



Karpmix

Company Profile

We "**Kapmix Machinery Private Limited**" are a prominent & Limited Company (Ltd./ Pvt. Ltd.) that started in the year 2012 at Greater Noida, (Uttar Pradesh, India). Supported by a team of skilled personnel. Our corporate office is located in Noida and manufacturing facility is located in KHASRA No.-1132, Arya Bhawan , Meerut Road, Ghaziabad Opp - DPS (U.P.). Partnership with leading manufacturer in China for quality products imports.

Our Mission- Our Mission is to lead the world of concrete production by designing and building state-of-the-art concrete construction equipment with best and proven technology in the entire world.

Our Vision- Our vision is to satisfy our customers with a complete range of concrete construction equipment that can be dynamic even in the toughest conditions. Under the management of our mentor "**Mr. Amit Chauhan**" we have achieved reputed position in the industry.

Anti-Smog Gun

Introduction:

Anti-smog gun is a device that spews fine nebulised water droplets into the atmosphere so that the smallest dust and polluted particles are absorbed. The gun is connected to a water tank which is mounted on a vehicle. Anti-smog gun is a device that sprays atomised water into the atmosphere to reduce air pollution. Connected to a water tank and mounted on a vehicle, the device could be taken across the city to spray water to settle dust and other suspended particles.

What is Smog?

Smog refers to the mixture of solid and liquid fog with smoke particles. Smog is usually blackish or yellowish. Smog is air pollution that reduces visibility. The word “smog” was coined in the early 20th century. This kind of visible air pollution is composed of nitrogen oxides, sulphur oxides, ozone, smoke and other particulates.

How Smog is Formed?

Smog is a mixture of pollutants that are formed when nitrogen oxides and volatile organic compounds (VOCs) react to sunlight, creating a brown haze above cities. It tends to occur more often in summer, because that is when we have the most sunlight. Nitrogen oxides come from car exhaust, coal power plants, and factory emissions. VOCs are released from gasoline, paints, and many cleaning solvents.

Why is Smog Harmful to Health & Environment?

There are many terrible effects that smog has on humans, plants and animals. The four effects of smog are mentioned below:

On human health :

Smog can lead to various health complications like allergies, sinuses, asthma, emphysema, lung infections, and even cancer. The major effects of smog on human health are:

- ▶ Increase in allergies, coughing, and severe irritation of eyes, nose, and throat.
- ▶ Increase in the chance of developing birth defects.
- ▶ Increase in breathing problems and lung infections.
- ▶ Deaths are due to lung cancer.
- ▶ Increase risk of developing rickets

On plants:

Smog can also cause severe damage to plant life. With more smog in the environment, the amount of sunlight that reaches the Earth's surface is comparatively lower. This means that plants have less sunlight for photosynthesis. This stunts their growth. The environmental impact of smog can be fatal.

On animals :

Smog can interfere with the natural habitat of animals making it difficult for them to survive extreme weather conditions. Due to this, the death rate of animals may increase. They fall prey to various diseases which may lead to the extinction of species.

On the environment :

The environmental impact of smog is no less. Smog can cause severe damage to the environment in the form of acid rain. Acid rain is caused when sulphur dioxide particles suspended in the air due to air pollution mingle with the water droplets.

Smog is the devastating problem arising especially due to the industrialisation and modernisation and thus the new invention and technology such as **ANTI-SMOG GUN** has came up as a solution to overcome this problem of air pollution. Anti-smog gun is a device designed to reduce air pollution by spraying water into the atmosphere so that all the dust and polluted particles gets clear from the environment.

How Does It Work?

Anti smog gun is used to spray water after connecting it with water tank mounted on a vehicle. It converts the water into a fine spray with droplets size of 50-100 microns by passing it at high pressure through propellers. The idea behind this invention is to reduce air pollution by binding dust and other particulate matter and carrying them down to the ground level along with water. This is been designed for the arid places and the metropolitan areas. It basically works as rain to bring down the suspended particles present in the air. This device could be taken across the city to spray water to settle all suspended particles. Anti smog gun can spray water up to the height of 150 feet with the capacity of 30-100 litres per minute to bring down the polluted particles from the atmosphere.

Recent Technologies To Control Smog

Various technologies are developed to cope with SMOG some of these are described further such as :-

- ▶ Mist Cannon / Dust Suppression / Anti-Pollution Gun / Anti-Smog Gun
- ▶ Air Purifier Tower / Anti-Smog Tower
- ▶ Truck Mounted Anti Smog Gun
- ▶ Tractor Mounted Anti Smog Gun

Mist Cannon



Truck Mounted Anti Smog Gun





We manufacture 30 Mtr, 50 Mtr, 75-100 Mtr, range Auto Swing & Manual Anti Smog Gun.

Kapmix Machinery Pvt. Ltd Company is a well known manufacturer of a qualitative assortment of Anti Smog Gun. We have developed a large infrastructural unit that assists us to make world class range of products in huge quantity with assured quality.



TECHNICAL SPECIFICATIONS

30 Mtr

Industrial Axial Fan	LN6 make blades.(Aluminum)
Capacity Of Anti-Smog Gun	30mtr(Horizontal)
Motor, 415 V	5HP/ 2800 rpm, 3 phase(Crompton, Havells)
Case for axial fan	2.5mm (M.S)
Fan Safe Guard	Back side
Cannon	2.5mm
Water feed Pump	2HP, 2800 rpm, 3 phases(CRI, LUBI)
Water Tank	1000ltrs. – 1 no(MS Sheet)
Electrical Control Panel	01 no. (To operate fan & pump, L&T/legrand / eqv fittings)
Hose pipe	01 no. (To connect with pressure / booster pump).
Trolley for Anti-Smog Gun	01 no. (Mounted with 4 wheels with rake arm).
Hand Lever operation	01 no. (For smooth vertex handling up to 60).
Horizontal Rotator	01 set (To rotate Anti-Smog Gun Horizontally – 180 * 2).
Weight	450kg-500kg (Approx)
No Of Nozzles	18 to 20 no(Brass)
LPM	25-30

TECHNICAL SPECIFICATIONS

50 Mtr

Industrial Axial Fan	LM6 make blades (Aluminum)
Capacity Of Anti-Smog Gun	50mtr(Horizontal)
Motor,415 V	10HP/2800rpm, 3phases(Crompton, Havells)
Case for axial fan	2.5mm (M.S)
Fan Safe Guard	Backside.
Cannon	2.5 mm
Water feed Pump	3HP, 2800rpm, 3phases(CRI,LUBI)
Water Tank	1000 ltrs. –1no. (MS Sheet)
Electrical Control Panel	01no. (To operate fan & pump, L&T/legrand/ eqv fittings)
Hose pipe	01no.(To connect with pressure/ booster pump).
Trolley for Anti-Smog Gun	01no.(Mounted with 4 wheels with rake arm).
Horizontal Rotator	01set(To rotate Anti-Smog Gun Horizontally–180*2).
Nozzles	22 to 24 no
LPM	25-30

TECHNICAL SPECIFICATIONS

75-100 Mtr

Model No.	KPSM100Mtr
Theoretical Spraying Distance	100mtrs
Operating System	ByPanel
Droplet Size	50 to 100 microns
Fan Diameter	34 Inch
Fan Blade	8Nos
Horizontal Rotating Angle	345 degree
Elevation Angle	0degree-60degree
Water Flow	20-25L/Min
Water Pump Pressure	3 MPA
Fan Motor	25HP
Rotation Motor	2 hpwithgearboxandtwolimitswitch box
Voltage	415v/50Hz/6.3A
Water Pump Motor	7.5 HP (CRI or Lubi) /415v/50Hz/3450rpm/6.3A
coverage area (sqm)	12000 sq/m
Spraying Water Ring	Double Rings
Material of watering	Stainless Steel
Nozzles Quantity	35 pcs
Cannon Height	6 Ft
Cannon Sheet	3mm
Operating Panel	With wired operator panel
Panel	Single door weatherproof (schnider)
Leg	4Nos.
Hose Pipe	Onehose (Two connect with pressure + booster pump)
Total Motor Consumption	34.5Hp
Weight	1200KGApprox.

Mounted Anti-Smog Cannon Gun/Auto with Tanker

Equipment Type(Truck Mounted)	TruckMounted50mtrs
Material	Mild Steel/S.S.304(FORCANNON)
Drive	DG
Pump	Jetting pump
Working Pressure	350Bar
Cannon Swing	Auto Swing and Auto Operate
Cannon Tilting	Manual
Cannon Surface	Powder Coated
Nozzle Size	50-100Micron
Nozzle Material	Brass
Nozzle Quantity	26
Spraying Water Ring	Single Rings
Material Of Water Ring	StainlessSteel304
Spraying Water	50Mtrs
Cannon Rotation	270Deg.
Tilting Angle	0-60Deg.
Blower Capacity	2800RPM
Fan Motor	10 H.p. (Crompton)
Jetting Water Pump	5HP
D.G(Silent)	25K.V.(Mahindra/ Kirlosker Or other equivalent brand Silent)
Panel	Electric Panel (Schneider Make)
TankSheet	3MM
TankWaterCapacity	5,000LITER
WaterFlow	25-30LPM



THANK YOU!