

## MISTOL DUST – filtering unit with pocket- filter



MISTOL DUST-1000



MISTOL DUST-2000



MISTOL DUST-5000

### Purpose

MISTOL DUST oil mist separators are constructed for cleaning the air from the oil mist, polluted with dust, arising during various production processes. Particularly, they are recommended for removal of vapours of the cooling-lubricating liquid, used in metal machining such as grinding or milling. Separators are manufactured in three sizes varying in efficiency: MISTOL DUST-1000, MISTOL DUST-2000 and MISTOL DUST-5000.

### Structure

MISTOL DUST separator consists of:

- housing of steel sheet,
- radial fan – housing of cast aluminium,
- pre-filter,
- pocket filter – class F8,
- decompression chamber with a blast screen,
- silencer at the fan outlet,
- differential pressure control – indicating excessive flow resistances of the pocket filter,
- control unit,
- oil drainage valve.

As the first stage, the polluted air flows into the expansion chamber, where the largest oil drops are captured on the blast screen. Subsequently, the air passes the net filter and further

through the pocket filter (filtration medium: spunbond resistant to oil/fatty pollutants). The separated oil is draining into the oil sedimentation chamber. Underneath the chamber is located an oil drainage valve, to discharge the accumulated oil from the chamber, further into a randomly chosen container placed under the device. Additionally, there is a revision cover to clean the expansion chamber.

### Operational use

As standard, separators MISTOL DUST-1000 and MISTOL DUST-2000 have three locations of air inlet. User can choose the most convenient location of the connection: on the back wall or on side walls of the device. Additionally, it is possible to change the direction of the fan outlet, simply by turning the fan on the suction flange or by turning the silencer on the outlet.

During the operation, separators do not need continuous supervision, except for switching ON and OFF.

The everyday maintenance consists in emptying the sedimentation chamber from the deposited oil, by opening the drainage valve. Under the device should be placed a suitable container.

In the course of operational use, it is important to monitor the replacement time of the pocket filter by observing the signal light, activated by pressure control of the filter.

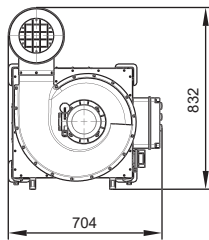
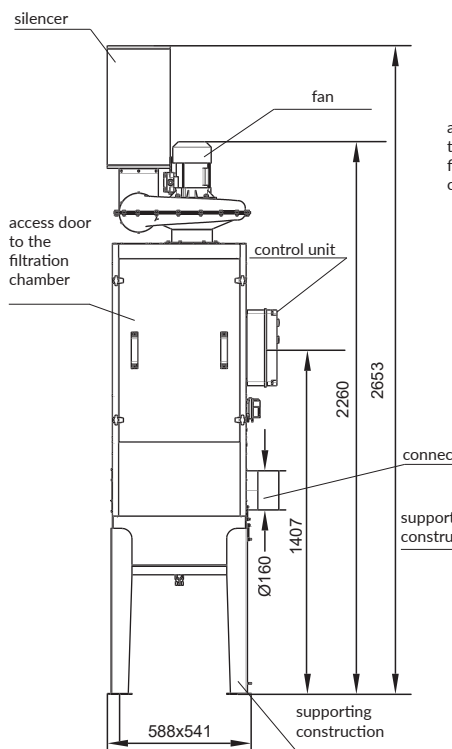
The device is not designed for continuous day and night operation, because of the excessive oil amount to be drained from the filter. The oil dripping time is estimated for 4–8 hours.

### Technical data

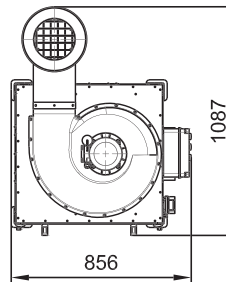
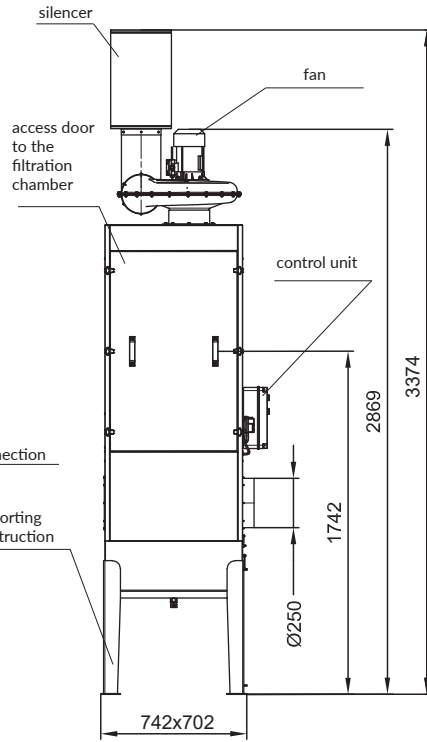
Type	Part no.	Maximum volume flow [m³/h]	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from a distance of:		Weight [kg]
						1 m	5 m	
MISTOL DUST-1000	800S13	1600	1650	230	0,75	69	64	104
MISTOL DUST-2000	800S14	2850	2050	230	1,5	72	66	134
MISTOL DUST-5000	800S15	8700	4200	3x400	5,5	75	69	563

# MISTOL DUST

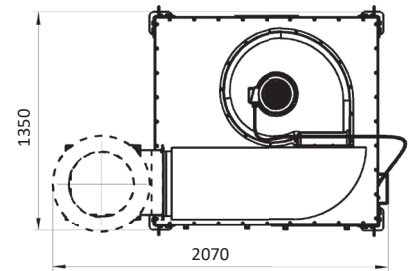
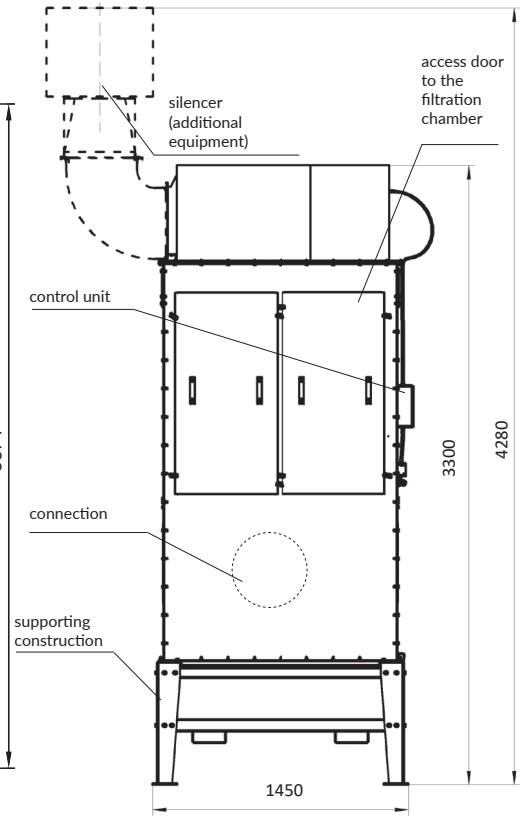
MISTOL DUST-1000



MISTOL DUST-2000

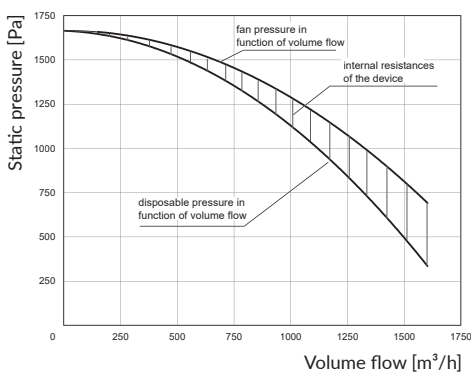


MISTOL DUST-5000

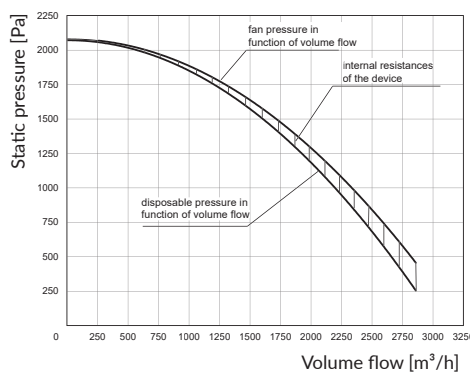


## Flow charts

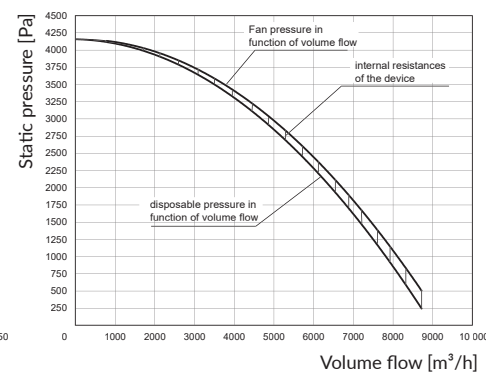
MISTOL DUST-1000



MISTOL DUST-2000



MISTOL DUST-5000



## Additional equipment (for MISTOL DUST-5000)

Reducer 400x400/Ø500 mm



Type

Part no.

ZR-UF

829R82

Silencer



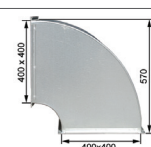
Type

Part no.

TK-UF

830T92

Elbow 400x400 mm



Type

Part no.

KL-UF

829K97