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FE-WS6
Downflow Ductless Workstation

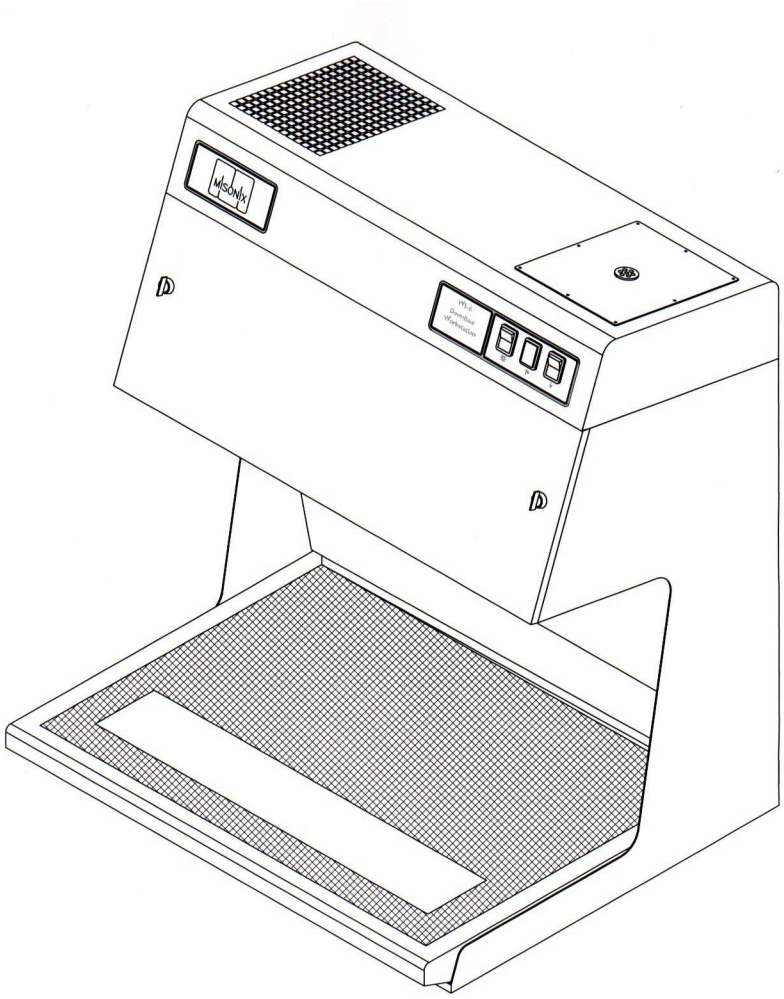
Operator's Manual



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www.misonix.com

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FE-WS6 DOWNFLOW WORKSTATION

CONSTRUCTION

Enclosure / Filtration Head – Epoxy coated Zintec
Worksurface / Spillage Tray – 316 Stainless Steel

Outside Dimensions:
Width – 27.56 inches
Depth – 23.62 inches
Height – 32.28 inches

Worksurface Dimensions:
Width - 25.2 inches
Depth – 18.9 inches

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SECTION 1

OPERATION

The workstation module has a control panel containing a fuse, low airflow alarm, and illuminated rocker switches.

When the pre-filter becomes blocked, the RED neon light will start to flicker.

DESCRIPTION

The FE-WS6 ventilated workstation provides operator protection from particulates and fumes with maximum access to the specimen.

The specimen board is placed on to the ventilated section of the worksurface ensuring that air is drawn around the four sides of the board. The air is then drawn through a set of filters and returned to the room, through the top exhaust grill.

SECTION 2

INSTALLATION

The workstation stands on a bench top and only requires the insertion of filters (if not already installed), and connection to a 13A main outlet socket.

SECTION 3

FILTERS

Particulate Pre-Filter

A “Filtrete” electrostatically charged pre-filter is fitted before the main filter assembly to remove particulates from the airflow. This filter provides a very efficient particulate filter down to 0.5 microns with a structure that provides little resistance to the airflow.

After a period of use, the filter will start to block and reduce the airflow, the fan will increase the pressure available and as the filter comes to the end of its useful life, the airflow alarm will start to flicker. At this point, the pre-filter must be replaced. The filtrete will remove particulates, aerosols and mist from the airstream. *Misonix recommends you check your pre-filters every three months to ensure proper airflow. Changing pre-filters on a regular basis will dramatically extend the life of the more expensive main filter.* **When working with powders it is recommended to change pre-filters every 3 months.**

Main Filter

The activated carbon and / or the HEPA filters vary with the size of the workstation. The carbon grade will be selected from a wide range of impregnated carbons to suit the specific application. The normal grade specified for pathology workstations is the

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filtration of Formalin fumes. Challenging the filter with formalin and checking the exhaust emission using a Draeger or Gastec sample pump and tubes can check the efficiency of the filter. HEPA Filters can also be challenged by performing a DOP test using a Virtis Model JM-9000 DOP Test Machine (or equivalent). ***Misonix recommends changing filters every 12 months.**

The workstation should not be used to dispose of large quantities of waste formalin. This can temporarily overload the capacity of the filters and reduce filter life.

FILTER ASSEMBLY

The carbon or HEPA filter is installed through the Front panel cover by turning the latches (2) 180° to unlock. The filter is installed with the foam gasket facing downward.

The pre-filter is located under the main filter assembly, and is replaced from the underside of the work area.

Procedures to remove and / or replace the pre-filter assembly are as follows:

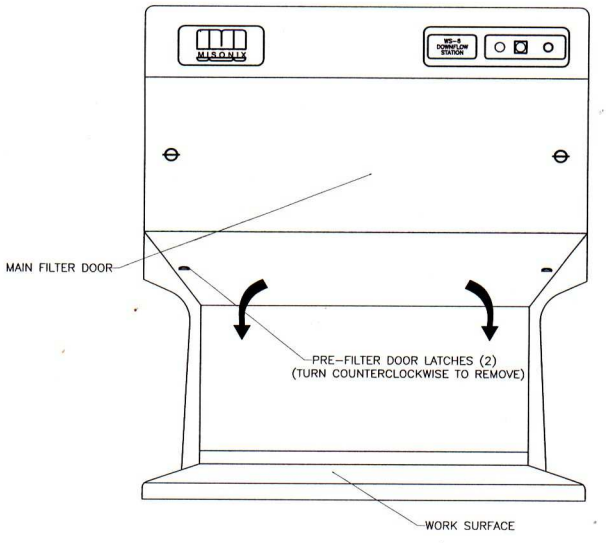
a. Unlock pre-filter door latches (turn counterclockwise).

b. Rotate the back panel downward and remove.

c. Slide grill to the front to clear frame, and downward to remove the grill and used pre-filter.

d. Place new pre-filter on grill (make sure it is centered), slide both items into front of pre-filter frame and then backwards to secure.

e. Replace back panel onto hinge pegs; rotate upward into position and secure with a 180° turn of the latches (2).



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FILTER DIPOSAL – FORMALIN GRADE FILTERS

1. The filter should be handled with proper safety protective equipment.
2. Seal filter in a leak-proof plastic disposal bag.
3. Disposal of the expended filter should be in accordance with Federal, State, and Local EPA regulations / guidelines.

SECTION 4

LOW AIRFLOW ALARM

The low airflow alarm is a pressure switch, which activates a RED neon warning light when the negative pressure in the plenum chamber rises due to filter blockage.

When the RED neon light flickers, it is necessary to change the pre-filter.

SECTION 5

AIRFLOW TESTING

It is recommended to test air velocity every 6 months. To test air velocity, it is recommended to use a calibrated hot wire anemometer or vaneometer in 6 different areas on the perforated steel base section. Each reading should be above 80 feet per minute at the face of the steel worksurface.

MAINTENANCE

Attn: Fingerprint powder users - Clean pre-filters will extend the main filter lifespan. It is recommended to check pre-filters every 3 months and change them if the pre-filter is visibly covered in powder.

The fan is centrifugal, brushless, and sparkless and requires no maintenance. There is a thermal overload switch in the fan motor to prevent overheating, if the pre-filter has not been changed at the correct intervals.

The airflow and chemical condition of the filters should be checked regularly and at least once annually. Call Misonix for assistance.

The airflow should also be checked at regular intervals, the filters should be checked at least once every 14 months to comply with OSHA regulations / guidelines.

FLUORESCENT LIGHT

The fluorescent light is accessible by removing the Front cover panel. The bulb can be removed by rotating the bulb ¼ turn and sliding the pins out of the mounting slots.

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WARRANTY

Your equipment has passed rigid quality controlled inspection at each stage of assembly. It has been life tested under actual working conditions prior to shipment. The factory guarantees the equipment for two (2) years after date of purchase against failures due to defective material and/or workmanship.

During the warranty period, the factory will repair and/or replace any defective parts or defect in workmanship, which may occur during normal operating conditions and proper use of the equipment. Service and parts supplied by unauthorized sources will void the warranty. During the warranty period, there will be a handling charge only for the repairs described above. Defective equipment must be returned to the factory. Shipments sent Collect to the factory will not be accepted unless previously authorized.

Filters and lights are excluded from this warranty.

The factory does not honor the warranty on equipment subjected to misuse, improper installation, alteration, neglect, or accident. No warranties, expressed or implied, have been made other than those stated herein.

RETURN OF EQUIPMENT

All requests for repair and replacement parts should be directed to the Customer Service Department at Misonix, following the outlined procedure below.

1. Be prepared to provide the serial numbers of all applicable parts.

2. Call Customer Service (1-800-645-9612) to obtain a RMA (Return Material Authorization). *No returns are accepted without an RMA number*.

3. When sending in equipment, it should always be sent back in the original packaging.

4. Have your RMA number available when calling to check on returned items.

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