THE ENVIROFLEX® ESE102A-HV PORTABLE SMOKE EXTRACTOR

OWNER’S MANUAL

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INTRODUCTION

MAJOR COMPONENTS

Cabinet
The cabinet is fabricated out of satin coat mild steel and is painted via powder coating. The Enviroflex® names etc. are all silk screened over the powder-coated paint.

The ESE201A-HV Portable Smoke Extractor unit uses disposable cartridge type filters. The operating life expectancy of the filters depends on the type of smoke being removed, the severity of the smoke and the duty cycle. It is extremely difficult to pinpoint how many pounds of consumable wire or electrode that can be deposited before the filters plug up. This is extremely difficult to estimate, as there are too many variables.

To replace or clean filters:

(1) Turn off the Smoke Extractor and pull out the electrical plug from the wall receptacle.

(2) Unfasten the (2) latches located at the front of the machine. Remove the spark trap.

(3) Pull out both cartridge filters and inspect the small primary filter (EF100) which can be blown out using a low pressure air nozzle. You take the prefILTER and turn it upside down and blow it from the outside only. You utilize the gasket on the front of the filter to eliminate blowing the contaminant all over the shop. The larger HEPA filter (EF200) is not a filter which can be cleaned, so when this filter is loaded up it must be thrown away. Do not attempt to blow out this filter as the paper will likely rip. Normally you will replace the EF200 HEPA filter for every 3 or 4 prefilters that are replaced. This is only an approximate estimate.

(4) Place the new cartridge filters back into the cabinet making sure the outer gasket of the large filter comes in contact with the cabinet rim.

(5) Before placing the spark trap on the unit you should shake the spark trap to remove any heavy particulate that has been caught inside behind the impinger plate.

(6) Reinstall the spark trap in the cover and place the spark trap over the front of the cabinet making sure that the cover is seated correctly on all edges of the cabinet. Tighten the (2) latch catches.

(7) Plug the machine back into the wall receptacle and turn the unit on. You are now ready to use the Smoke Extractor again.

Charcoal Filters
If you have purchased the (2) optional charcoal filters it is a very easy installation. To install them you have to remove the spark trap then remove the EF100 and EF200 filters. Install (1) of the charcoal modules by butting them up against the motor hole plates at back of the filter plate. Please note it is vital that the flat portion of the charcoal cassette is facing the filters. Otherwise the air does not get a chance to expand before entering the motor and would only utilize a small porting of the charcoal the size of the motor inlet hole. Reinstall the EF100 and the EF200 filter. Install the filter plate and the spark trap.

The charcoal will have to be replaced when odors can be detected coming out of the louvers on the 2 sides of the unit.

Electrical Service
The (1) electric motors is equipped with replaceable brushes. Once they become worn the motor will automatically stop, thus eliminating any potential damage to the commutator. To replace the brushes be sure that the power has been turned off and the power cord has been removed from the wall outlet. Unscrew the four screws located at the rear of the cabinet to allow access to the motors. Remove the protective fan cap by lifting the metal clips that are located on the sides of the cap. Remove the hold down screw, which secures the brush in place, and pull off the bayonet connector from the brush. Remove the old brush from the motor and install the new brush by reversing the above procedure. Replace the cap and screw the motor housing plate back onto the back of the cabinet. The ESE201A-HV unit is now ready to operate.

If at any time you are unsure of any procedure, please do not hesitate to contact your nearest distributor.

Replacing Motor
If at any time you have to replace a motor please follow the following procedure.

1) Remove the (4) screws on the cooling air intake plate at the back of the machine. Remove the motor intake plate.

2) Remove four Red Robertson screws from the motor plate.

3) Unscrew the switch on the top of the machine and remove taking special precaution that the switch remains intact.

4) Remove the motor plate with the (1) motor on it - Remove the defective motor and install the new
motor making sure there is a motor gasket between the motor and motor plate. You can then screw the new motor in.

5) Connect the bottom motor wire and connect the wire to the white nylon terminal connector.

6) The single wire on the terminal board goes to number 1 (#1) on the switch. The wire on the bottom motor goes to number 2 (#2) on the switch. The white wire on the power cord goes to the wire on the terminal board that goes to #2 on the switch. The black wire on the power cord goes to the single wire on terminal that goes to the number 1 (#1) on the switch. You can now put the switch and plates back in place.

**Preventative Maintenance**

The brushes should be changed every 400 operating hours. This procedure should become part of a preventative maintenance program. This eliminates potential problems with the commutator.

The EF100 prefilter and the EF200 have to be periodically replaced. The suction will deteriorate as they load up with particulate.
Limited Warranty

Subject to the terms and conditions hereof, Enviroflex International Inc. warrants to its customer that all new and unused Equipment furnished by Enviroflex is free from defect in workmanship and material as of the time and place of delivery by Enviroflex. All products excluding the motors in the ESE Portable Smoke Extractor carry a (1) one year warranty on materials and workmanship. The ESE motors are limited to a (3) three month warranty. The Company's responsibility and obligation under the guarantee is limited to the exchange of any defective parts which have been returned prepaid, to the factory and which prove to be defective through normal use. ONLY PREPAID RETURNS WILL BE ACCEPTED. Goods replaced under warranty will be returned prepaid. If in the company's judgement the replaced parts are not covered by the warranty, parts will be billed with a small labour charge and returned collect. No goods will be accepted without a written authorization from Enviroflex International Inc.

The conditions of the Guarantee are:
The unit must have been operated within its listed capacity.
Your Smoke Extractor is guaranteed for one (1) full year from the date of original purchase, against electrical and mechanical defects in material and workmanship. The warranty does not include the prefilter or after filter. The warranty does not cover damage caused by misuse, negligent handling, or use on voltages other than that stamped on the Smoke Extractor.

This warranty does not cover any personal injury, property damage, or any incidental or consequential damages of any kind, resulting from defect, malfunctions, misuse, or alteration of the product.

This guarantee is in lieu of any other warranty, either expressed or implied.

If warranty service is required, send the part(s) prepaid to your dealer or nearest authorized service center, with a proof of purchase. Ensure that sufficient packing material is used. If part(s) arrive damaged due to improper packaging, warranty will be void. Please enclose a note explaining the nature of your difficulty.

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Owner’s Name__________________________________________________________

Address________________________________________________________________________

City____________________________State/Province__________________________Zip/Postal Code______

Distributor’s Name__________________________________________________________

Model No.______________________Serial No.___________________Date of purchase________________

Reasons for Buying: 1) Improved Air Quality □  
2) Welding Smoke Removal □  
3) ________________________________________________

Where did you hear about this unit? 1) Newspaper or Magazine? □  
2) Telephone Directory □  
3) Trade Directory □  
3) Enviroflex® Distributor □  
4) Friend □  
5) Another company □  
6) Trade Show □  
7) ________________________________________________

Other________________________________________________________________________