



Aeroex Technologies Inc.

Oil Mist Collector

Model MF-560/1050



Installation & Service Manual

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Model MF-560/1050 Specifications

AEROEX – Oil Mist Collector

For highly effective separation of coolant and oil mists including smoke from metalworking machinery and oil reservoirs.

Consisting of:

Powdered coated galvanized steel housing.

Motorized impeller

Filter stages:

- 1st stage mechanical element
- 2nd stage demister
- 3rd stage fibre bed filter
- Optional 4th stage HEPA filter

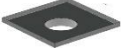
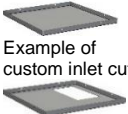

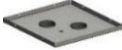




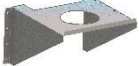



Specifications:

Model	CFM	Sound dB(A)	Machine Tool Enclosure Volume ft ³	Motor hp	Voltage RPM	Amps	RPM
MF-560	500- 600	68	250	0.75	115/1/60 220/1/60 230/460/3/60	4.9 2.5 1.6/0.93	2810
MF-1050	900- 1100	69	350	1.5	230/460/3/60	3.6/1.6	2810

Installation Instructions

- Mount mist collector level.
- Mist collector must be mounted higher than suction point. Fluid drains down and back through suction inlet.
- Units can be mounted directly on top of machines, on a post or on the wall.
- Ensure that there is free space to change filters.
- Minimize the length of ducting to avoid air flow losses.
- Metal ducting or flexible hose can be used.
- Do not locate suction intake on machining applications in direct line of the cutting spray.
- Connect electrical power. (Consult a qualified electrician)
- Check motor direction as per arrow on motor. (230/460 volt only, see page 5)

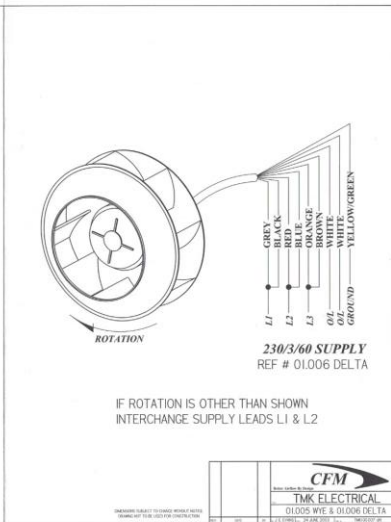
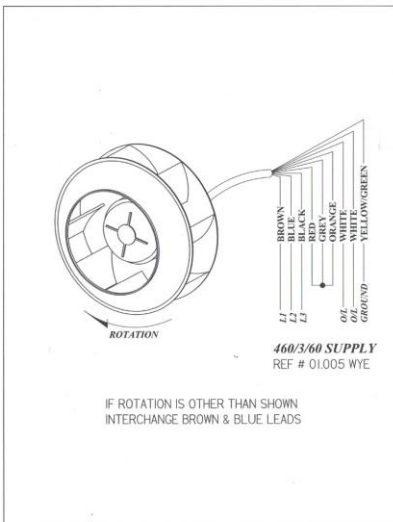
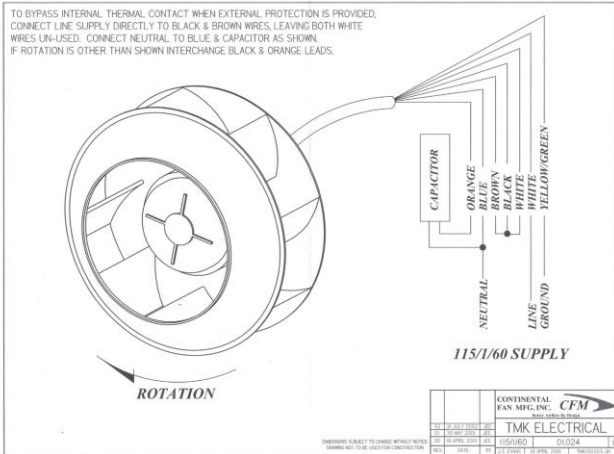
Mounting Options

	Standard Base (included with unit) Suction hose not required for direct mount on cnc machine.	MF10-B001	 Example of custom inlet cut.	Blank Base Plate For custom inlet cut on site	MF10-B008
	Stand Height 13" Suction hose required	MF10-B002		Optional Base Plates (a) 4" Ø inlet (b) 4" Ø inlet with oil drain nipple (c) 2 x 4" Ø inlets with oil drain nipple (d) 6" Ø inlet with oil drain nipple	MF10-B009 MF10-BD09 MF10-BD11 MF10-BD10
	Side Mount	MF10-B003		Floor stand Adjustable 6 – 8 ft Galvanized steel	MF10-B219
	Pedestal Height 8"	MF10-B004		HEPA Filter Kit 4" c/w HEPA filter 95% @ 0.3 µm	MF10-A020
	Wall Mount Suction hose required	MF10-B006		HEPA Filter Kit 8" c/w HEPA filter 99.9% @ 0.3 µm	MF10-A021
	Suspension Kit Suction hose required	MF10-B007		Tsunami Mounts to existing flange	MF10-B012

Electrical Connection

Electrical installation must be performed by a qualified electrical technician and comply with applicable local codes. The motor must have overload protection set to the correct motor amperage. Internal thermal overload (white wire) **must** be connected. Most electrical technicians/contractors will be able to supply motor starter panel or install motor contactor in cnc machine electrical panel.

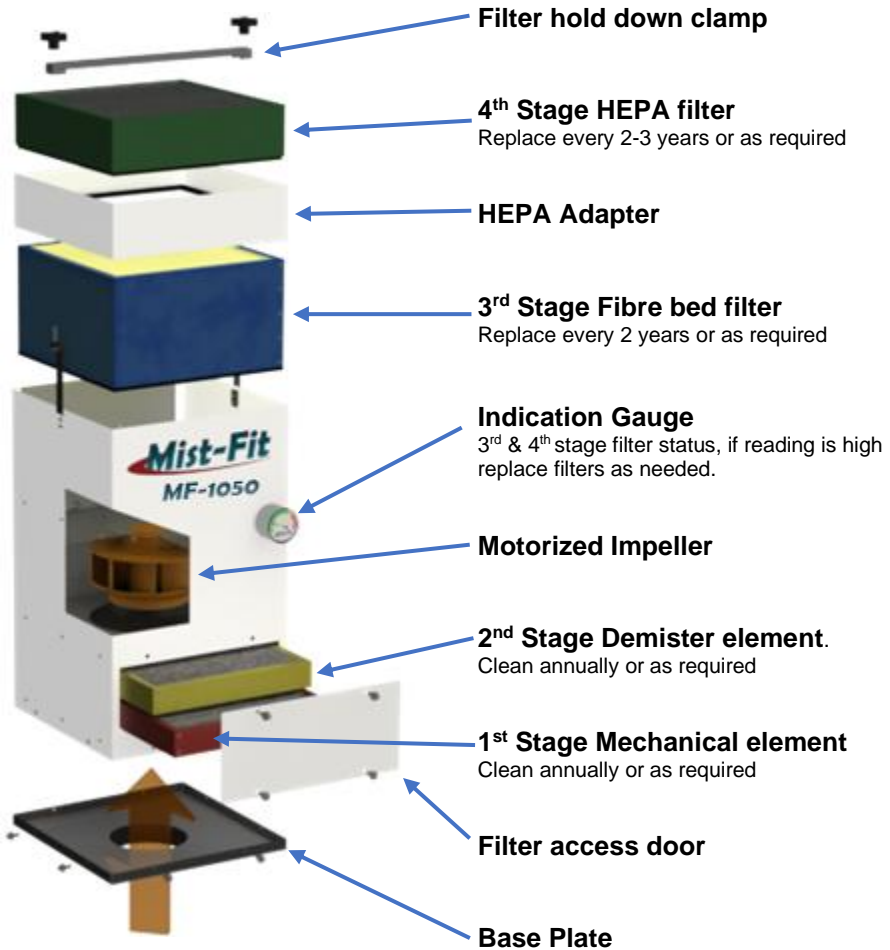
Direction of rotation (3 phase only): Remove 3rd stage filter. Note the direction of rotation arrow on motor mounting plate. Start unit and inspect the direction of rotation of the impeller fan. If the rotation is opposite the arrow, switch the electrical connections of L1 and L2. Recheck.



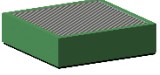
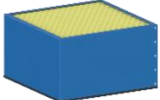

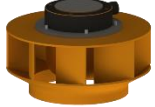
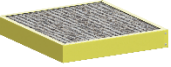
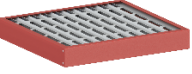
Maintenance

The mist collector can operate for long periods without maintenance. The maintenance period will depend on the type of oil, coolant & debris in air stream. Inspect the unit after 3 months, 6 months & 1 year to establish the maintenance interval.

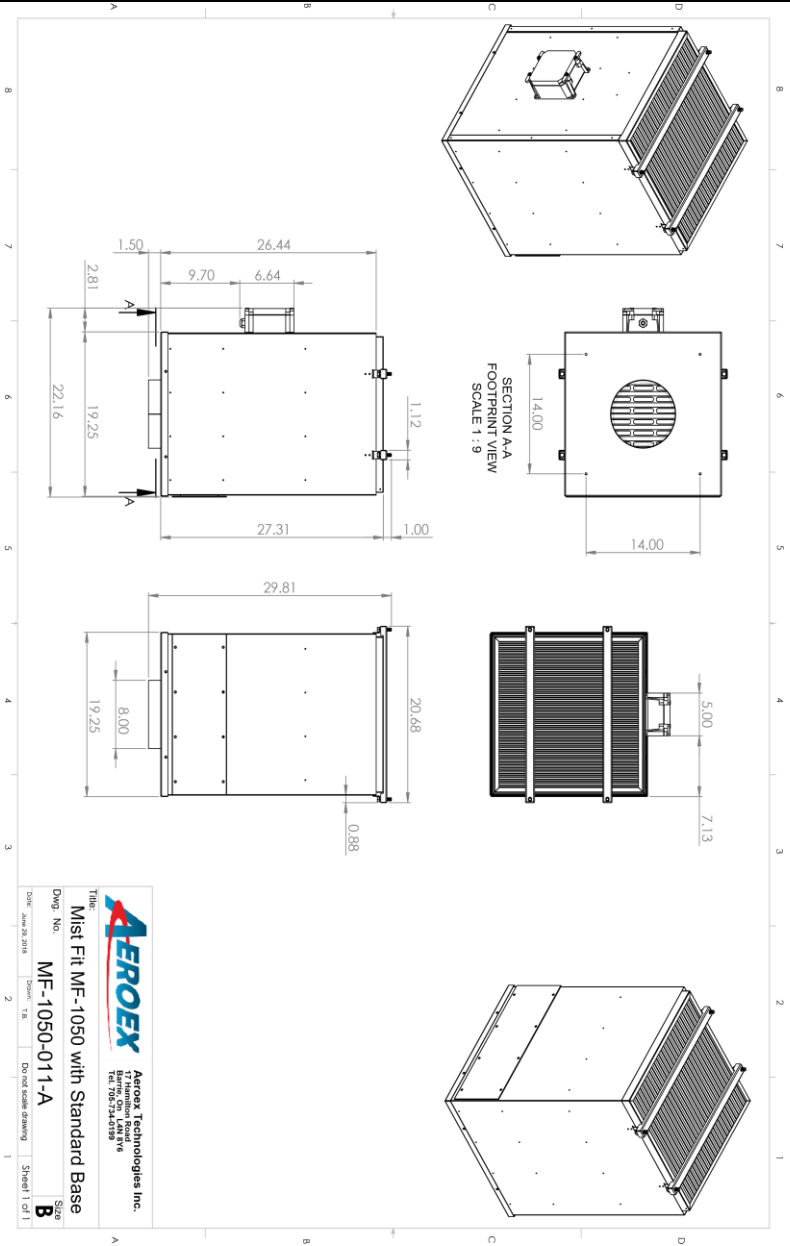
The 1st stage mechanical separator elements and the 2nd stage demister filter to be manually cleaned/washed.



Parts

	<p>4th Stage HEPA filter Replace every 2-3 years or as required</p>	<p>MF10-F004 95% @ 0.3 μm</p> <p>MF10-F005 99% @ 0.3 μm</p> <p>MF10-F009 Odor-Rid</p>
	<p>3rd Stage Fibre bed filter Replace every 2 years or as required</p>	<p>MF10-F007</p>
	<p>Indication Gauge (a) MF-560 (b) MF-1050</p>	<p>(a) MF10-G002 (b) MF10-G003</p>
	<p>Motorized Impeller</p>	<p>TMK250-2-11 (MF-550 115/1/60) CAP40M-400V (Capacitor)</p> <p>TMK250-2-12 (MF-550 220/31/60) CAP10M-400V (Capacitor)</p> <p>TMK250-2-34 (MF-550 230/460/3/60) TMK280-2-34 (MF-1050 230/460/3/60)</p>
	<p>2nd Stage Demister element. Clean annually or as required</p>	<p>MF10-F002</p>
	<p>1st Stage Mechanical element Clean annually or as required</p>	<p>MF10-F001</p>

Dimensions



Aeroex Technologies Inc.
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Title: Mist Fit MF-1050 with Standard Base
DWG. No.: MF-1050-011-A
Scale: B
Sheet: 1 of 1

Date: 26.08.2018
 Drawn: T.B.
 Checked: S.H.
 Dwg. No. 26.08.2018

Warranty

Limited Warranty

Aeroex warrants the original purchaser against defects in material and workmanship for five (5) years from date of shipment.

Filters are consumable items and are only warranted to be free of manufacturing defects at time of delivery.

Equipment, parts, or accessories manufactured by others including electric motor, fans and control components carry the guaranty of the manufacturer only.

Any part which is determined to be defective in material or workmanship and returned to an authorized service location, as Aeroex Technologies designates, shipping costs prepaid, will be repaired or replaced at Aeroex Technologies option.

Excluded from the foregoing guarantee are damages caused by ordinary wear and tear, erosion or corrosion, misuse, abuse, or improper handling by the purchaser or any third party.

Aeroex Technologies makes no additional warranties, expressed or implied, whether of merchantability, or otherwise, other than stated above. AEROEX shall not be responsible for any indirect, special or consequential damages, nor for any other claim arising out of the sale, rental, or use of its equipment. AEROEX shall not be liable for special or consequent damages in case of any failure, claims for labour, loss of profits, repairs, alterations, or other expenses incidental to replacement of defective parts or return of the equipment. The Purchaser's sole remedy shall be as stated above.

Aeroex Technologies will make good faith effort for prompt correction or adjustment with respect to any product that proves to be defective within warranty.

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