AirBench™ MF3000 Operation and Maintenance

This Edition: 13 November 2019

AirBench Ltd, 6 Commerce Way, Colchester CO2 8HR
www.airbench.com
+44 (0) 1206 791191

© Copyright AirBench Ltd 2019

CONTENTS

Contents 2
Note 3
DIRECTIONS FOR USE 3
Prior to Use 4
PREPARATION 4
INSTALLATION 4
ELECTRICAL CONNECTIONS 4
Operation 5
PRINCIPLE OF OPERATION 5
CONTROLS 5
FILTER REPLACEMENT 5
LOG BOOK 5
FILTER ACCESS 6
FAULT FINDING 6
Support 6
DECLARATION OF CONFORMITY 7

NOTE

Directions for Use

The MF3000 is built to CE standards (1995) and conforms to HSG258 (controlling airborne contaminants at work). As such, it must be operated in strict accordance with this manual.

The MF3000 is designed for indoor installation only and must be protected from excessive moisture. Always make sure that good access is provided for the maintenance of the M3000.

Risk of personal injury, fire, or explosion

- The MF3000 must not be used in an environment where there is a risk of explosion from dust or gases in explosive concentrations
- The MF3000 must only be used for the designated application. Contact us before change of use.
- The MF3000 must not be used without filters
- Always isolate the mains power before changing filters or removing any components from the MF3000.

PRIOR TO USE

PREPARATION

Immediately upon receiving the MF3000, examine the packaging for any damage that may have occurred during shipment. In the event of any damage please contact the supplier immediately.

INSTALLATION

This unit weighs approximately 60kg. The unit must be installed on a suitable level floor or mount that is able to support its weight. Before installation, check that adequate space is available for replacement of filters.

ELECTRICAL CONNECTIONS

The unit is prewired to a standard 13a mains cable. This may be replaced if required by removing the cover of the control panel.

Take care not to pinch the electrical cables.

Switch on unit prior to final installation to check function.

OPERATION

PRINCIPLE OF OPERATION

The MF3000 is supplied with:

- EU4 Pre Filter
- H13 HEPA Cartridge
- Centrifugal fan assembly

Air is drawn through the two filters at the inlet and the clean air expelled at the outlet.

CONTROLS

All electrical equipment and controls are located in the electrical enclosure.

A pressure gauge is provided which indicates filter condition. When the pressure gauge enters the red zone, filters need attention, as detailed below. If gauge is in green zone, this indicates filters are not yet blocked.

FILTER REPLACEMENT

When filter 1 is full it can be emptied. Remove the filter from the housing and either vacuum gently, or tip loose dust into a skip. Wear appropriate PPE when performing filter maintenance.
Filter 2 must be replaced when full.

LOG BOOK

A log book is supplied with this unit. It should be used to record routine and unplanned maintenance activities and forms part of your compliance with HSE guidance for LEV systems.

FILTER ACCESS

Filters simply slide out to the side. Remove the larger pre filter to allow access to the bag filter.

FAULT FINDING

Fault	Remedy
Lack of Suction	Dirty filters (see page 5)
Motor does not operate	Mains fuse tripped.
Fan discharge air is contaminated	The filtration system is being by-passed. Check for damage or incorrectly fitted filter(s), and replace as appropriate.

- **Always isolate the mains power before changing filters or removing any components from the MF3000.**
- **Use necessary PPE**

SUPPORT

Contact your supplier, or the manufacturer:

AIRBENCH LIMITED,

6b Commerce Way, Colchester CO2 8HR, UK

Tel: 01206 791191 Fax: 01206 791091 Web: www.airbench.com Email: sales@airbench.com

AirBench

Business Name:	AirBench Ltd. 6b Commerce Way, Colchester, Essex. CO2 8HR
Responsible Person:	Simon Cook
Description:	Media Filter Unit known as “MF”

DECLARATION OF CONFORMITY

BY

AIRBENCH LIMITED

EMC Directive 2014/30/EU (when connected to standard mains sinusoidal supply).

Machinery Directive 2006/42/EC

Low voltage Directive 2014/35/EU

- EN-60204–1:2018 (Safety of machinery, electrical equipment of machines, general requirements).

- EN-60335-2-80 (Safety requirements for electric fans and regulators).

We; AIRBENCH Limited, declare that “MF” when supplied as self contained equipment comply with the directives detailed above and therefore comply with requirements of the Low Voltage Directive.

Simon Cook / Managing Director / 5th March 2021

Data shown is for standard models. Check the Commissioning Certificate for details specific to your unit.