FOG-2500 – filtration of welding dust and oil mist

Purpose

The FOG-2500 filtering unit is an appropriate solution for cleaning the air from the dust- and oil mist contamination. The appliance is irreplaceable in capturing the mist and fumes, arising at stands of metal machining, elimination of emulsion mists during tool cooling (with the water-oil emulsion), as well as during the welding – especially of oil-laden steel sheet or welding with application of large amount of anti-spattering preparations. Maximum temperature of the air should not exceed +60°C. FOG-2500 is designed for stationary workplaces.

Structure

FOG-2500 consists of subsequent elements:

- Housing of steel sheet,
- Radial fan,
- Net filter,
- Ioniser section,
- Collecting cell,
- Control unit – to start the device and control its function.

The appliance is produced in stationary version, equipped with a set of legs that has to be screwed up to the floor. The filtering unit contains two inlets of diameter d160 for connection of extraction arms of a workrange 2 or 3 metres and one additional opening of a diameter d250 to connect with the extraction ducting.

Operational Use

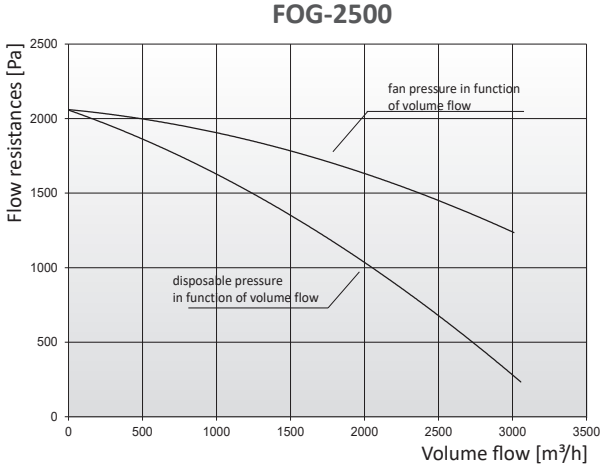
Directly, after starting, the control unit provides continuous fan function and cleaning of the flowing through air.

First, the polluted air streams through the net filter, where coarse fractions are depositing. Subsequently, the air flows through the ioniser section where the particles become plus-charged, and ultimately, in the collecting cell section, they sediment on the minus-charged plates. Having left the collecting cell section, the clean air is returned by the fan into the room. Cleaning efficiency is approx. 98%

In case of application for dust extraction during the welding, the maintenance consists in periodical cleaning the ioniser section and the collecting cell section from the viscous contaminants, (deposited on those elements), by washing them in the container with water and detergent.

In case of extraction of the oil mist, the water-oil emulsion etc., the contaminants themselves flow down into the dripping tray, under the filtration sections. The dripped out oil can be removed through the discharge valve.

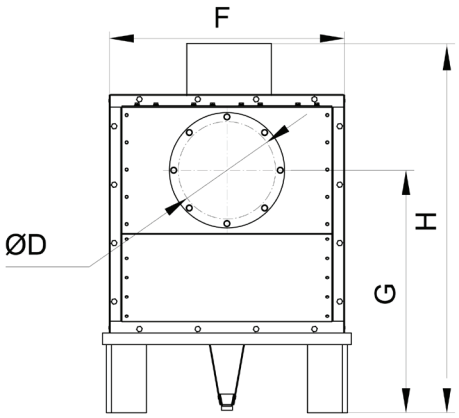
On demand is available a mobile version equipped with castor wheels.



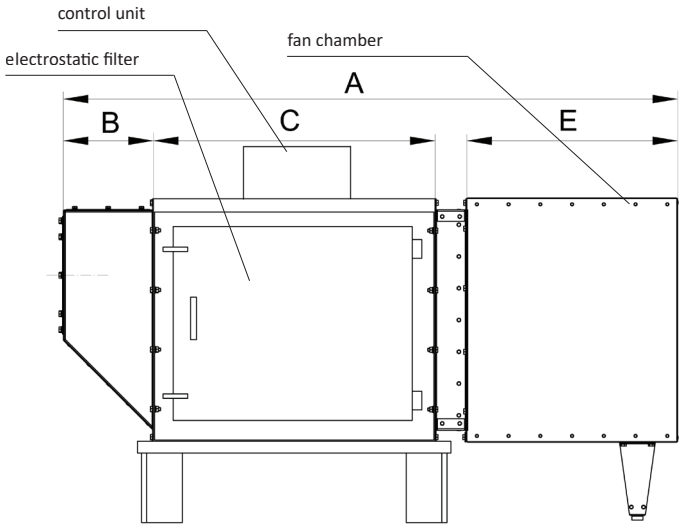
Technical Data

Type	Part No.	Maximum volume flow [m³/h]	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from distance:		Weight [kg]	Quantity of connections for ERGO extraction arms
						1 m	5 m		
FOG-2500	804F02	3050	2050	3x400	1,5	76	64	168	2

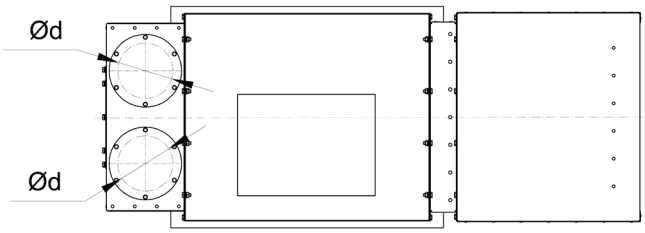
Front view



Side view



Top view



Dimensions

Type	A [mm]	B [mm]	C [mm]	ØD [mm]	E [mm]	F [mm]	G [mm]	H [mm]	Ød [mm]
FOG-2500	1550	225	710	250	530	605	625	1100	160

Additional equipment

Washing container

Type	Part No.	Remarks
P-FOG-2500	804F03	The container serves for washing the collecting cell section and is equipped with a drainage valve.