



MAXVAC

FUME EXTRACTOR WFE 300/400



INSTRUCTION
MANUAL



FUME EXTRACTOR WFE 300/400

Carefully read these instructions before use and keep them safely after reading for later reference.

INSTRUCTION MANUAL

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Dear customer,

Thank you for choosing a WFE 300/400 Welding Fume Extractor made by MAXVAC.

The WFE 300/400 from MAXVAC has been manufactured with the greatest care, and we hope that you will be happy with the WFE 300/400 you have just purchased. However, if it does not fully comply with your expectations, please contact your supplier.

The MAXVAC brand was born in Switzerland to provide maximum performance equipment to deal with dust management and provide environmental cleaning solutions.

The MAXVAC team is passionate about providing the most environmentally and ecologically acceptable cleaning solutions to promote clean and healthy environments in the home town and workplace.

The WFE 300/400 was specifically designed for the industry.

We are committed to continuous effective improvement in the battle against fine dust.

For more information on our range, please visit www.max-vac.com



CONGRATULATIONS

Congratulations on your purchase, you have obtained a state-of-the-art welding fume extractor system. Only the finest materials surround the finest air purification technology. We hope that you will enjoy your purchase for years to come.

Read ALL instructions carefully before using this product.

FOR YOUR RECORDS

Please record the model and serial number below, for easy reference, in case of loss or theft. These numbers are located on the back panel of your air purification unit. Space is also provided for other relevant information.

Model number

Serial Number

Date of Purchase

Purchased From

This product conforms to applicable CE requirements and the purifying effect has been confirmed by the international professional testing agency.

This product is suitable for applications where fumes are produced such as smoke, peculiar smells, dust, poisonous and harmful gas, soldering, laser marking & carving, printing, and medical care, etc.

With the triple-filter design and powerful suction, the absorbing efficiency and filtration ratio can reach 99.97%. The purified air can be discharged directly indoors.



SAFETY PRECAUTIONS

In order to avoid possible damages or property losses to yourself and others, please observe following safety precautions.

- **Do not pull a power line during movement or storage.**
- **Do not touch a power plug with wet hands.**
- **Do not damage the power line or power plug.**
Do not cut, modify, pull, excessively twist and wrap the power line. Do not place a heavy object on the power line or squeeze the power line.
Replace damaged power line (if any) by a professional of the Manufacturer's maintenance Department or designated department so as to avoid damage.
- **Do not use the power, socket or connecting device which are overrated, and only use 220V 50Hz AC power.**
- **Do not use it at the place where a child can have an access to it.**
- **Do not use chlorine or acid detergent.**
- **Do not put fingers or metal objects into the air inlet, air outlet and other gaps.**
- **Do not dismantle or modify the air purifier without authorization. Please contact the manufacturer for troubleshooting in case of any fault.**
- **Fully insert the plug into power socket.**
- **Regularly clean the power plug.**
- **Pull out the power plug, and dry it with dry cloth.**
- **Pull out the power plug in case of long term non-use.**
- **Switch off the power before maintenance. In the occurrence of any following circumstances, immediately switch off the power.**
 - If the switch does not work.
 - If a circuit breaker acts or the fuse burns out.
 - If the power line or plug becomes abnormally hot.
 - If burning smell or abnormal sound of vibration is found.
- **In case of any other abnormalities or faults.**
- **Entrust the manufacturer, maintenance center or a qualified technician to replace the damaged power line (if any) so as to avoid danger.**
- **Children or persons suffering disability, perceptual disturbance or mental retardation should use the air purifier under supervision and assistance of the Safety Director.**
- **Do not allow a child to operate the fume extractor without authorization.**



SAFETY PRECAUTIONS

- **Do not place it at the following places. Unstable bearing surface.**
Areas of High-temperature and high-humidity where the fume extractor is possibly damaged.
Prevent volatile substances or combustible goods such as cigarette or incense from entering into the fume extractor so as to avoid fire.
- **Do not clean the fume extractor with alcohol, diluent or other solvent, and avoid surface contact with aerosol bomb.**
- **Do not use the fume extractor in a room where aromatic insecticide is sprayed. [After insecticide is sprayed, open windows to keep the room thoroughly ventilated, and then use the fume extractor].**
- **Do not sit on or lean against the fume extractor so as to avoid possible damage and personal injury.**
- **Correctly insert and extract the power plug so as to avoid damage to the power line.**
- **The fume extractor cannot be used to eliminate carbon oxide. When using with a non-electrical heater, please keep the air flowing.**
- **Caution: This unit is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision concerning use of the unit by a person responsible for their safety.**
- **Children should be supervised to ensure that they do not play with the unit.**

Check Before Using

Before switching on the power for the first time, please ensure that the following conditions exist, so as to guarantee safe operation.

1. The machine should be intact;
2. The power switch should be in the OFF position;
3. The filter element(s) should be evenly placed;
4. The cover and box body should be installed securely;
5. The speed-regulating button is adjusted to "OFF" Status;



WARNING

Please read all of the information provided in this user's guide before operating your new fume extractor unit.

This fume extractor unit is not a medical device. Do not stop or alter any medical therapy programs or medications without the advice of your physician.



CAUTION
RISK OF ELECTRICAL SHOCK
DO NOT OPEN
ATTENTION



Caution: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE BACK COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



Before use, please read and follow the safety precautions below to prevent fire and personal injury.



This product is prohibited to be used in a high temperature environment (above 80°C) or in a flammable, explosive or greasy environment.



This symbol indicates that insulated material within your unit may cause an electrical shock. For the safety of everyone, do not remove product covering.



Do not remove or install filter elements while the machine is operating. Hands or other objects should not touch the rotating impeller. Dis-assembly of the product for inspection or maintenance must be performed by professionals.



UNIT COMPONENTS



SPECIFICATION

Model	WFE300	WFE400 (2 Arm ducting)
Air Inlet Interface	Φ50mm / Φ75mm	Φ50mm / Φ75mm
Input Voltage	AC220V	AC220V
Maximum Power	210W	210W
Filtering Efficiency	0.3μm 99.97%	0.3μm 99.97%
Noise	<55dB	<55dB
Length of Ducts	1.4M	1.4M x2
Systemic Flow	330m³/h	330m³/h
Dimensions of Main Unit	L425xW250xH410mm	L425xW250xH410mm
Weight	14kg	14kg



INSTALLATION & DIRECTION OF USE

Filtering Core Installation

Open the top cover and correctly install the high-efficient filtering core, medium-efficient filtering core, primary-efficient cotton filtering with top cover and press for buckle hasps at the two sides.

Suction Duct Hose Installation

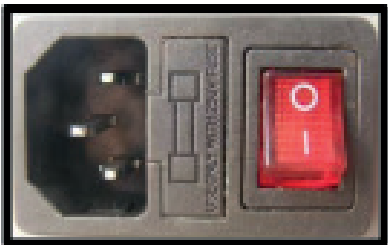
1. Remove the hose from the package, and attach it to the duct flange on the cover of the machine.
2. Turn the tube, aim exhaust fume collecting hood with the smoke outlet. Adjust the suction distance based on the application.

When adjusting the direction of suction duct hose, try to maintain a broad loop or bend radius of the hose, otherwise it will affect the suction force. The suction inlet shall directly face the working point. Keep the distance within 150mm.

Try to avoid areas with excessive air flow, otherwise suction force will be affected or diminish completely.

Machine Operating Instructions

Plug in and check if the power plug is properly fit into the socket.
Turn on the power switch.



Adjust the speed-adjusting knob to start the machine according to different needs on the air flow (Picture below).



Before starting the machine, the speed-adjusting knob should be adjusted to the OFF position.

The air flow should be set according to the actual demand. It should not be set too high or too low. Excessive air flow increases the power consumption as well as the noise level.



Operator Interface Button Functions

Power Switch button

Pressing the power switch on the remote control or the machine control panel should cause the machine to start running and the orange light on the machine control panel should turn ON. Pressing the power button on the remote or the machine control panel again should cause the machine to stop running and the orange indicator light on the machine control panel should turn OFF.



In the event that the machine takes a long time to shutdown, please turn OFF the machine main power switch and unplug the power plug.



INSTALLATION & DIRECTION OF USE

Air Volume Up Button

Press this button when the machine is running, the number on digital tube display increases in multiples of 10, the maximum number is 100 which means the machine is running in full speed.

Air Volume Down Button

Press this button when the machine is running, the number on digital display decreases in multiples of 10.

Confirm/Set Button

If the machine is in alarm status and buzzer sounds, press the Confirm/Set button to turn OFF the alarm. If the machine is not in alarm status, press the Confirm/Set button to check the total working hours of the machine.

Panel Lock-up

Press this button on the remote when the machine is working, all function keys on the machine control panel will be locked. Press again or reboot the machine to unlock.

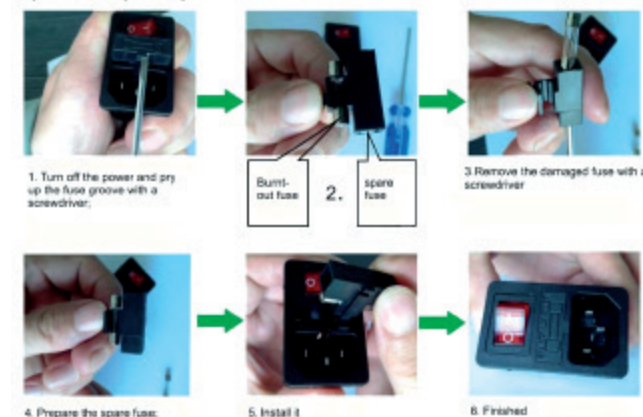


TROUBLESHOOTING

Make sure the power is switched off and unplugged before inspecting or repairing the machine!

Problem	Cause	Solution
The machine still works, but the air flow is very weak and suction power is greatly reduced.	Air Inlet is blocked or foreign body exists inside the duct. The filter becomes saturated and hence gets blocked and gives an alarm.	Turn off the power and open the top cover. Check if there is any foreign body blocked in the air inlet. Then check if the air vent is blocked or not. If the suction power of the empty-loaded machine is normal, it means the filter needs to be replaced.
The machine shuts down automatically after it is just started. Even if you restart the machine, the same problem happens again.	The air flow through the machine is obstructed. As a result, the starting current of the fan becomes very high, hence the machine shuts down automatically for self protection.	Turn off the power and open the top cover. Check if there is any foreign body blocked in the air inlet. Then turn the speed-adjusting knob to the lowest level and restart the machine. The machine should function normally.
Power switch is ON, but machine does not run and the power indicator does not light up.	The fuse might be bad.	The fuse needs to be replaced by performing the following steps below:

Operation steps to replace the fuse:



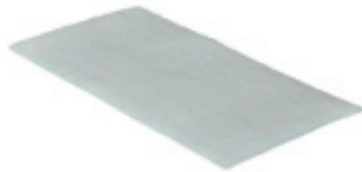
If the problem remains after these inspections and maintenance are performed, please contact customer service.



FILTER USE & MAINTENANCE

This product uses disposable filtering elements. When these elements have been used to a certain extent, they need to be cleaned or replaced in order to guarantee the good purifying effect of the machine.

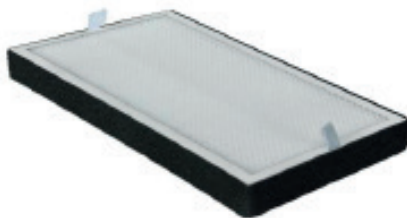
1. Pre-filter



Air Flow
Direction

Use method: Place the Pre-filter on top of Middle Filter. The front side (rough side) is facing upwards (air inlet direction). When the accumulated dust on the Pre-filter is over 70% and cannot be cleaned any more, please replace the Pre-filter with a new one.

2. Middle Filter



Air Flow
Direction

Use method: With the handle side facing up, put the Middle Filter inside the Main Filter. The medium filter shall be immediately cleaned off when the accumulated dust on the Middle Filter evidently affects the suction power. When it cannot be cleaned any more, please replace the Middle Filter with a new one.



3. Main Filter



Air Flow
Direction

Use method: With the handle side facing up, place the Main Filter at the bottom inside the machine. When it cannot effectively eliminate the peculiar smell in the smoke, please replace it with a new one.



IMPORTANT USE CONSIDERATION



The power source for this machine must fall within the specified nominal voltage scope (subject to the power identification on the machine body).



It is strictly forbidden to use this machine with excessive high or low voltage, if the ambient voltage is unstable, please turn off the machine, unplug the power plug and use it again once the power has stabilized.



While using the machine, the ambient temperature range of the gas and the dust which is sucked into the air inlet should be within the range of atmospheric temperature to a maximum of 60 °C.



Never use the machine when the temperature is higher or lower than this temperature range.



When using the machine, the humidity of the gas and the dust sucked into the air inlet should be between the range of 40%-80%. If the humidity is excessively high, the filter element will become ineffective rapidly and the internal circuit will be damaged. Never use the machine when the humidity is higher than 80%.



If the machine has a primary cotton filter, then this filter must be properly installed before machine use. The primary cotton filter is considered a disposable consumable item and should be replaced once it becomes clogged. (DO NOT WASH AND REUSE). Please replace the primary cotton filter with an OEM part regularly. Never use the machine without the primary cotton filter or with a poorly performing primary cotton filter.



It is strictly forbidden to use this machine without a filter element because the fumes or the dust particles sucked in the machine directly will cause damage to the air blower and the control system. Any fault caused by machine use under the previously stated conditions shall be serviced at the user's own cost.



Do not continue to use the machine when the filter element or the cotton filter is clogged. This will greatly shorten the service life of the machine and will damage the machine. Please clean and maintain the machine regularly and replace the filter element regularly to ensure the proper operation of the machine.



In the event that your machine filter element becomes clogged, the suction force is lowered or the filter element for foreign odour removal fails to remove the odor, it is not permitted to use this machine by reducing the machine's number of layers of the filter elements or without utilizing the primary filter element or cotton filter. Please replace the filter element and primary cotton filter with OEM filters.



Never open the machine for maintenance by yourself, the warranty sticker on the machine is the only voucher you have to enjoy after-sales service so please don't tear it up or damage it.

The warranty will not cover any losses or damage that may be incurred by the user if the previously stated instructions are not followed.



WARRANTY

The MAXVAC WFE 300/400 is supplied with a 12 month warranty on material and manufacturing defects. Keep (or a copy of) your receipt in order to be able to submit the correct purchase date.

Never try to repair the fume extractor yourself without prior approval from the manufacturer.

The warranty does not include defects that result from normal wear, negligence, incorrect use, repairs without permission and defects caused by connecting the fume extractor to the wrong mains voltage.

Should you determine that your unit requires a service, please contact your local dealer.



EU - DECLARATION OF CONFORMITY

Complies with machinery directive 89/392 plus annexes.

Welding Fume Extractor

Models: WFE 300/400

MAXVAC, hereby declares the above stated models comply with the following or relevant part thereof:

Machinery Directive:
2006/42/EC (Part 98/37/EC)

Noise Emission Directive:
2000/14/EC

Electromagnetic Capability Directive:
2004/108/EC (Part 89/336/EC)

Low-voltage Directive:
2006/95/EC (Part 89/336/EC)

Filters:
HEPA13 / Carbon / G3
EN 1822-1:2019
ISO 16890-1:2016

Manufacturer: MAXVAC, Schweiz.

Date: 1st September 2020.



MAXVAC



Mülibodenstrasse 3
CH-8172 Niederglatt
Zürich, Schweiz



+41(0) 43 411 4195



max-vac.com

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