



Spark-trap SFUV

Maintenance manual (EN)

Up to 2018 - V1.0-2021

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1. Introduction

This manual cannot be reproduced, even partially, without prior written consent by Formula Air Group. Every step of the filter range has been deeply analyzed by Formula Air Group in the expected area during the design, construction, and user manual creation. However, it is understood that nothing can replace the experience, training and good sense of those professionals who work with the device.

Ignoring the cautions and warning from the present user manual, using improperly parts or the whole device supplied, using unauthorized spare parts, manipulating the device by non-qualified personnel, violation of any safety norm regarding design, construction and use expected by the supplier, exempt Formula Air Group from all responsibility in case of damages to people or properties.

Formula Air Group does not take any responsibility for the non-observance of the user about the preventive safety measures presented in this user manual.

Failure to comply with the requirements of the user manual or incorrect use of the spark-trap during operation can lead to the damage of the spark-trap and improper functioning of the spark-trap itself. This will result in termination of the warranty on the item and will release the manufacturer from any liability.

Warranty

Regarding to the device's warranty, see the sales general condition.

Attention !

All drawings and references contained within this user manual are non-contractual and are subject to change without prior notice at the discretion of the Formula Air Group and its partners.

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2. General description

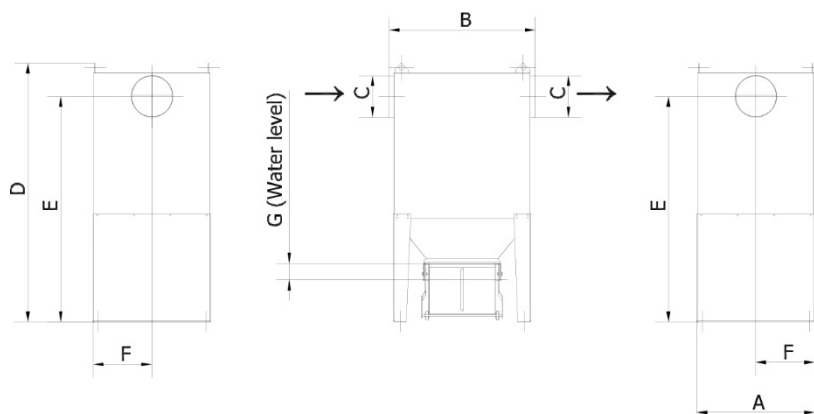
The pre-separator with spark arrest type SFUV is used as pre-separator for loaded air containing sparks and incandescent material.

As a standard it is produced in galvanized plates with a powder enamelled finish.

3. Functioning

The water bath in the unit container captures the sparks due to air being projected over the water surface.

Process air is led in by (➡) - see drawing below, after which the air passes through the pre-separator/water bath. The air then leaves unit through (➡).



Type	A (mm)	B (mm)	C (Ømm)	D (mm)	E (mm)	F (mm)	G (mm)	Delta-P (Pa)	Min. Air volume (m³/h)	Max. Air volume (m³/h)
SFUV 160	506	564	160	1154	994	253	80	500-1000	750	1500
SFUV 200	604	700	200	1332	1154	302	80	500-1000	1150	2300
SFUV 250	707	882	250	1557	1356	315	80	500-1000	1750	3500
SFUV 315	807	807	315	1738	1511	403	80	500-1000	2650	5300

The filtered material is collected in the container at the bottom of the unit.

3.1. Daily maintenance

Regularly check the water level in the container and make sure that it is filled.

Regularly clean out the deposits at the bottom of the container. BE CAREFUL to dispose of the waste according to local legislation.

Repairs may only be carried out by professional trained personnel.

4. Intentional / unintentional application

Spark-trap type SFUV may only be used in applications for which it is intended.

In ATEX-zones only units may be used that are marked for the same zone. Spark-trap units cannot be converted to another zone.

Repairs may only be performed with original spare parts.

5. Mounting

The pre-separator with spark-trap type SFUV are delivered on a pallet.

Placing or moving the unit must be done with adequate tools using the lifting eyes on the top corners of the unit.



They need to be placed on an even, stable surface and bolted to the surface with the adequate bolts in the holes on the base of the unit.

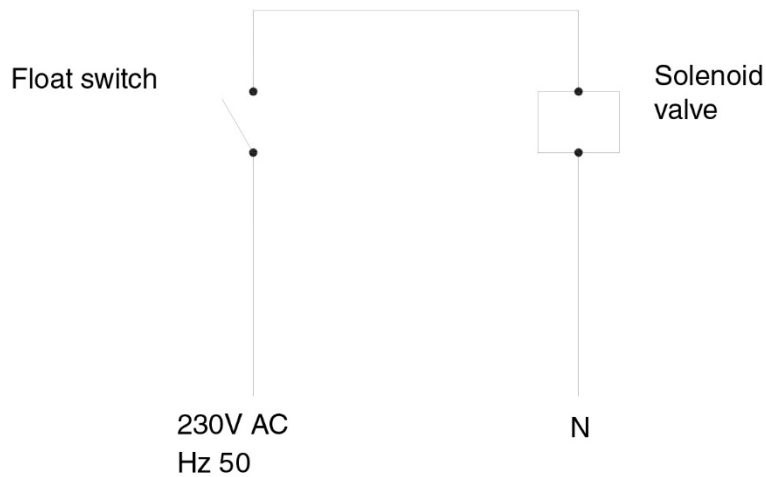
5.1. Ducting connection

The ducting connection must be made with approved ventilation pipes.

5.2. Mounting of automatic water filling-up (option)

The float switch and the solenoid valve must be connected in series and supplied with 230 VAC, 50 Hz.

See connection diagram below :



6. Operation

6.1. Before operation

Before starting you will need to fill the container with water. Make sure to fill the container up to the marking on the water level hose (on the container).

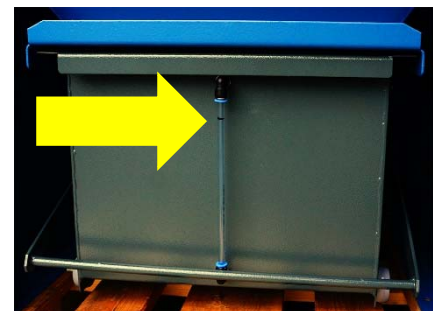
Water level may vary by +/- 10 mm.

Make sure that the container is closed before starting.

6.2. During operation

Check water level before each start.

If water level is too low, sparks will pass.



7. Maintenance

The waste removal (water and solid particles) takes place by emptying the container of the pre-separator with spark-trap type SFUV (please make sure that the hoses and cables for automatic water filling-up (optional) are not damaged).

After container emptying the float for automatic water filling-up (optional) is cleaned to ensure correct activation and container is rinsed with clean water to remove possible remains in the pre-separator container.

Container must be emptied at max. 50mm of solid particles in the bottom of the container and make sure that water level hose is clean.

Waste water is disposed of according to governmental demands depending on pollution type in the unit in question.

During all cleaning suitable hand and eye protections are mandatory to avoid direct contact with the polluted material.

8. Dismantling and recycling

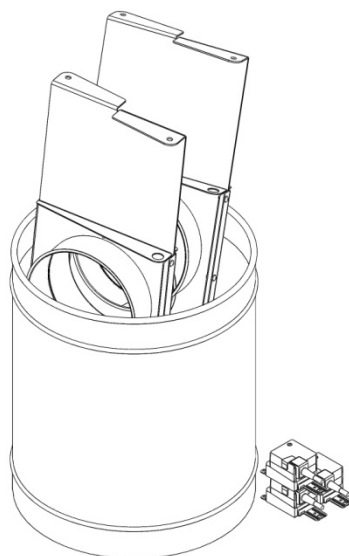
When dismantling a unit, be sure to keep in mind the following important information:

- As the unit is dismantled, set aside all still functioning parts to re-use them on another unit.
- You should always separate the different materials depending on their type: iron, rubber, oils, greases, etc...
- Recyclable parts must be disposed of in the appropriate containers or brought to a local recycling company.

The rubbish must be collected in special containers with appropriate labels and disposed of in compliance with the national laws and/or local legislations in force.

CAUTION!

It is strictly forbidden to dispose of toxic wastes in municipal sewerage and drain systems. This concerns all oils, greases, and other toxic materials in liquid or solid form.



9. Maintenance log

date	description



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