

MZ Series – Filter Type Mist Collector



MZ Series mist collectors from Amano are effective and efficient mist filtration solutions, providing a more productive work environment by reducing coolant and machining oil mists. MZ Series provides high performance technology and easy, predictable maintenance.



Filter Type



Water soluble oil mist



Max. airflow

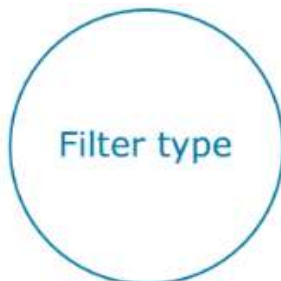


Premium efficiency
motor

Features:

ENERGY SAVING, EASY MAINTENANCE AND NO TOOLS NEEDED IN FILTER REPLACEMENT

- Powerful just with a smaller motor in size
- High capturing efficiency 99.7 %
- Minimal consumables
- In a minute filter change, Quick and easy maintenance
- Use washable filter provide lower maintenance costs.
- Reduces risk of mist related hazards



Minimum consumables and washable filter

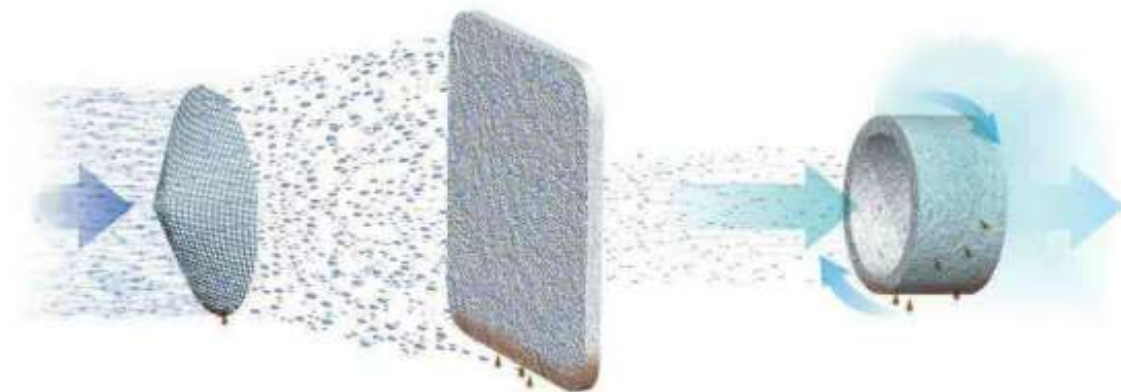
Consumable parts are now just the primary and secondary filters so you can cut down on running costs. The primary and secondary filters can also be washed.



Washable filter



3 Layer Filter System



1.DIFFUSING CONE

Diffusing cone controls the airflow while diffusing air containing mists against the entire area of the primary filter. Sudden reversal of the airflow provides "collision effect," to efficiently separate cutting chips from large spray particles.

2.PRIMARY FILTER

Relatively large mist particles in the air are captured at the entire surface of the filter, which has an ideal perforation to provide balanced operation between filter performance and cycles of filter replacement.

3.SECONDARY FILTER

Located at the back of the fan, the secondary filter rotates in sync with the fan, filtering and condensing fine mists, followed by centrifugal separation. The collision effect brought by high-speed rotation of the secondary filter is high enough to separate fine mists.

One Handed, One-Minute Replacement of Filters



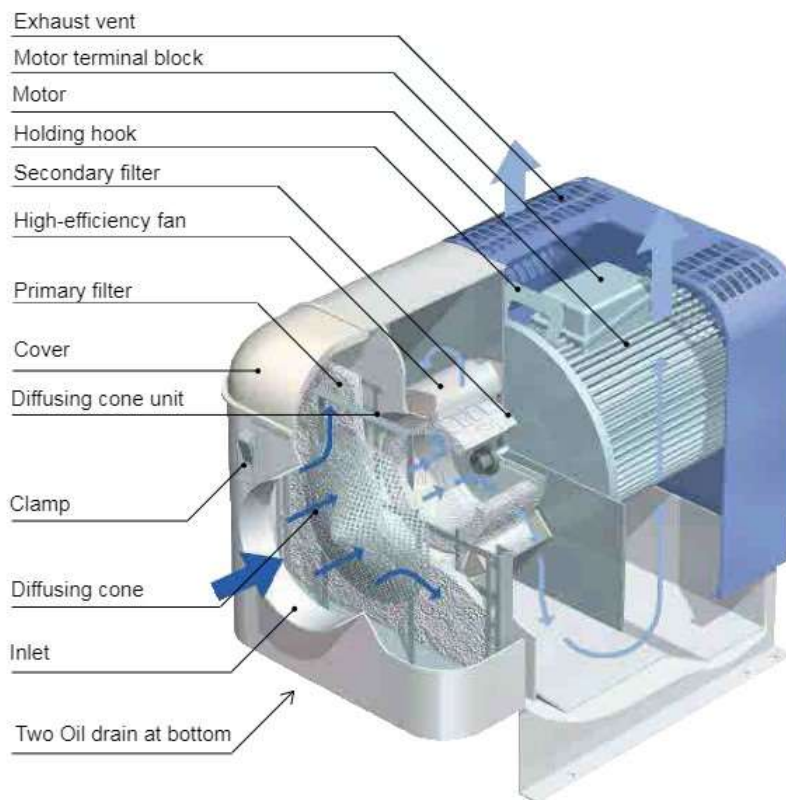
1. Release the 2 clamps and open the cover.

2. Remove the diffusing cone unit

3. Remove the primary filter and replace it with a new one.

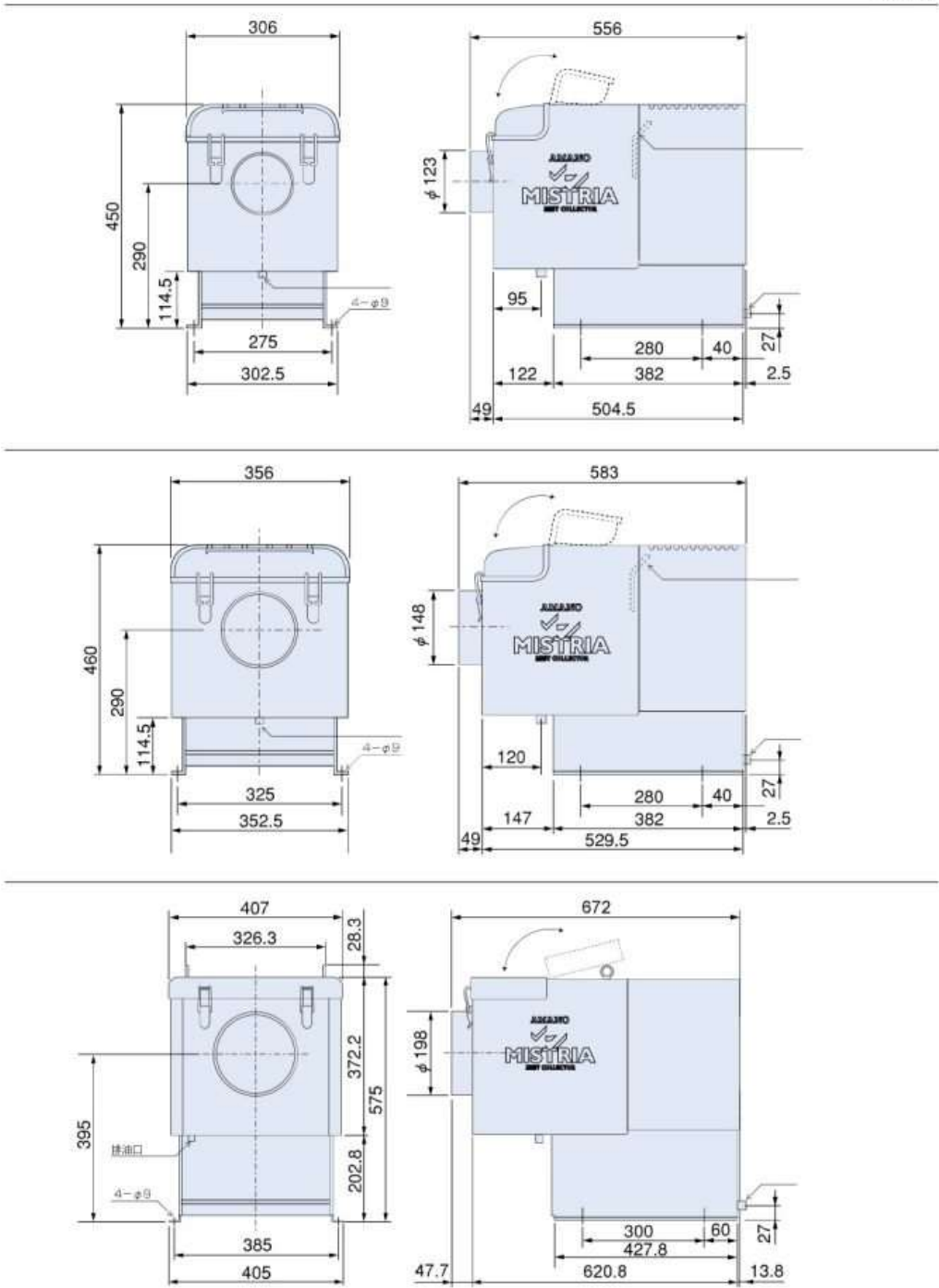
4. Remove the secondary filter inside the fan section and replace it with a new one.

Internal view



Dimensions

(mm)



After Filter Option

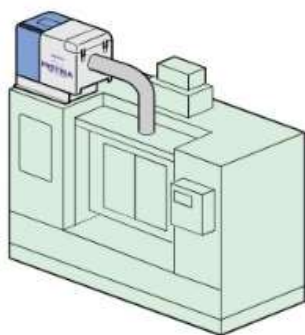


Install and use the optional after filter when sucking oil mist of highly concentrated water soluble mist.

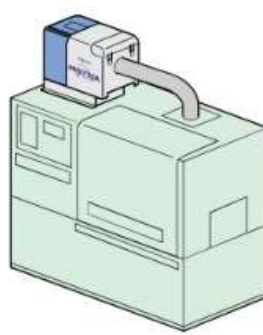
APPLICATION



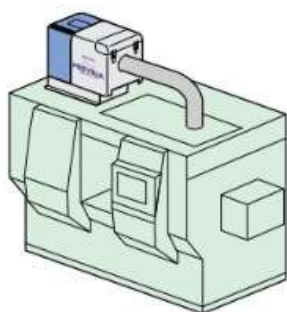
- MACHINE TOOLS - NC, CNC Lathes, General-Purpose Lathes, Machining Centers, NC Mills, Electric Discharge Machine, Thread Grinding Machine, Internal Cylindrical Grinding Machine.
- SPRAYING JOBS - Washing, Anti-Corrosion, Oil Film Application, Cooling
- OTHERS - Oiling Bearings on Large Machines, Drawing die process, Bleeding Pneumatic Cylinders, Lens Chamfering, Lens Polishing, Etc.



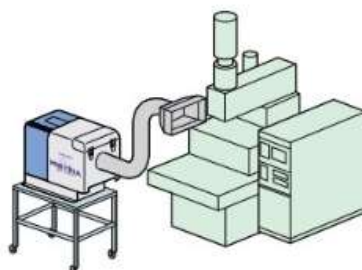
NC lathe machine



General-purpose lathe machine



Machining center



Electric discharge machine

SPECIFICATION

Particular	Unit	MZ-10	MZ-15	MZ-30
Power Supply	Volt	220	220	220
Frequency	Hz	60	60	60
Phase		3P	3P	3P
Output	kw/hp	0.4/0.5	0.75/1.0	1.5/2
Max Airflow	m ³ /min	10	12.5	20
Max. Static Pressure	kPa	1.3	1.3	1.75
Suction Port Ø	mm	123.0	148.0	198
Dimension (W x H)	mm	306x556x450	356x583x460	407x672x575
Weight	kg	27	35	60