Monmouth Circulaire

FORMALIN STORAGE CABINET
MODELS: FSC 600, 1200, 1300, 1500

CONTENTS

Warning

This cabinet must be used in compliance with these instructions and any repairs or maintenance carried out by qualified personnel.

For parts or service information
please contact Monmouth Scientific on: +44 (0) 1278 458090

INTRODUCTION

Monmouth Formalin Storage Cabinets are designed for the safe storage of samples and other items containing formalin or formaldehyde. The use of this system ensures that COSHH requirements are met for the safe storage of samples in pathology laboratories.

The cabinets are available in four standard sizes. 600mm, 1200mm, 1300mm and 1500mm wide. Any combination of systems can be placed side-by-side to ensure a continuous run of shelving and cabinets.

Each cabinet has 6 separate stainless steel shelves, 4 of which are adjustable/removable, and four smoked acrylic lockable doors for added security (2 on the 600 model). The cabinet is continuously ventilated to prevent the build up of fumes in the storage area and therefore prevent anyone from being exposed to chemical inhalation. The air is drawn through an activated carbon filter sited above the cabinet to remove fumes before being returned to the laboratory.

INSTALLATION

The Formalin Storage Cabinet requires a 13A electrical supply and is supplied with a 2m mains lead terminated with a 13A plug fitted with a 5A fuse.
The cabinet should be placed in position and the levelling feet adjusted if necessary to ensure the cabinet is stable.

OPERATION

Switch the cabinet on with the green rocker switch on the control panel.
The airflow is continuously monitored by an airflow monitoring system and will provide a visual and audible alarm if the airflow drops below a safe level.
The cabinet should be left running continuously to ensure containment of fumes.

MAINTENANCE

CHANGING PRE-FILTERS

Filters concentrate dust, pollutants etc. and care must be taken when changing them.

IMPORTANT: Personal Protective Equipment must be worn when changing filters including gloves and particulate face mask.

If the airflow monitoring system indicates a low airflow this normally indicates that the Pre-Filter/s require changing

1. Turn the system off
2. Remove the front cover of the filtration unit using the key provided.
3. The pre-filter is situated on top of the main carbon filter and held in position by a metal frame
4. Remove the retaining frame and fit a replacement pre-filter
5. Replace the retaining frame, fit the front cover and turn the cabinet on.

CHANGING MAIN CARBON FILTERS

1. Turn the system off
2. Remove the front cover of the filtration unit using the key provided.
3. Lift and slide the carbon filter out of the cabinet with the pre-filter still in position on top
4. Replace both the carbon and pre-filter and re-fit them
5. Replace the front cover and turn the cabinet on.

REPLACEMENT FILTER PART NUMBERS

Replacement filters are available from Monmouth Scientific:

Please note: the FSC-600 is fitted with one main carbon and one pre-filter, The 1200, 1300 and 1500 models are fitted with two carbon and two pre-filters

Pre-Filter   Part No-   PF-0028

Carbon Filter (for use with Formalin)   Part No-   CF-0119

Carbon filters for use with other chemicals are available. Please contact Monmouth Scientific with your requirements.

SETTING FAN SPEED

This procedure requires the use of a rotating vane anemometer and exposure to live circuits. The procedure should only be carried out by trained personnel.

The fan speed can be adjusted by using a "live working" flat screwdriver to turn the control potentiometer located behind the front panel above the power switch.

The speed should be adjusted to provide an average velocity of 0.75m/sec across the air inlet grille located at the inside/ top of the filtration unit.

CALIBRATION OF LOW AIRFLOW ALARM

1. With new Pre-Filters fitted set the normal running fan speed using the procedure above

2. Remove the speed control blanking plug located above the switch and airflow alarm.

3. Turn the cabinet off and then on again while pressing the alarm mute button. When the button is released the cabinet will enter calibration mode

4. The alarm warning lights will flash alternately.

5. Adjust the speed control until the reading is approx. 0.4m/sec.

6. When the airflow has stabilised, press the Alarm Mute button again to store the set point.

7. Re-Adjust the speed control to give a reading of 0.75m/sec – this is the normal operating speed.

8. The Low airflow alarm operation can be checked by closing the door and blocking the slots with paper or tape. With the doors closed and the slots blocked, the alarm should sound and the warning light illuminate.

9. Refit the speed control blanking plug.

10. The cabinet is now ready for use.

SERVICING

An annual service is recommended to maintain optimum operating conditions and will include the following points:

- Check / replace pre-filter
- Check condition / replace main carbon filters
- Check airflow monitor and re-calibrate if necessary
- Check and record air velocity readings
- Check general condition of system.
- Issue test report and airflow certificate.

For parts or service information please contact Monmouth Scientific on: +44 (0) 1278 458090