

MISTOL MIX – filtering unit with pocket-filter and HEPA-Filter



MISTOL MIX-1000



MISTOL MIX-2000



MISTOL MIX-5000

Purpose

MISTOL MIX oil mist separators have been developed for cleaning the air from the oil mist, contaminated with dust impurities, arising during various manufacturing processes. Chiefly, 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 MIX-1000, MISTOL MIX-2000 and MISTOL MIX-5000.

Structure

MISTOL MIX separator consists of subsequent elements:

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

During the first stage, the polluted air enters the decompression 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, (medium: spunbond resistant to oil/fatty pollutants). The last stage is the HEPA filter of efficiency 99,95%.

The separated oil drips into the sedimentation chamber. Under the chamber is installed an oil drainage valve, used for emptying the chamber of the oil, directly into the collecting container, placed underneath the device. The filtering unit is equipped with a revision cover for easy cleaning of the decompression chamber.

Operational Use

MISTOL MIX-1000 and MISTOL MIX-2000, as standard, have three locations of the air inlets. User can choose the most convenient location of the connection: on the back or on side walls. Moreover, it is possible to change the position of the fan outlet, simply by turning the fan on the suction flange or turning the silencer on the outlet.

During the use, separators do not require continuous supervision, except switching ON and OFF. The everyday maintenance consists in emptying the sedimentation chamber from the deposited oil, by opening the drainage valve. It is important to put an appropriate container under the device. In the course of operational use, control the replacement times of the filters by observing the signal lights, activated by pressure controls of the filters.

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

In order to monitor the filters state, the unit is equipped with control lamps (activated by pressure controls). During operation, a lamp can go on – it is a signal that the filter must be left for oil drainage.

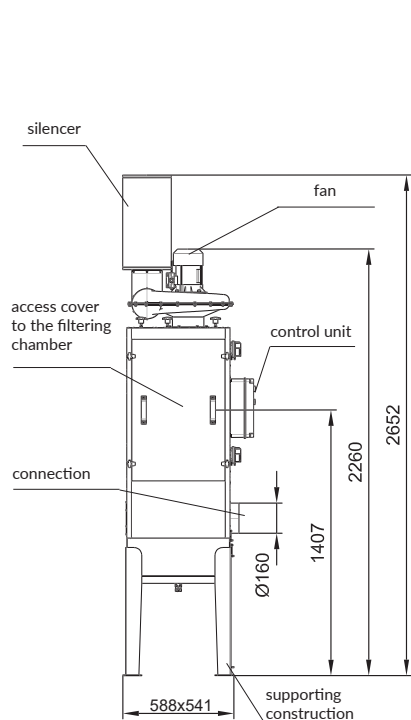
If after the drainage time the lamp is still on, the filter should be replaced.

Technical Data

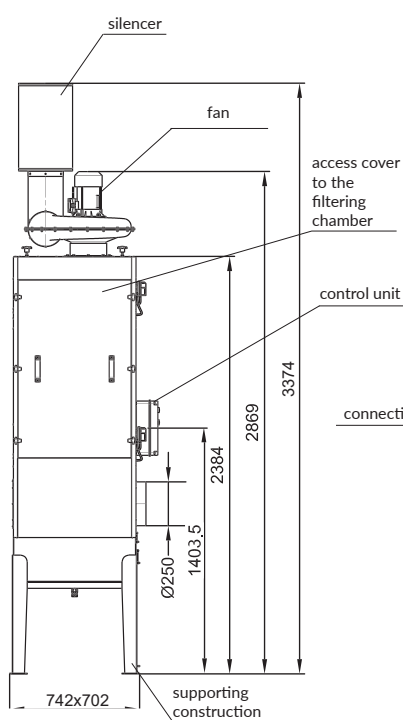
Type	Part no.	Maximum volume flow [m³/h]	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from a distance of:		Weight [kg]
						1 m	5 m	
MISTOL MIX-1000	800S20	1600	1650	230	0,75	69	64	104
MISTOL MIX-2000	800S21	2850	2050	230	1,5	72	66	134
MISTOL MIX-5000	800S22	8700	4200	3x400	7,5	75	69	660

MISTOL MIX

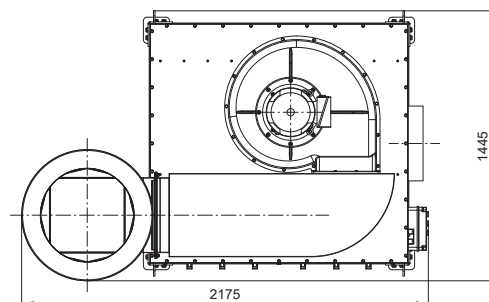
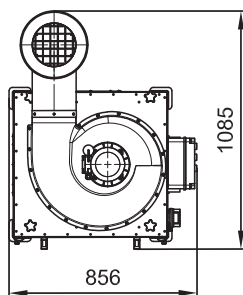
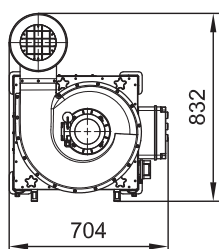
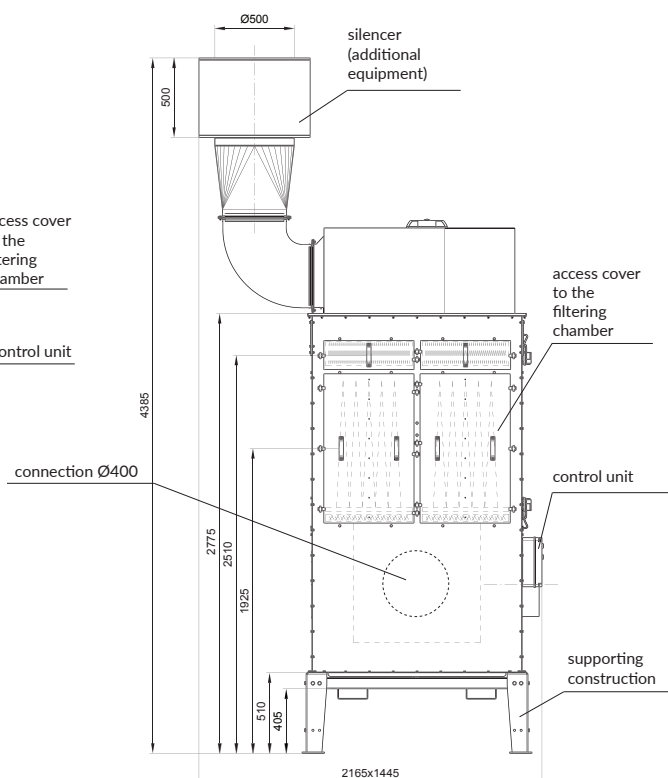
MISTOL MIX-1000



MISTOL MIX-2000

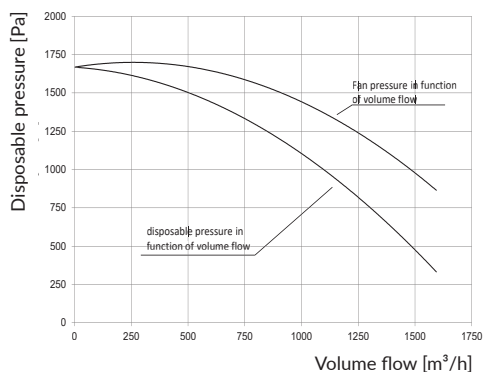


MISTOL MIX-5000

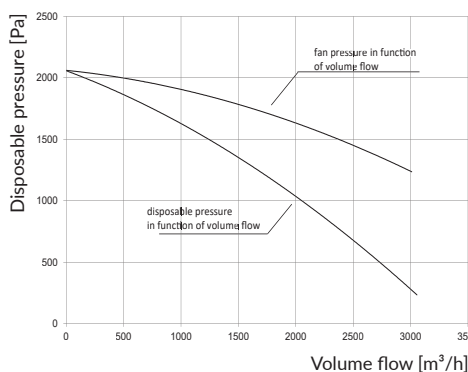


Flow charts

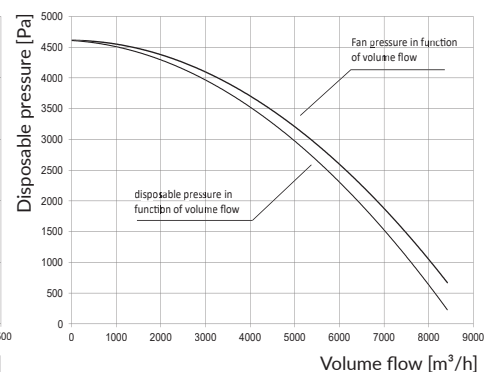
MISTOL MIX-1000



MISTOL MIX-2000



MISTOL MIX-5000






Additional equipment (for MISTOL MIX-5000)

Reducer 400x400/Ø500 mm

Silencer

Elbow 400x400 mm

	Type	Part No.		Type	Part No.		Type	Part No.
	ZR-UF	829R82		TK-UF	830T92		KL-UF	829K97