



# WELDING/FUME EXTRACTOR

MODEL NO: **SWFE01**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instruction manual



Keep dry



Wear protective clothing

## 1. SAFETY

### 1.1. ELECTRICAL SAFETY

- WARNING!** It is the user's responsibility to check the following:
- ✓ Check all electrical equipment and appliances to ensure that they are safe before using.
- ✓ Inspect power supply leads, plugs and all electrical connections for wear and damage.
- ✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- ✗ **DO NOT** use worn or damaged cables, plugs or connectors.
- ✓ Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.
- ✓ If the cable or plug is damaged during use, switch off the electricity supply and remove from use.
- ✓ Ensure that repairs are carried out by a qualified electrician.
- ✓ Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.  
Important: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.
- ✗ **DO NOT** pull or carry the appliance by the power cable.
- ✗ **DO NOT** pull the plug from the socket by the cable.

### 1.2. GENERAL SAFETY

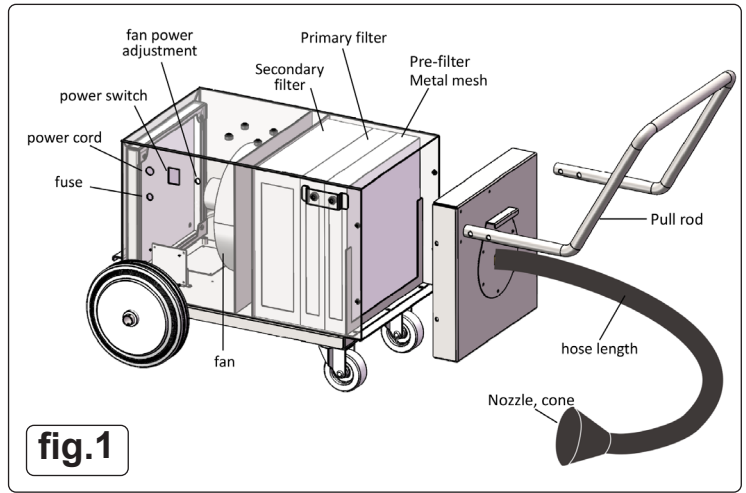
- CAUTION:** Read the instruction manual before using the machine.
- WARNING!** Operators shall be adequately instructed on the use of these machines.
- WARNING!** This machine is for dry use only.  
**CAUTION:** This machine is for indoor use only.  
**CAUTION:** This machine shall be stored indoors only.
- ✓ This machine is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge.
- ✓ This machine is intended for commercial use, for example in hotels, schools, hospital, factories, shops, offices, and rental business.
- ✓ The appliance shall be disconnected from its power source during service and when replacing parts and, if that the removal of the plug is foreseen, it shall be clearly indicated that the removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed.
- ✓ Any additional hoses or ducts can add pressure drop and shall be considered by the installation designer or the user.
- WARNING!** Disconnect the extractor from the mains power and ensure the impeller is at a complete standstill before attempting to change accessories, service or perform any maintenance.
- ✓ Maintain the extractor in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use recommended parts only. Non-authorized parts may be dangerous and will invalidate the warranty.
- ✓ Locate the extractor in a suitable working area. Ensure the surface is flat and firm. Keep area clean and tidy and free from unrelated materials, and ensure there is adequate lighting.
- ✓ Keep the extractor clean for best and safest performance and check moving parts alignment regularly.
- ✓ Remove any tools from the extractor and the vicinity before turning it on.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.
- ✓ Keep children and unauthorised persons away from the working area.
- ✗ **DO NOT** use the extractor for any purpose other than that for which it is designed. **DO NOT** pick up glass, metal or water.
- ✗ **DO NOT** allow untrained persons to operate the extractor.
- ✗ **DO NOT** get the unit wet or use in damp or wet locations or areas where there is condensation.
- WARNING! DO NOT** use extractor where there are flammable liquids, solids or gases such as petrol, paint solvents, waste rags etc.
- ✗ **DO NOT** operate the extractor if any parts are missing or damaged as this may cause failure and/or personal injury.
- ✗ **DO NOT** operate the extractor when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ When not in use switch the extractor off and isolate from the power supply. Extractor must be stored in a location that restricts its use to skilled or instructed persons only.

## 2. INTRODUCTION

Adjustable 1.5m extraction hose can be altered easily and hold its own position. 3 Stage filtering process up to 95% effective removing toxic fumes from the working environment. Mobile and convenient to move around the workshop and garage. Adjustable Fan speed making it suitable for wide range of welding, cutting and soldering tasks. Max flow rate: 750mtr<sup>3</sup>/hr.

### 3. SPECIFICATION

Model No: .....SWFE01  
 Dimensions (excluding suction arm): .....560 x 430 x 430mm  
 Fan Type: ..... Radial  
 Motor Type: ..... Brushless DC  
 Type of distribution system: ..... TN  
 Filter Medium: ..... Metal Mesh,  
 Primary Filter: made of polyester fibre, filter cotton  
 Secondary Filter: made of PP+PET  
 Filtration Area: W x D x H: .....270 x 270 290mm  
 Filtration Efficiency: .....>95%  
 Fuse Rating (Unit fuse NOT plug fuse): ..... 10A  
 Motor Power: .....350W  
 Weight: ..... 30kg  
 Noise Rating: ..... 78dB(A)  
 Number of Filter Cartridges: ..... 3  
 Number of Phases/Frequency: .....1/AC230V~50Hz  
 Suction Arm: ..... 1.5m  
 Sound Pressure: .....76dB (C)  
 Specified Max. Ambient Operating Temp: ..... 40°C  
 Short circuit current rating for each incoming power supply:  
 No filter/220V/50Hz Input: Incoming current: 3.8A Max operation current: 2.8A  
 With filter/220V/50Hz Input: Input current: 3.8A Operation current: 1.2A  
 Full load current for each incoming supply:  
 No filter/220V/50Hz Input: Input current: 3.8A Max operation current: 2.8A  
 With filter/220V/50Hz Input: Input current: 3.8A, Operation current: 1.2A  
 Temperature and atmospheric conditions for Operation and Storage: +5°C to +40°C  
 This extractor can be used for welding fumes containing CMR (carcinogenic, mutagenic, reprotoxic) substances, with more than 5 % (Cr, Ni).



### 4. ASSEMBLY

Numbers refer to attached Part List

- 4.1. Fit wheels (20) secure with split pin (13) and castors (19).
- 4.2. Fit extraction hose assembly (22) with six M5 x 12mm screws.
- 4.3. Fit handle (6) using four M8 x 30mm screws.

### 5. CONTROLS

- |               |                  |
|---------------|------------------|
| A: Mains lead | C: On/Off switch |
| B: Fuse       | D: Fan speed     |



### 6. OPERATION

- 6.1. **RESTRICTED USE**
  - 6.1.1. The use of the machine should be restricted to those trained in its use. Reduce the risks associated with welding using an extractor properly, so it is paramount to train Welders in its correct use.
- 6.2. **FUNCTIONAL TESTING**
  - 6.2.1. **Frequency of functional testing:** The Extractor should be functionally tested every time before use.
  - 6.2.2. **Method of functional testing:** The fan needs to be checked that it can extract properly and the simplest way to do this is to put your hand over the end of the nozzle so the suction can be felt, if it cannot be felt or a reduction sensed then there might be an issue with the fan or the filters which will need resolving before use.
- 6.3. All 3 filters must be in place during operation.
- 6.4. Connect to mains supply. Press On/Off switch (C).
- 6.5. The nozzle of the extraction arm needs to be pointed at the area of welding, not too close so as to be damaged by the welding process but close enough to suck up the fumes to go through the extraction process.
- 6.6. Set fan speed as required (D).
- 6.7. **BLOCKAGE**
  - 6.7.1. The extractor can become blocked by something being sucked into the extractor which blocks the arm or nozzle, or the filters. It could become clogged by fume particles. In both cases switch off and unplug the machine, then remove blockage from arm or nozzle or in the case of clogged filters clean or if necessary, replace.

### 7. MAINTENANCE

- WARNING!** Remove from mains supply before performing maintenance.
- 7.1. Restrict use and maintenance of this product to trained personnel only.
  - 7.2. Preventative maintenance measures to be observed: Check filters regularly, clean and replace as required.
  - 7.3. Electrical and mechanical maintenance intervals are determined by the working environment and maintenance time of the equipment. The maintenance interval is usually three months.
  - 7.4. If the equipment operates for more than 8 hours per day, the maintenance interval should be shortened as required.
  - 7.5. Regular maintenance can ensure good equipment performance.
  - 7.6. **MAINTENANCE**
    - 7.6.1. Clean the metal mesh of the metal filter.
    - 7.6.2. Replace filter cotton of primary filter (polyester fibre filter cotton).
    - 7.6.3. Replace the whole secondary filter (PP+PET).

- 7.6.4. Refer to fig.1.  
 7.6.4.1. **Filter Inspection:** Remove the front cover, and then remove the filter holder. The filters are inside, remove them for cleaning or replacement.

7.7. **RESIDUAL RISKS THAT REMAIN**

The Extractor will collect dangerously contaminated particles which could lodge in the machine itself or in the filters. This needs to be considered when working on the machine or cleaning or disposing of the filters which should be treated as hazardous waste.

7.8. **STORAGE**

- 7.8.1. Extractor must be stored in a dry (avoid high humidity), childfree location. Where it will be safe from impacts.

7.9. **TRANSPORT/HANDLING**

- 7.9.1. Care must be taken when moving the extractor around the working environment.  
 7.9.2. The handle must be used to move the extractor. **DO NOT** run over the hose.

**8. TROUBLESHOOTING**

	Fault	Reason	Solution
1	Small air volume	1.Fan speed too low 2.The hose is not sealed or dirty	1.Check fan speed 2.Check whether there is leakage at the connection and check the hose.
2	Fan fails to start	1.No mains power 2.Wiring error 3. Motor circuit breaker trips after reaching set current	1. Check power supply 2. Check the wiring for loose connection/short circuit 3. Close the circuit breaker again
3	Loud fan noise	1. Fan reversing 2. Dust deposit on fan 3. Loose fan screws	1.Exchange any two-phase sequence of power supply 2.Clean the fan 3.Tighten screws
4	Non suction dust/ smoke	1.Power failure	1.Confirm whether there is power failure



**WEEE REGULATIONS**

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



**ENVIRONMENT PROTECTION**

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.



REGISTER YOUR PURCHASE HERE

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