MISTOL-1000

MISTOL-2000

Application

MISTOL oil mist separators are meant for cleaning the air from oil mist arising during various production processes. They are especially recommended for oil particles removal from cooling-lubrication vapours, applied in machining (i.e. processing on lathe, milling, drilling). Separators are manufactured in three sizes varying in efficiency: MISTOL-1000, MISTOL-2000 and MISTOL-5000.

Structure

MISTOL separator consists of:

- filtration chamber – equipped with a net pre-filter and high-efficiency filter HEPA class H13,
- sedimentation chamber – equipped with connections for the oil-laden air and with a drainage valve for oil,
- radial fan with a silencer at the outlet,
- motor protective switch – short-circuit- and overload protection,
- supporting construction (for MISTOL-1000 and MISTOL-2000 supporting construction is concerned as additional equipment).

Contaminated air is submit to pre-cleaning by the net filter, subsequently streams through the HEPA filter, where the filtration media is a non-hygroscopic cardboard of glass-fibre. The separated oil drops into the oil sedimentation chamber. Underneath the chamber an oil drainage valve is located to discharge the accumulated oil, into a container placed under the device.

Operational use

MISTOL-1000 and MISTOL-2000 should be placed on a supporting construction, being additional equipment of the device. User can prepare on one's own a supporting structure, adapted for installing the separator in the requested height (in this case a supporting construction should not be purchased). Such situation can take place when User intends to direct the collected oil (from the sedimentation chamber) directly into the container of the processing machine. As standard, there are three locations for air inlet in the device. User can choose the most convenient connection location – at the back or on side walls of the device. Additionally, it is possible to change the location of fan outlet (simply by turning the fan on the connection flange).

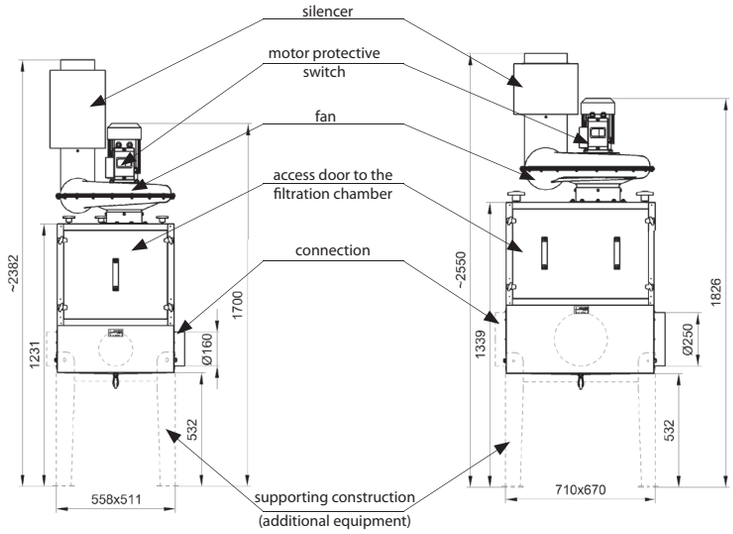
During operation, separators do not need any continuous supervision, except for switching on and off. The HEPA high-efficiency filter ought to be changed at the moment when the flow efficiency decreases, (usually they can work even throughout several years without replacement).

The everyday maintenance consists in emptying the sedimentation chamber from the deposited oil, by opening the drainage valve. Under the device should be placed an appropriate container or the oil should be drained directly into the container of the processing machine.

Technical Data

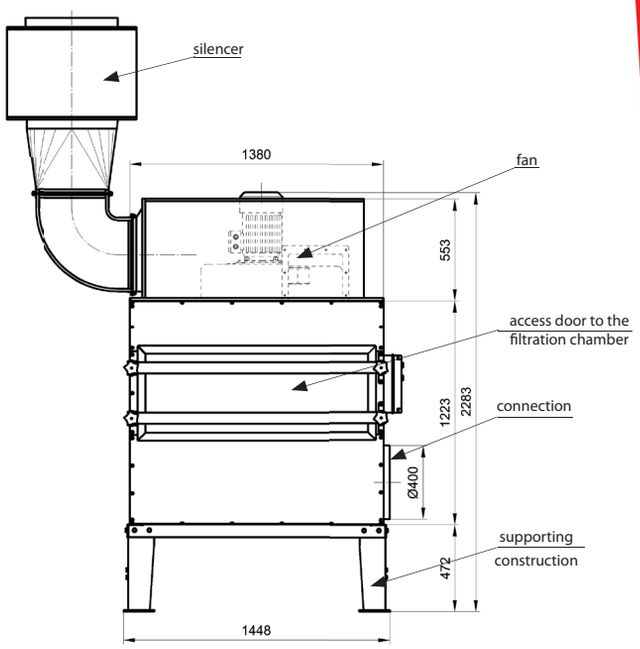
Type	Part.No	Maximum volume flow [m^3/h]	Maximum vacuum [Pa]	Supply voltage [V]	Motor rate [kW]	Acoustic pressure level [dB(A)] from distance		Weight [kg]
						1 m	5 m	
MISTOL-1000	800S07	1750	1600	230	0,75	69	64,5	90
MISTOL-2000	800S08	3100	1900	230	1,5	73,4	67,8	130
MISTOL-5000	800S09	7000	4200	3×400	6,5	77	72	430

MISTOL-1000



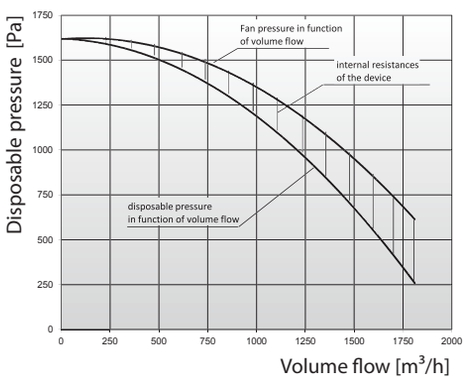
MISTOL-2000

MISTOL-5000

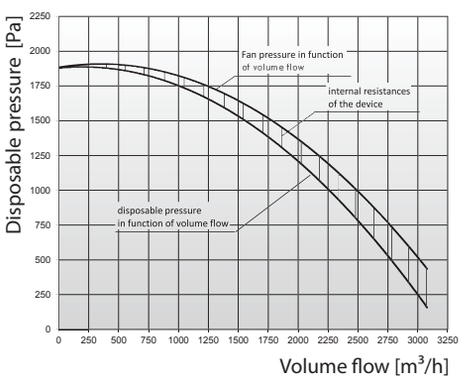


Flow charts

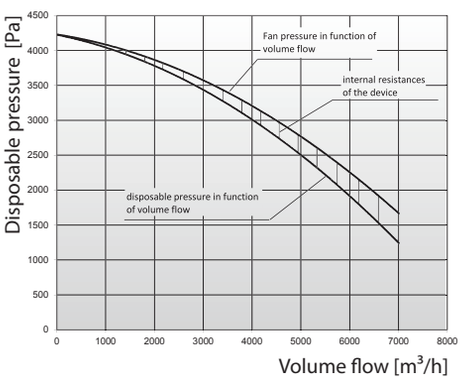
MISTOL-1000



MISTOL-2000

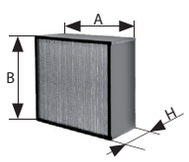


MISTOL-5000



Replaceable filter

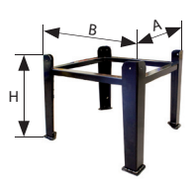
High-efficiency filter HEPA



Type	Part.No	Weight [kg]	Dimensions AxBxH mm	Quantity of filters in separator	Class	Filtration material	Purpose
MISTOL-1000 High-efficiency filter	838F88	10,5	457x457x292	1 sztuka	H13	Glass fibre of progressively growing density.	MISTOL-1000
MISTOL-2000 High-efficiency filter	838F89	18,8	610x610x292	1 sztuka	H13		MISTOL-2000
MISTOL-5000 High-efficiency filter	838F90	28	915x610x292	2 sztuki	H13		MISTOL-5000

Additional equipment

Supporting construction



Type	Part.No	Dimensions AxBxH mm	Weight [kg]	Purpose
MISTOL-1000-KW	841K50	511x558x630	18	MISTOL-1000
MISTOL-2000-KW	841K51	704x662x625	20	MISTOL-2000

Caution: In separator MISTOL-5000 supporting construction is a standard equipment.