

Protect yourself and  
your environment  
Weller® Zero-Smog®  
Fume Extraction  
System



## Weller Info No. 17



90 min.



**It is important to protect yourself from harmful solder fumes with the best fume extraction system possible!! This is why you need a Weller® Zero-Smog® Fume Extraction System.**

Although the transition to lead-free soldering has removed lead from solder wire harmful fumes are still produced during the soldering process.

To highlight the importance of using a fume extraction system and the need for regular filter changes we carried out a simple test.

**Test Details:**

We performed a series of soldering operations using lead-free solder with a spot suction nozzle placed close to the solder joint. After 90 minutes of soldering a metal grid fitted inside the nozzle was completely clogged up.

Once a filter is supersaturated it is incapable of absorbing any more harmful substances and gases. This results in these unfiltered harmful gases and substances being released back into the air.

This test not only clearly shows the importance of using a fume extraction system it also shows the importance of regular filter inspection and replacement.

**Our recommendation for filter change:**

Check the pre-filter (fine dust filter) every 10 days and replace if badly contaminated.

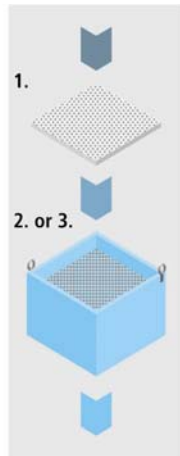
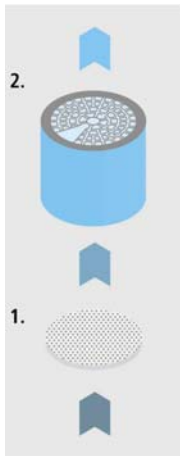
Replace the compact filter after the 6<sup>th</sup> to 8<sup>th</sup> pre-filter change.

Replace the gas filter every 6 month.

**Weller® Zero-Smog® Fume Extraction system – Install it and everyone will breathe a lot easier!**

**WFE / WFE P**

**WFE 20D / WFE 2S / 4S**



**1. Fine dust filter**

For standard applications with little flux up to pollution gases with high solids content. Weller offers the filter classes F5 and F7.

**2. Compact filter consisting of:  
HEPA filter**

Filters particles up to 0.3 µm. Weller offers HEPA (High Efficiency Particulate Air) filters of class H13, medium filtration efficiency 99.95%.

**Wide band gas filter**

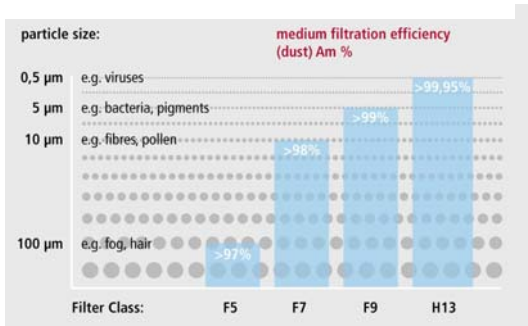
For cleaning harmful fumes and vapours. The Weller wide band gas filter consists of 50% active carbon and 50% Puratex. Harmful gases with a high molecular weight are cleaned by the active carbon. Puratex is suitable for absorbing gases of lower molecular weight. Because of its composition, Puratex is able to convert a large number of chemical pollutants by means of molecular modification into non-polluting gases.

**3. Gas filter (option)**

The gas filter is used for extracting adhesive fumes and solvents. Experience has shown that filtering suspended particles is not so vital in this respect. The gas filter is filled with 50% active carbon and 50% Puratex. The HEPA H13 is omitted.

**Spare Filter for Weller® Zero-Smog® Fume Extraction Units**

Particle size and filter type



WFE Unit	Spare filter		Order-no.
<b>WFE 4S + WFE 20D</b>	Fine dust filter (10 pcs.)	F5	005 87 358 37
	Fine dust filter (10 pcs.)	F7	005 87 358 36
	Compact filter	H13	005 87 358 38
	Gas filter		005 87 358 35
<b>WFE 2S</b>	Fine dust filter (10 pcs.)	F5	005 87 358 84
	Fine dust filter (10 pcs.)	F7	005 87 358 85
	Compact filter	H13	005 87 358 83
	Gas filter		005 87 358 95
<b>WFE 2ES</b>	Filterset		005 87 627 01
	Fine dust filter (10 pcs.)	F5	
	Compact filter	H12	
<b>WFE + WFE P</b>	Fine dust filter (3 pcs.)	F7	005 36 421 99
	Compact filter	H13	005 36 407 99
	Gas filter		005 36 410 99
	Compressed air cleaning filter		005 87 357 57

**Imprint**

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