



D-MIST Series

BAFFLE AND MEDIA MIST COLLECTOR

Works :
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AIR PEL **TECHNIC**
BREATHE GREEN

D-MIST

CLEAN AIR IS OUR MISSION



The AIRPEL D-MIST® Advantage

AirPel is the most recognized and trusted name for effective removal of mist and smoke within the metalworking industry. Our mist collection technologies have been cleaning the air and recycling machine fluids for companies around the India for over Twenty-five Years. The AirPel D-MIST is a self-contained mist collector that can be mounted on floor near machining centre or mounted remotely connecting a single or multiple machines with ducting.

Filter Technology and Performance.

- The AIR PEL D-MIST features proprietary, state of art coalescing filter media technology. Our oil mist separators have been optimised with scientific procedures. Their effectiveness
- Our high-grade C-VORTEX Mechanical Separators are extremely efficient with a separating rate of 99.999 % and also maintenance-free as they clean themselves.
- The airflow rate is always perfectly matched to the requirements due to digital device monitoring and continuous fan control as a standard.
- You have special demands or use a special process – we have a suitable extraction system. And if not, be sure that we

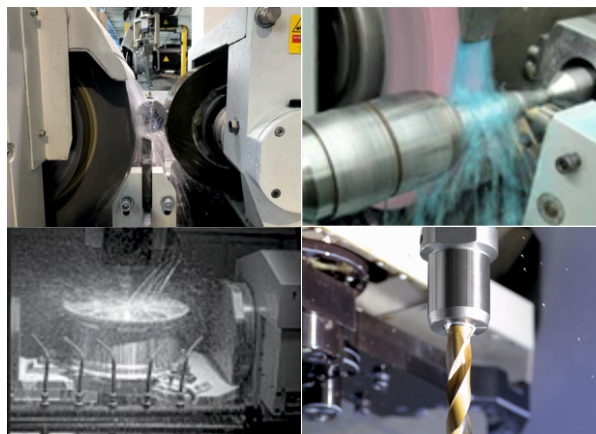
The Right Solution

Different processes and fluids create a variety of contaminates and challenges. It is imperative that the right technology is applied to achieve a solution that is both effective and efficient. The AIRPEL portfolio includes both Baffle & media filtration and electrostatic precipitator (ESP) technology. Our application engineers will ensure you receive the solution that is right for your application. We don't force fit customers to our products, we let the plant objectives and application needs drive us to the right solution.

Technical Expertise. AIR PEL mist collection products have been protecting facilities from metal working fluids for over 25 years. Our application engineers and technical experts are ready to solve your unique application needs.

Easy Service and Maintenance. The AIRPEL was designed with service and reliable operation in mind. Tool-free filter change and simplified filter removal are just a few features that will save you time and money associated with maintenance and operation.

Flexible Configurations. Each AIR PEL mist collector is engineered to your specific requirements. From filter media selection to the orientation of the inlet, the flexibility saves time and money during installation while providing optimal performance in your plant.



	Micron Scale (µm)	0.1	0.3	1.0	3.0	10.0	100.0
CAN BE SEEN BY:							
	SCANNING ELECTRON MICROSCOPE						
	OPTICAL MICROSCOPE						
	VISIBLE TO NAKED EYE						
Water Soluble Coolants and Emulsions							
Straight Oils							
Oil Smoke							

AIRPEL MEDIA MIST COLLECTION SOLUTIONS

AIRPEL ELECTROSTATIC PRECIPITATOR SOLUTIONS

The D-MIST features a three stage filtration process that progressively reduces the mist concentration resulting in greater than 99% reduction in mist concentration.

Integral Blower Module Features motorized impeller with speed control for precise airflow adjustment. Blower and controls are prewired with a single external

Auto Flow (optional) Measures air flow and the fan automatically adjusts to maintain a specified target as process or filter pressure drop changes.

Push Button Controller Visual indication of system status and easy to understand operation. 24VDC wiring provides additional layer of product safety

Heavy Duty Construction Heavy gauge, steel construction with powder coated finish inside and out creating a durable and reliable product.

Oil Drain Sump conical sump with drain plugs on left side of product to collect and recover fluid.



Stage 3 Safety After-filter Available in ASHRAE 95% oil mist rated filter or HEPA configurations. Removes the remaining small concentration of fine particulate.

Stage 2 Primary Filter Engineered Honey Comb filter porous size depend based on application parameters.

Stage 1 C VORTEX - Filter Baffle type Own designed pre-filter reduces mist concentration and removes coarse contaminate such as large droplets and metal chips.



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D-MIST HIGH PERFORMANCE UNIT - FOR GRINDING MACHINES (DRY WHEEL DRESSING AS WEL AS WET CONTINUES OPERATION)

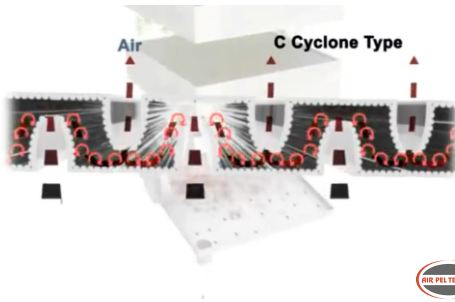
- ✓ **CENTERLESS GRINDING MACHIENS** ✓ **GANG GRINDING MACHINES**
- ✓ **SURFACE GRINDING MACHINES** ✓ **CYLINDRICAL GRINDING MACHINES**
- ✓ **THREAD GRINDING MACHINES**

D-MIST - The Premier range long life unit of our Emulsion Separators ready for connection is particularly suitable for the separation of water-based aerosols such as lubricants or spraying mist. Optionally, the unit can be fitted near the cnc machines

CLEAN ENVIRONMENT - ALWAYS

Tailored to your requirements

Our expertise concerning compact and flexible emulsion mist separators



Separating rates of up to 99.999 %

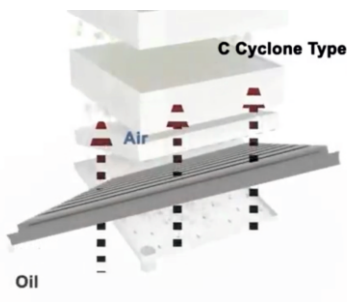
The C TYPE VORTEX Mechanical separation high-performance separating system achieves a very high separating efficiency with rates of up to 99.999 %.

✓ Lifetime warranty

We provide a lifetime warranty on the C-VORTEX Mechanical Separator Basic Elements and for the corrosion resistance of the housing.

✓ Proven functionality

The effectiveness and function of the Oil Mist Separator are proven by Cumulative Flow Diagram flow analysis.



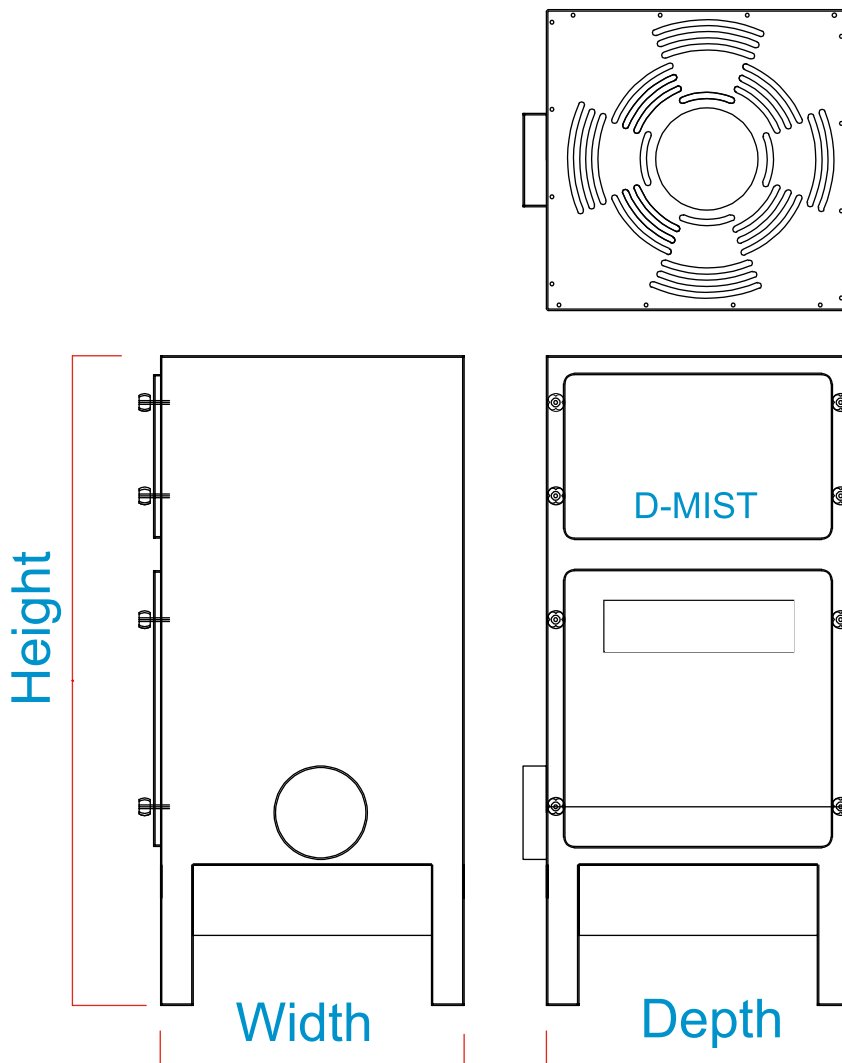
Energy-saving design

C TYPE VORTEX and the electric motor have an energy-efficient sustainable design and Energy costs of up to RS 50000 per year can be saved compared to conventional oil mist separators.

C TYPE VORTEX collection efficiency more than 98% and filter replacement costs of up to RS 20,000 - 2,00,000 per year can be saved compared to conventional oil mist separators

D-MIST Product Specifications -

SPECIFICATION	D-MIST 1100	D-MIST 2200	D-MIST 4200	D-MIST 6000	D-MIST 7800
ELECTRIC	3P+N 415V	3P+N 415V	3P+N 415V	3P+N 415V	3P+N 415V
KW	0.75	1.1	2.2	5.5	10.2
FLOOR SPACE	0.5 X 0.5 X 1.2 M H	0.65 X 0.65 X 1.2 M H	1.2 X 1.2 X 1.5 M H	1.2 X 1.2 X 1.5 M	1.2 X 1.2 X 1.5 M
SECTION DIA	160 mm -1 No	200 mm -1 No	250 dia -2 No	250 dia -2 No	300 dia -3 No
AIR FLOW	1250 CMH	2200 CMH	4000 CMH	6000 CMH	12000 CMH
FILTER CONFIGURATION	3 STAGE - 1	3 STAGE - 1	3 STAGE - 2	3 STAGE - 2	3 STAGE - 4



Options and Accessories -

- Safety after-filters • ASHRAE 95% OM • HEPA • Remote control packages • Manual speed control option
- 230V / 3PH / 60 Hz blower • Step down transformers • Machine mount kits • Floor mount extension legs
- Clean air discharge plenums • Drain loop trap • Sump pump • Custom paint colours • Magnehelic® gauges
- PM2.5 Sensor

AIR PEL TECHNIC WORK UNDER FOLLOWING SLOGEN (AIR PERMISSABLE EMESTION LIMITS) and is committed to providing clean air solutions that protect your employees, improve plant performance and enable you to realize your operating goals. Our commitment is backed by continuous investment in research, leading-edge technology and product development, our people whom are the most knowledgeable in the industry, and a product portfolio that is proven to deliver results. We have been solving problems for you, our customers across the india for over 25 years.

INDUSTRIAL APPLICATION:-

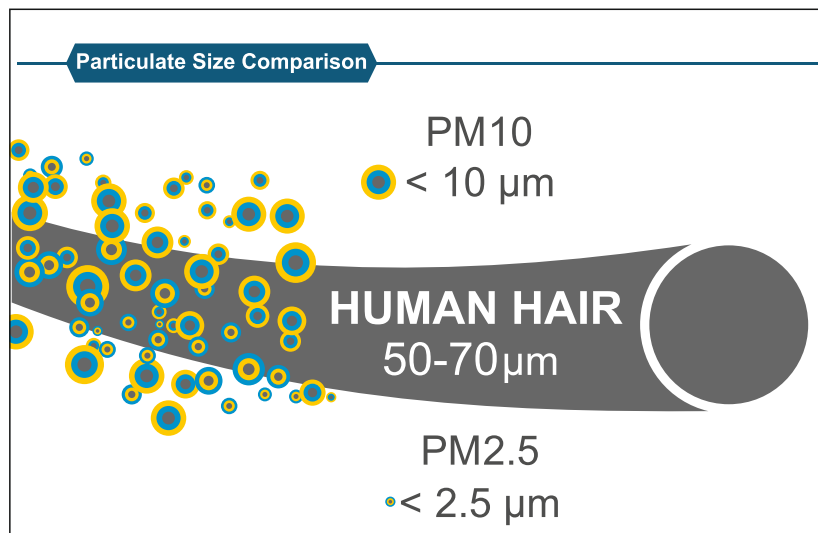
- Manufacturing
- Die Casting
- Extrusions
- Wet Grinding Metalworking
- Casting
- CNC Machining
- Cold Forming
- Boring
- Drilling
- Hobbing
- Sawing
- Milling
- Gear Cutting
- Heat Treating
- Lathes
- Screw Machining
- Soldering
- Wire Drawing
- Broaching
- Roll Forming
- Stamping
- Punching

Workplace Exposure Limits

With over 50 years of mist collection experience, our factory trained AIRPEL representatives and application engineers will assist in configuring a solution that meets your unique application needs.

Clean air for workers in industry

In food processing as well as machining processes on machine tools, high concentrations of PM10 aerosols are released. PM10 aerosols are airborne particles with a diameter of less than 10 µm. The comparison with a human hair illustrates the difference in size between a five-micrometer particle and a human hair. PM10 particles may occur in very high concentrations in certain processes. An air volume of a thousand cubic metres might contain PM10 concentrations of up to 500 grams



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