



**C+F Kft.**

**Angyalföldön az Angyalföldi úton**

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## WFE 2S



Thank you for placing your trust in our company by purchasing the Weller WFE 2S volume fume extraction unit. Production was based on stringent quality requirements which guarantee the perfect operation of the device.



## 1. Caution!

Please read these Operating Instructions and the attached safety information carefully prior to initial operation. Failure to observe the safety regulations results in a risk to life and limb.

The manufacturer shall not be liable for damage resulting from misuse of the machine or unauthorised alterations.

The Weller WFE 2S volume fume extraction system extraction unit corresponds to the EC Declaration of Conformity in accordance with the basic safety requirements of Directives 89/336/EEC and 73/23EEC.

## 2. Description

The Weller WFE 2S is a volume fume extraction system ideally suited to a continuous industrial operation environment. (it is not suitable for use as a tipextraction system.) A powerful, maintenance free turbine combined with a digital electronic speed control system ensures ease of use and low maintenance costs. The digital electronic speed control system provides air movement which is continuously variable from 30 m<sup>3</sup>/h to 230 m<sup>3</sup>/h. Two DN 40 intake flanges are fitted to the top of the unit for connection to pipe work systems. The

WFE 2S is fitted with a three stage filter system, pre filter (F5), sub micron filter (H13) and wide band gas filter, specifically designed to deal with solder fumes. In its delivered state this filter system ensures a degree of separation of 99.95 % i.a.w to EN 1822 for a particle size of 0.12 µm. The differential pressure inside the unit is measured constantly and a red LED display is illuminated when the unit senses that a filter change is required. Under normal running conditions a green light is displayed. The

## 3. Commissioning

### Installation

Fit one or both DN 40 connection flanges (3) to the filter housing with 3 securing screws. If only one connecting flange is to be used then the other vacuum connection must remain blanked. The connecting flanges can be connected either directly to a DN 40 pipe system or via a flexible pipe to the fume collection device. Ensure that the exhaust air (1) from the WFE 2S is not obstructed.

### Electrical connection

The supply voltage must be checked against the machine name plate details prior to switch on. If correct then connect the WFE 2S to the mains and switch on at the machine main switch (5). A illuminated green LED (12) will indicate that the machine is running. The desired speed can then be set by adjustment of the speed setting potentiometer.

### Filter checks

The filter status display warns when a filter check is required. When the red LED (11) illuminates, switch off the machine and lift off the top housing (2). Remove the pre filter mat (13) and replace with a new one. Reassemble the machine and switch on. If the red LED (11) goes out then that is all that is required. If the red LED remains on, then repeat the procedure, this time replacing the combined filter (14). Follow the instructions in the maintenance info on page 19. Reassemble the machine and switch back on.

Note: The pre filter mat (13) will need to be replaced more frequently than the combined filter.

### Remote control

The full range of WFE 2S functions can be remotely controlled from a PC by way of the integral RS232 interface (10). In addition to the manual functions available from the machine, a speed limiting function can be selected in the remote mode so that if both extraction ports (3) are closed the machine speed reduces to 20 % of

#### Technical data

Dimensions L x W x H:

320 mm x 320 mm x 395 mm

Weight:

19 Kg

Voltage:

230V/50Hz

Electrical power rating:

275 VA

Maximum vacuum:

2,700 Pa

Maximum quantity supplied:

230 m<sup>3</sup>/h

Pre filter: Stage 1

pre filter mat class F5

Combined filter: Stage 2; 3

Combined H13 high efficiency submicron filter (99.95 % particle separation upto 0.12 µm) and wide band gas filter (50 % activated carbon, 50 % Puratex)

## Decommissioning

### Attention!

A high concentration of pollutants will result in the active carbon heating up. The equipment should be run for several minutes in a pollutant free state before being switched off in order to prevent unwanted heating up.

## 5. Maintenance and information

Different fluxes and flux constituents and the amount and size of dust particles in the extracted air will significantly effect the filters working life.

Submicron particles in the extracted air increase when soldering or welding to varnish insulated wire. When working with varnished wire replace standard pre filter F5 with filter

## 4. Breakdown assistance

Malfunction	Cause	Solution
Extraction pipe power missing	Pipe system is dirty Turbine speed too low	Reseal the leaking Filter Change the filter Increase the
Loud extraction noises (reduced)	Air speed through extraction arm is too	Reduce the air speed
WFE2S is not running	Thermally switched to cool down	Leave the off Switch on again after approx.
Filter display is not working filter	Minimum pressure hose was not replaced after the	Reconnect the hose to the
Sub-micron filter particle becoming	Pre-filter has not Fit an F7 filter dirty to	Use a pre-been used quickly Use a preliminary separator if the proportion of solid matter

F7 (advise part no.)

When working with adhesives, a wide band gas filter without sub micron filter should be used.

### Filter change

Remove the plug from the mains socket, release the tension buckles (4) and separate the filter housing (2) and the turbine housing (8). Unplug the minimum pressure hose and release the filter latches, the compact filter can now be removed.

Reverse this procedure to refit the filter.

### Attention!

The minimum pressure hose must be reconnected correctly and the holding latches must be turned downwards when replacing the filter.

Contaminated filters must be treated as special waste.

## 6. Replacement parts

See Exploded page 58 for replacement parts for standard installations

Fine dust filter F7

Wide band gas filter without sub micron filter

## 7. Accessories

Preliminary separator 0058735862

Pipe system DN 40

Pipe system DN 70

## 8. Scope of shipment

WFE 2S incl. filter

Connecting cable

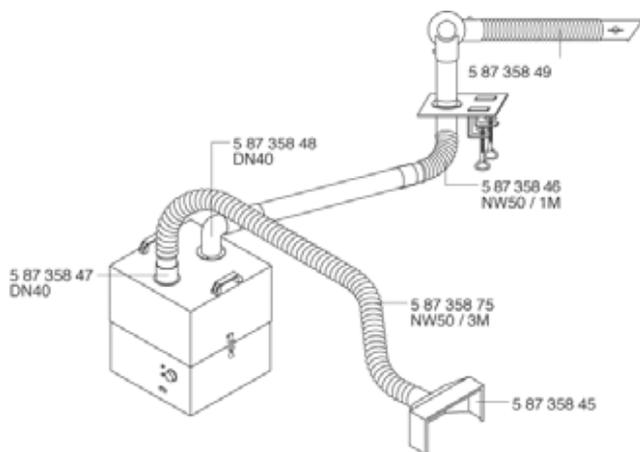
Operating manual

Safety information

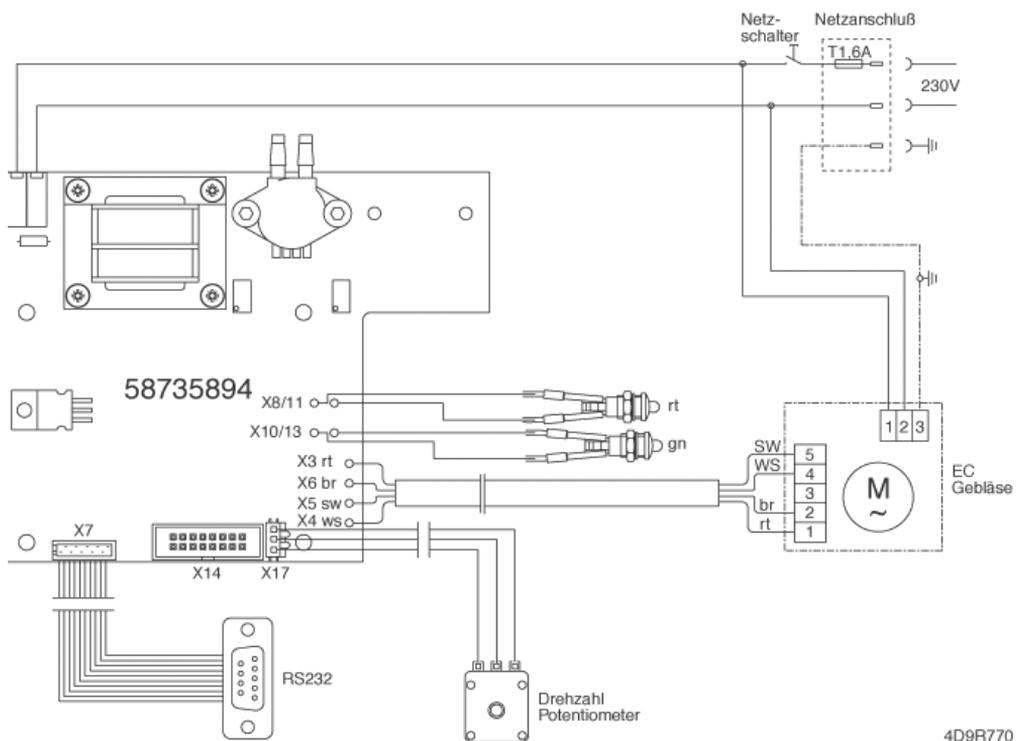
Diagram Illustration page 57

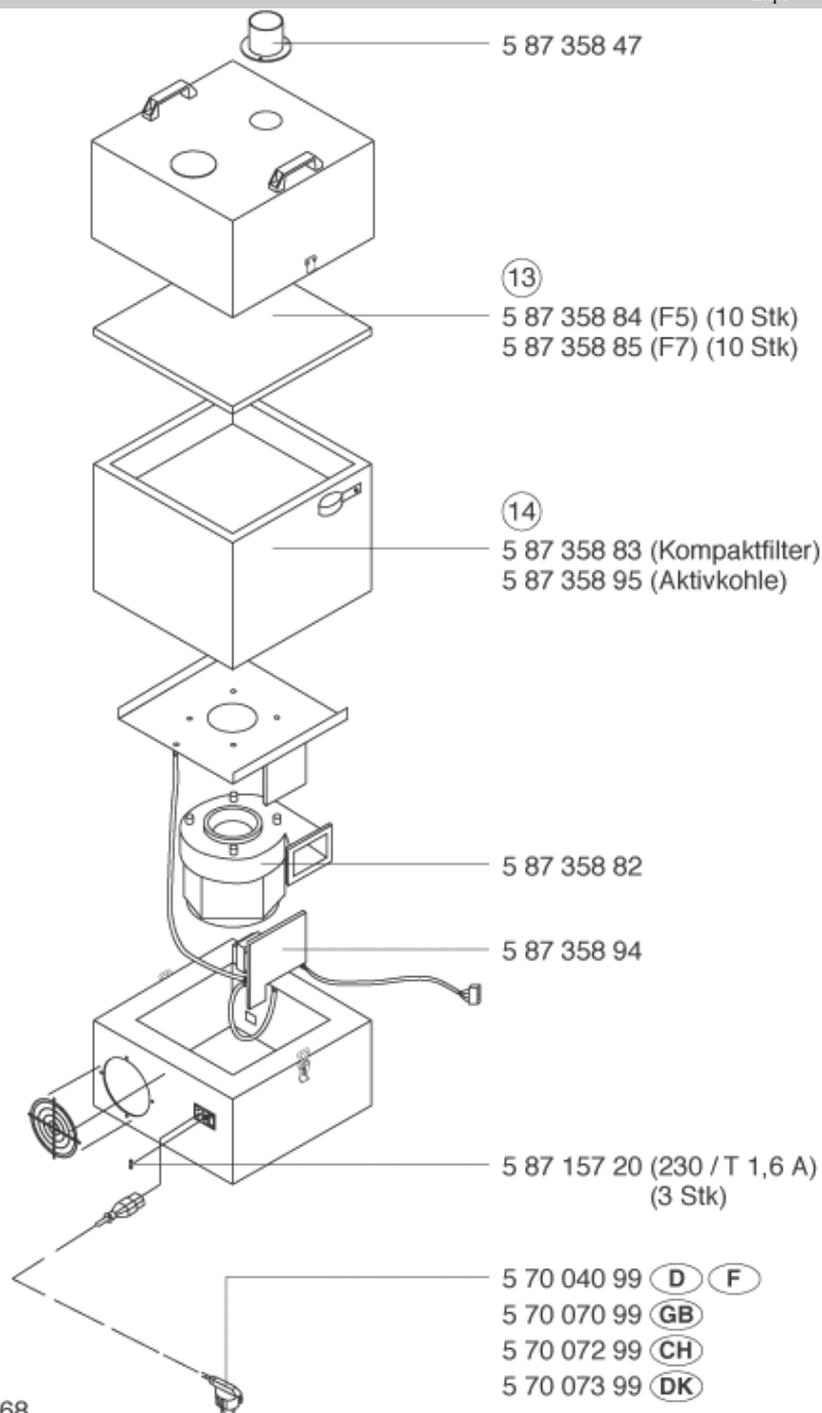
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Subject to technical alterations and amendments!



- D** Zubehör
- F** Accessoir
- NL** es
- I** Toebehoor
- GB** Accessori
- S** Accessori
- E** es Tillbehör
- DK** Accessorios
- P** Telbehør
- FIN** Accessórios
- GR** ἄρθρα
- TR** Aksesu
- CZ** Příslušenst
- PL** Wyposaenie
- H** Tartozékok
- SK** Príslušenstvo
- SLO** Pripor
- EST** Lisavarustus
- LT** Priedai
- LV** Piederumi, komplektsija





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