



Formula Air

Supporting your performance



- FUV 160
- FUV 200
- FUV 250
- FUV 315

FUV – Pre-separator with Spark arrest

Maintenance manual

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1. General description

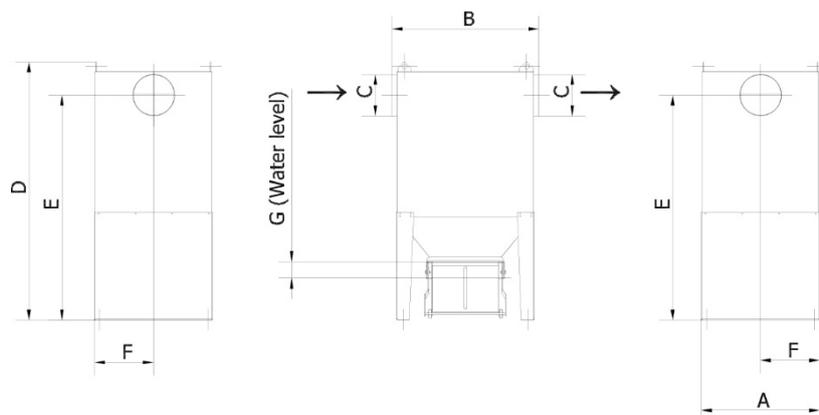
The pre-separator with spark arrest type FUV is used as pre-separator for loaded air containing sparks and incandescent material.

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

2. Function

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	Order no.	A	B	C	D	E	F	G	ΔP [Pa]	Min. air volume [m ³ /h]	Max. air volume [m ³ /h]
FUV 160	04 630 100	506	564	ø160	1154	994	253	80	500 - 1000	750	1500
FUV 200	04 631 100	604	700	ø200	1332	1154	302	80	500 - 1000	1150	2300
FUV 250	04 632 100	707	882	ø250	1557	1356	315	80	500 - 1000	1750	3500
FUV 315	04 633 100	807	1020	ø315	1738	1511	403	80	500 - 1000	2650	5300

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

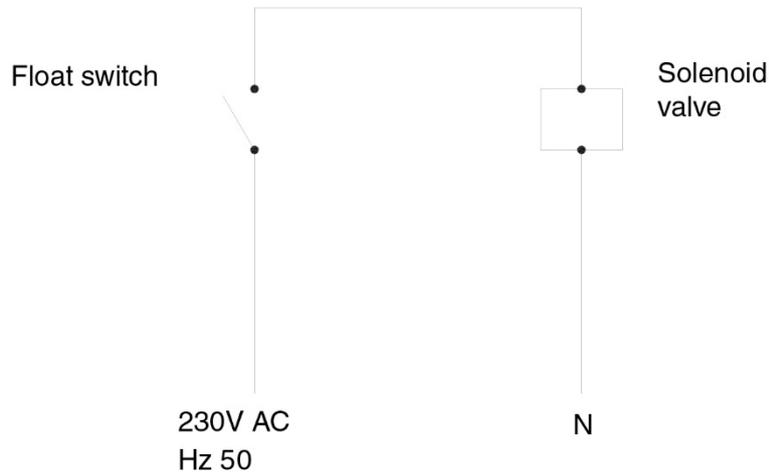
3. Mounting

The pre-separator with spark arrest type FUV is placed on an even, stable surface and bolted to the surface with the adequate bolts in the holes on the base of the unit.

3.1. Mounting of automatic water filling-up

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

See connection diagram below :



4. Operation

4.1. 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).

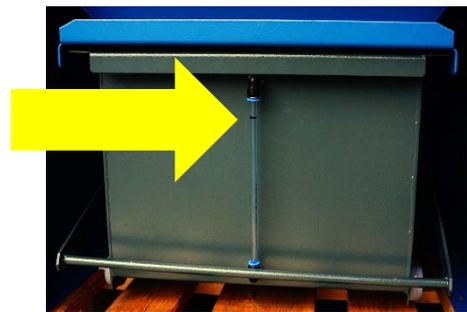
Water level may vary by +/- 10mm.

Make sure that the container is closed before starting.

4.2. During operation

Check water level before each start.

If water level is too low, sparks will pass.



5. Service

The waste removal (water and solid particles) takes place by emptying the container of the pre-separator with spark arrest type FUV (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.

6. Dismantling and recycling

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

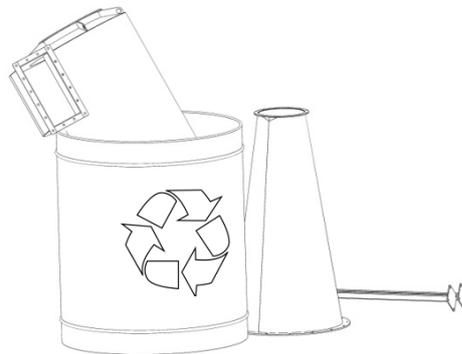
As the unit is dismantled, set aside all still functioning parts in order to re-use them on another unit.

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.



7. Spare parts

For spare parts please contact Formula Air Group.

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