

Odour effectively absorbed by **mist-air odour neutraliser**

Pungent Smells:

Ally Thiol	CH ₂ CHCH ₂ SH	Strong garlic, coffee
Ammonia	NH ₃	Sharp pungent
Benzyl Thiol	C ₆ H ₅ CH ₂ SH	Unpleasant, strong
Diphenyl Sulphide	(C ₆ H ₅) ₂ S	Unpleasant
Chlorine	CL ₂	Pungent, suffocating
Chloro Phenol	C ₆ H ₄ OHCL	Unpleasant, penetrating
Crotyl Mercaptan	CH ₃ CHCH ₂ SH	Skunk like
Dibutylamine	(C ₄ H ₉) ₂ NH	Fishy
Diisopropylamine	(C ₃ H ₇) ₂ NH	Fishy
Triethylamine	(C ₂ H ₅) ₃ N	Ammonia, fishy
Ethylamine	C ₂ H ₅ NH ₂	Ammonia like
Butylamine	C ₂ H ₅ CHNH ₂ CH ₃	Ammonia, sour
1-Propanethiol	CH ₃ CH ₂ CH ₂ SH	Very strong onion
Pyridine	C ₅ H ₅ N	Nauseating, irritating
Sulphur Dioxide	SO ₂	Pungent, irritating
Toluene	C ₆ H ₅ CH ₃	Benzene like
Acetaldehyde	CH ₃ CHO	Pungent, fruity
Thiocresol	CH ₃ C ₆ H ₄ SH	Skunk, rancid
2-Methyl-2-Butanethiol	(CH ₃) ₃ CSH	Skunk, unpleasant

Putrid Smells:

Cadaverine	H ₂ N(CH ₂) ₅ NH ₂	Putrid, decaying flesh
1,4-Diaminobutane	NH ₂ (CH ₂) ₄ NH ₂	Putrid, nauseating
Dimethylamine	(CH ₃) ₂ NH	Putrid, fishy
Dimethyl Sulphide	(CH ₃) ₂ S	Decaying vegetables
Ethanethiol	C ₂ H ₅ SH	Decayed cabbage
Hydrogen Sulphide	H ₂ S	Rotten eggs
Indole	C ₈ H ₆ NH	Fecal nauseating
Chlorophenol	C ₁ C ₆ H ₅ O	Medicinal
Methylamine	CH ₃ NH ₂	Strong, ammonia
Pentanethiol	CH ₃ (CH ₂) ₃ CH ₂ SH	Unpleasant, putrid
Skatole	C ₉ H ₉ N	Fecal, nauseating
Thiocresol	CH ₃ C ₆ H ₄ SH	Skunk, rancid
Thiophenol	C ₆ H ₅ SH	Putrid, garlic like

Typical usage:

Landfill Sites, Stored Putrescence Waste, Wet Baling Plants, Waste Water Treatment Works, Sludge Treatment Works, Chemical Treatment Works, Abattoirs, Composting Works, Brickworks.

OK I am interested . . .

what do I do now ?

Contact Mist-Air today for more information, or send a drawing or sketch of your site and we will design the system and return the drawings with a quotation completely free of charge.

About Mist-Air

Mist-Air was formed in 1965.

We Design and Manufacture all our own products in our factory in Shropshire, Great Britain.

Our team of specialists ensure your system is built and installed as well as you would want it to be.

Mist-Air is not tied to a single design but can use the most cost effective system for your application.

Dedicated installation teams professionally install your system whilst the building is still operational.

Mist-Air manufactures:

- Mistral Power Washers & Wheel Washing Equipment for Industry & Agriculture
- Mistral Automatic Sprinkler system for yards and roadways
- Mist-Air Dust & Odour Suppression Systems
- Mist-Air Chemicals for Cleaning, Odour Neutralising & Insecticides
- Mist-Air Sonic and Air nozzles
- Mobile Dust and Odour Suppression Systems for Hire, short or long term
- Cooling Systems for hot buildings

✓ If Mist-Air design & install a system for you, we give you a money-back guarantee if you are not satisfied with it ! ✓

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www.mist-air.co.uk

mist-air[®]
dust suppression & odour absorption

airborne dust, odours
& flies a problem?

doesn't have to be...

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mist-air is simply a low cost system which produces large quantities of almost dry fog, which is propelled into the air, immediately suppressing rising airborne dust. Because it is so fine, it stays suspended in the air without sinking to the ground, so there is no wetting to floors, machinery, stock or personnel. You can walk in the fog without getting wet.

Fine airborne dust is attracted to the fog and the two combine and sink to the ground; but the floor stays dry.

Fog is directed towards the dust-producing areas and the constant bombardment of fog on the fine dust particles causes them to sink before they can get fully airborne. Delivering just as much or as little fog as you require for any given application.

The **mist-air** system is very controllable.

Individual areas can be selected when required. For instance, a single building may house a wood chipper, trommel, stone crusher, screen and conveyor, all of which may each be used at different times. With the **mist-air** system you can select one or more of the operating areas as required.

Even the smallest **mist-air** system can supply a small building, or several large buildings at the same time.

Any size of building or piece of plant can be accommodated.

The system is extremely flexible, allowing it to be easily expanded or moved. This is ideal for Companies that are expanding operations or moving into larger or newer premises at a later date.

mist-air is fitted with a chemical metering system for accurately delivering chemicals into the air, covering every inch of a building in seconds.

Quarries

Lines of stone conveyors of any length can be accommodated, i.e. throughout a quarry, killing dust as it drops from one belt to another. Outdoor shredders, trommels, hoppers, and screens, are also treated effectively.

The largest single building treated to date is a cement storage building 300m x 100m which constantly drops dry, crushed limestone 15 meters from overhead conveyors.

The **mist-air** system keeps the air clear, enabling crane drivers to see what is happening around them. When the system is switched off, visibility is immediately reduced to zero!



Site Perimeters / Landfill

mist-air provides fogging around site perimeters of landfill, composting and specialised treatment areas for odours and particulate treatment. Rapidly installed up to 5 km. in length.



Cooling

An additional benefit is that flash evaporation also cools the air in hot weather, dropping the temperature by up to 9°C.

Foundry men working next to furnaces etc., can have localised cooling, to make working conditions far more acceptable.



You have a site which has a dust problem. What are your options?

Negative Pressure & Dust Extraction

- ✗ Expensive to install. High running cost. High maintenance.
- ✗ Cannot accommodate all the dust producing areas associated with tipping, loading, crushing, screening, trommels & conveyors.
- ✗ Dust constantly drawn through the building towards the extractors which are normally mounted high to avoid machinery, so operatives have a constant stream of dust going past them.

Misting Lines in the Roof

- ✗ Poor distribution. As the mist slows down, the droplets join together causing wetting directly under the misting line.

Reciprocating Rotary Atomisers

- ✗ Expensive per fan unit. Limited to covering just a small localised area.
- ✗ Poor atomisation creates wet floors and stock.
- ✗ Limited applications. Can only be operated with a fan.
- ✗ High speed rotors increase wear rate & life expectancy.

Sprinkler System

- ✗ Fine for roadways and open yards, but wets everything inside a building, causing vehicles to slide, increases the weight of waste going to landfill & generally produces slime everywhere.

mist-air Systems

- ✓ Kills airborne dust as it forms, where it's formed, suppressing dust before it can get blown around the building.
- ✓ Fog is distributed evenly throughout the building separating the fog particles as they form which prevents wetting.
- ✓ Different delivery systems are used dependant on the application. i.e. the conveyor entrance to picking sheds, outside trommels, hidden misting nozzles in wood and stone crushing hoppers both indoors and outdoors.
- ✓ Installed normally within one day
- ✓ Immediate emergency fitting service available
- ✓ Low purchase and installation cost
- ✓ Low running costs
- ✓ Average maintenance time each year - 30 minutes
- ✓ Manufactured from stainless steel, so long life
- ✓ Low maintenance

There are hundreds of Companies successfully using **mist-air** throughout the World including:-

Transfer Stations, Quarries, Cement works, Foundries, Factories, Fragmentation Plants, Landfill Sites, Waste Water Treatment Works, Chemical Treatment Works, Composting Sites, Brickworks, Recycling Works recycling: timber, rubber, glass, stone, soil, steel, wood, paper . . .

Why not talk to us ?