TIME & ECOLOGY
AMANO

ISO 9001:2000 SGS ISO 14001 SGS
Hosoe Facility in JAPAN

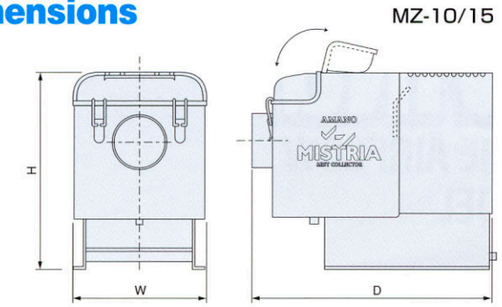
MISTRIA MZ series
MIST COLLECTOR

ENERGY-SAVING
SMALLER ENERGY YET THE SAME AIRFLOW
AS DOES A HIGHER POWER MODEL

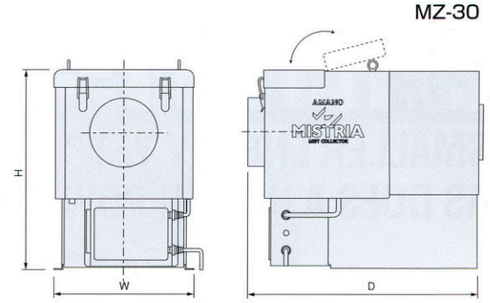
AGE OF NEW
ENVIRONMENTAL-AWARENESS
For an age when a company is rated on its environmental awareness!

Dimensions

MZ-10/15



MZ-30



SPECIFICATIONS

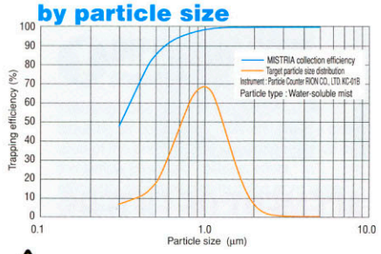
MISTRIA Models listed below deliver the same airflow as do our prior models, with much smaller power consumption

Model		MZ-10	MZ-15	MZ-30
Power (Volts, Hertz)		200 volt 3-phase on both 50/60 Hz (220 volt 3-phase power can only use 60 Hz)		
Output (kW)		0.4	0.75	1.5
Maximum capacity (m^3/min)	50Hz	8.3	10.5	20 (Inverter control)
	60Hz	10	13	
Maximum static pressure (kPa)	50Hz	0.9	1.0	1.8
	60Hz	1.3	1.4	
Noise (dB[A])		72±2		
Primary filter		Polyester (1 sheet)		
Secondary filter		Polyester (1 sheet)		
Collecting efficiency		99.7% (soluble oil mist of 2μm or larger)		
Collecting mist		Water soluble mists (use the optional after-filter for oil mists)		
Suction temperature		Max. intake temperature 75℃ (Temperature around the motor should not exceed 40℃)		
Power cord		Option (4-core)		
Suction inlet diameter (mm)		ϕ123	ϕ148	ϕ198
Oil drain		16mm dia. (two locations), no threads (with hose inserted)		
Standard accessories		Antivibration rubber 4 pieces spare filters 2 sets (two each of primary and secondary filters) oil drainage hose (5 meters long and 15 mm in diameter) 2 hose clamps		
Size W×D×H (mm)		306×556×450	356×581×460	407×685×575
Weight (kg)		27	33	63
Paint color		JPMA J11-833 (main unit Y25-90A, exhaust box U77-60L)		

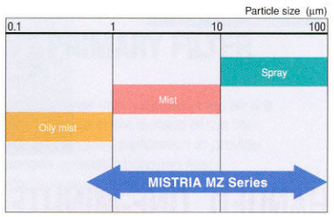
* Listed are for standard units, and those may change, depending on custom requirements.

Amano self declares that the models are in compliance with CE Specifications for low voltage directives (only for MZ-10/15) Other standards apply accordingly but with no specific approval.

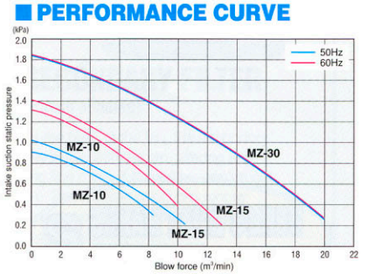
Capturing efficiency by particle size



Scope of application



PERFORMANCE CURVE



For Your Safety

- Read OPERATION MANUAL very carefully prior to operation of your mist collector.
- Use this machine for the purpose of suctioning in water-soluble mist and oil-based mist.
- If suctioning in oily mist, please install the after-filter (option).
- DO NOT suck the following materials:
  - Inflammable material: Gasoline, thinner, benzene, kerosene, paint, etc.
  - Powdery dust : fumes
  - Igneous materials : cigarette butts, ashes, etc.
  - Others : water, steam and chemicals
  - Oil and mist of low flush point (80˚C or less).
- DO NOT use your mist collector at or near a place where inflammable, explosive or corrosive fumes, smokes or gases can stay stagnant.
- Always secure GND for protection from electric shock.
- Make sure that your pipe work is straight not to allow oil to accumulate, with a proper diameter and shortest length to your mist collection.
- Always turn off the power befor performing inspections or riplacing filters and other parts. Always make sure that fan has completely stopped rotating befor starting work.

Please direct any questions to:

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CAT-920501
K8706Y10-2003.10

ENERGY-SAVING

SMALLER ENERGY YET THE SAME AIRFLOW AS DOES A HIGHER POWER MODEL

MZ-10

Just compare
The motor is smaller yet the power is greater in this class

MZ-10
Maximum airflow／8m³/min
(0.4kW)

MZ-15
Maximum airflow／13m³/min
(0.75kW)

MZ-30
Maximum airflow／20m³/min
(1.5kW)

* Airflow above are at 60Hz

HERE'S WHAT MAKES DIFFERENT 1 — THE MORE YOU USE MISTRIA - THE MORE YOU SAVE!

■ Powerful just with a smaller motor in Size! (in-house comparison)

An innovative fan developed for high-efficiency provides the same powerful airflow as do our prior models of 0.75KW models and MZ-10 (0.4KW) models, saving much more energy than before. The smaller motor yet gives the same airflow to capture mists.
And you can save power costs.

■ Minimum consumables

(in-house comparison)

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 reused just by washing them.

HERE'S WHAT MAKES DIFFERENT 2 — ONE HANDED, ONE-MINUTE REPLACEMENT OF FILTERS

Easy Maintenance, No Tools Needed

Even points located higher on the unit such as the top machine section can be serviced.

- Filter replacement without removing the duct
- So easy that anyone can do it.
- Easy access as the cover opens wide
- No screws or parts to lose

1. Release the 2 clamps and open the cover.

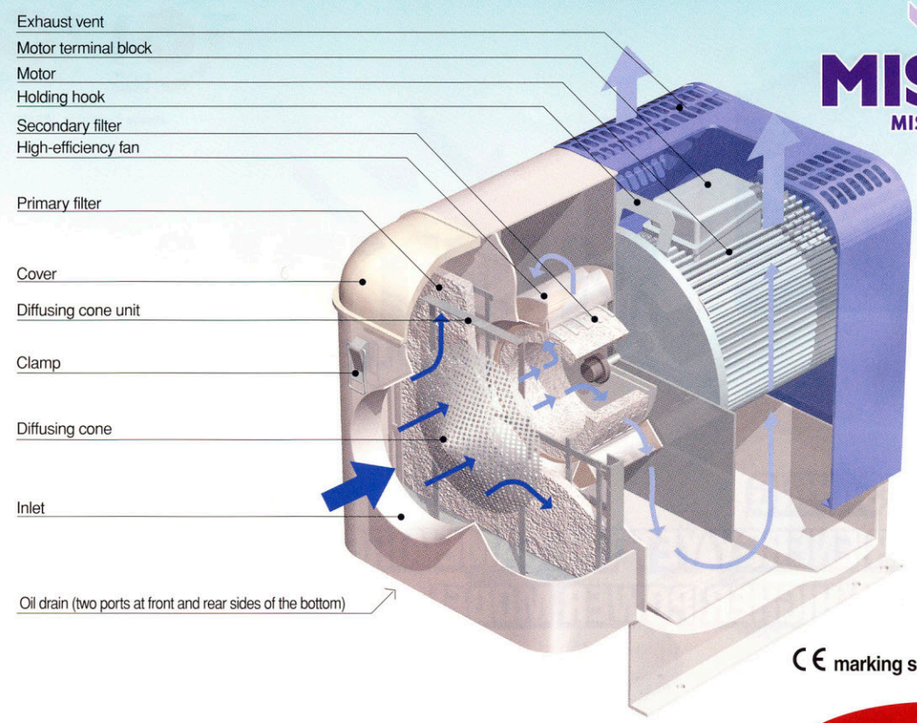
2. Remove the diffusing cone unit

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

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

Just 15 seconds if only replacing the filter.

START — 5 seconds — 10 seconds — 15 seconds

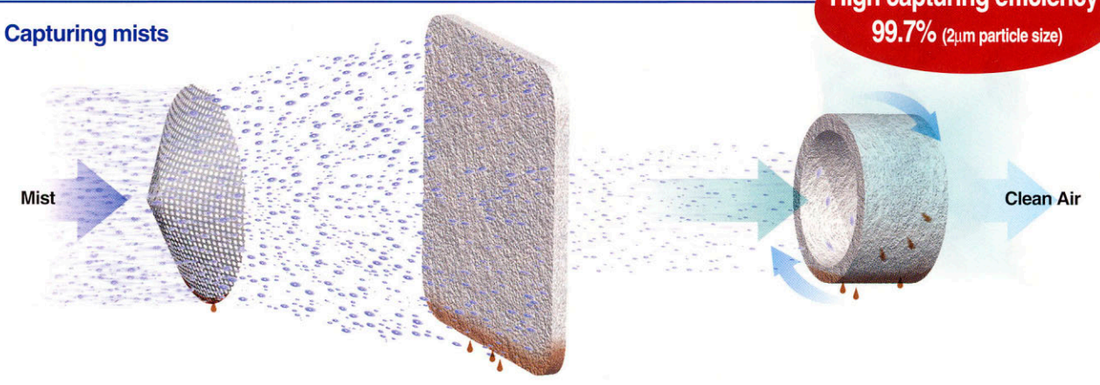


MISTRIA
MIST COLLECTOR

CE marking support (except MZ-30)

Capturing mists

High capturing efficiency
99.7% (2μm particle size)



1 DIFFUSING CONE (Patent pending)

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.

Reusable by washing with water

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.

Reusable by washing with water

3 SECONDARY FILTER (Patent pending)

Located at the back of the fan, the secondary filter rotates in syc 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.

■ Afterfilter (Option)

Install and use the optional afterfilter when the sucking of oil mist of highly concentrated water soluble mist is required.

■ APPLICATIONS

- MACHINE TOOLS
  NC, CNC lathes, general-purpose lathes, machining centers, NC mills, mills, electric discharge machine, thread grinding machine, internal cylindrical grinding machine.
- SPRAYING JOBS
  washing, anticorrosion, oil film application, cooling
- OTHERS
  Oiling bearings on large machines, drawing die process, bleeding pneumatic cylinders, lens chamfering, lens polishing, etc.