Pulse is robustly built and with aluminium impeller. A 1.5m, 2m or 3m Flexi FLT Extraction-Arm can be mounted directly on the bottom side of the unit. Longer Extraction-Arms have to be mounted on the wall and then connected to the WF-Eco F9 inlet at the bottom. The Flexi arms are designed with the most modern parallelogram technology which makes them extremely flexible and position stable.

The WF-Eco can be equipped with a **Silencer** on top of the unit. It is not needed when the MF-Eco is equipped with a HEPA Filter Box.

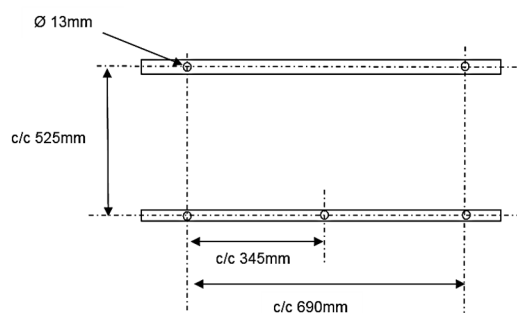
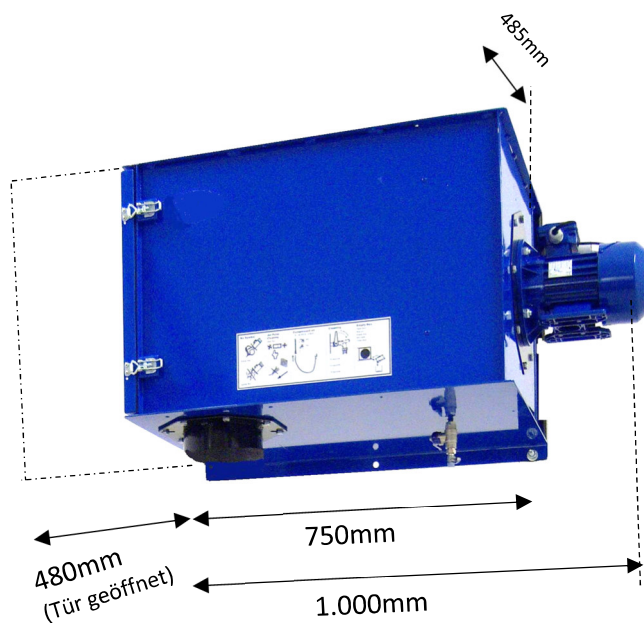


### Jet-Pulse Cleaning

WF-Eco F9 Jet-Pulse filter has a very efficient built-in compressed air cleaning system. In just a few minutes you clean the F9 Filter Cartridge. Then just open the door and empty the dust bin and it is ready for use again!

	Art. No.
WF-Eco F9 Jet Pulse Extractor Filter. ~1/1.1kW/220V/50Hz. Extraction Arm not included.	P-549
WF-Eco F9 Jet Pulse Extractor Filter ~3/1.1kW/400V/50Hz. Extraction Arm not included.	P-547
Flexi FLT Extraction Arm 1.5m with Turning Flange.	P-051
Flexi FLT Extraction Arm 2m with Turning Flange.	P-052
Flexi FLT Extraction Arm 3m with Turning Flange.	P-053
F9 Replacement Filter Cartridge 9m <sup>2</sup> .	P-541
Silencer for WF-ECO	P-552
HEPA Filter Adapter. Needed for mounting HEPA Filter on Top of WF-ECO.	P-553
HEPA H13/W3 Filter Box 23m <sup>2</sup>	P-554
Outlet Adapter Ø 250mm for WF-Eco (To send the cleaned air out of the building).	P-557

## WF-Eco F9 Jet Pulse Measures.



Technische Daten	
Spannung/Phasen	230 Volt / 1~
Leistung	0,75 kW
Stromaufnahme	5,15 A
Umdrehung	2.900 U/min
Frequenz	50Hz
Schutzart	IP 54
Gewicht	70 kg
ISO – Klasse	F
Filtereinsatz	1 Filterpatrone
Filterfläche der Filterpatrone	9m <sup>2</sup>
Abscheideleistung	>99 %
Schalldruckpegel (gemessen nach DIN 45635 T1)	ca. 70 dB(A)
Umgebungstemperatur	+5° C bis +35° C

## **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 almost as clean as new after just a few minutes.

### **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 the cleaning process.

As an extra safety feature all Plymoth Filter units with built in cleaning have the electrical parts outside the unit to avoid that electricity can get 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 WF-Eco F9 units are dust collectors for collecting dust, welding smoke and other dry pollutants.

### **Filter Cartridge Cleaning.**

The unit has a built in filter cleaning system, "**Jet Pulse**", which cleans the cartridge with compressed air. The particles fall down into a Tray which you empty after every cleaning.

### **HEPA Filter.**

WF-Eco F9 can be equipped with a HEPA H13/W3 Filter Box (P-554) on the top of the unit. A HEPA Filter Adopter is then needed. (P-553). When equipped with a HEPA H13/W3 Filter Box the unit can be used for Light Stainless Steel welding fume. The F9 Filter Cartridge, which can be cleaned 50-100 times, work then as an efficient Pre Filter, to increase the lifetime of the HEPA Filter. The HEPA Filter has to be replaced when it is full.

### **Compressed Air Supply for Jet-Pulse Filter Cleaning System.**

Constant 6 bar pressure is recommended. Not under 5.5 Bar and not over 6.5 Bar. The air supply shall maintain 800 l/m to operate the Jet Pulse cleaning system.

Reasonably clean and dry air is required. Oil and/or water will reduce lifetime of the filter.

A compressed air hose is included so it is just to connect the hose to the compressed air system when you need to clean the filter cartridge.

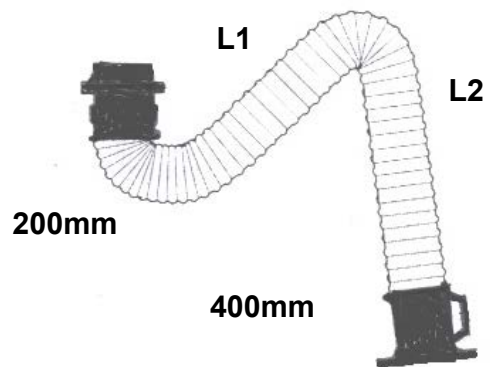
# Flexi FLT Measures.

## Wall-Filter Extraction-Arms.

Length 1.5m, 2m, 3m.

Dia. 160/200

Both diameters have the same length measures.



Arm	L1	L2	Weight	Max. Length
1,5 m	500 mm	400 mm	14 kg	1500 mm
2,0 m	800 mm	600 mm	15 kg	2000 mm
3,0 m	1400 mm	1200 mm	17 kg	3000 mm

## Flexi FLT General Information.

The Flexi FLT Extraction-arms (1.5-3m Models), for Ceiling mounting or for mounting at the bottom side of MF/MF-Eco filter units, are designed for extraction of dust, fume and gases. They have a swivel which allows the Arm to be rotated 360 degrees. The flame-proof flexible hose, with covered steespiral, has a parallelogram system inside to balance the hose and hood. This makes the Hood extremely easy to move to a new position and it will stay there.

The Flexi Steel Hood is black painted and can be turned 90 degrees in all directions. It can easily be positioned at any point within the working area. With it's rectangular form it has the ability to catch fume, dust and gases in the most efficient way.

The Flexi FLT Extraction-Arms (1.5-3m Models) shall be mounted directly to the prepared holes around the inlet on the bottom side of MF/MF-Eco filter units.

Longer Extraction-Arms have to be mounted on the wall and be connected to the WF/WF-Eco unit.

Max. temperature for the exhausted air is 70 degrees Celsius.



### **Declaration of conformity**

We, J. Plymoth AB, declare under our sole responsibility that the product lines **WF-Eco, 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 61000-6-2005, EN 61000-6-3:2007, EN ISO 20607:2019.

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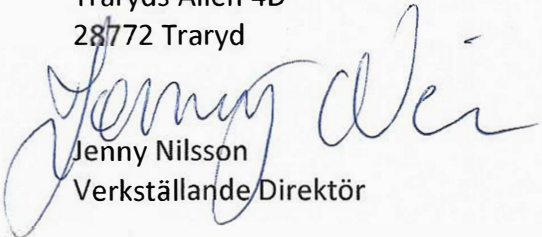
2023-01-01



### **Declaration of conformity**

We, J. Plymoth AB, declare under our sole responsibility that the product lines **Flexa, Chemikus, Flexi, Super-Max and Super-Vac** to which this declaration relates is in conformity with Directives 2006/42/EC and Standards EN ISO 12100:2010 and EN ISO20607;2019.

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