



Do you know about smog

The world of big and large cities seems glamorous from outside but however the sight you have within might be so happy and obscure that you can't even see the horizon. This might be because of the smoky or the fog which is nonetheless called as Smog

How smog is formed

Smog is formed when sunlight and its heat react with the gases and fine particles released into atmosphere through burnt fuels. The complex photochemical reactions between the precursors like volatile organic compounds, sulphur dioxide and nitrogen dioxide release the ground level ozone and fine particles in the air.

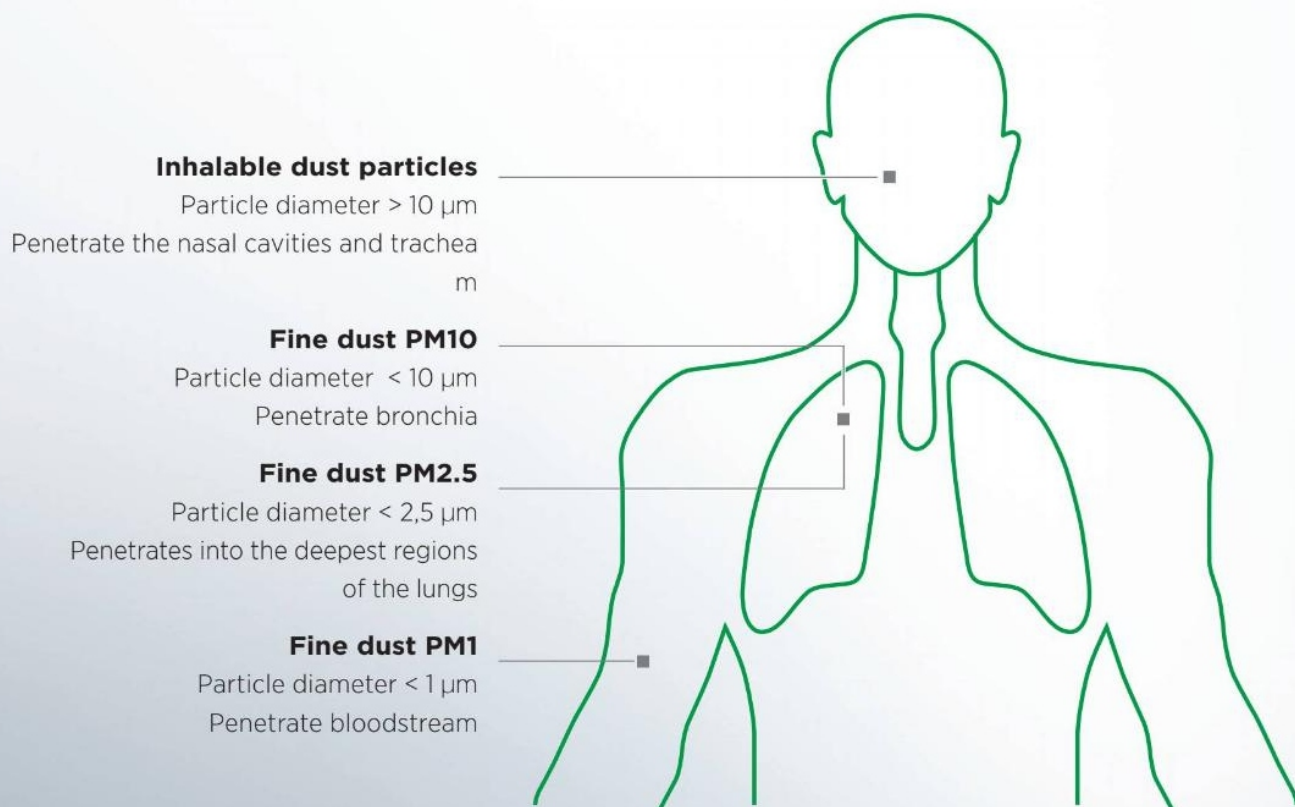
Effects of Smog

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The effect can be observed upon humans, animals, plants and nature as a whole. This smog can be responsible for the ailments from minor pains to the diseases like lung cancer. The ground level ozone present in the smog inhibits the plant growth and causes immense damage to the crops and forests. It also affects the death of innumerable animals who adapt to survive in the toxic environments.

Worldwide many cities struggle with air pollution, as traffic and industries produce high concentrations of fine dust and nitrogen dioxide. In countries like India and Germany, the exceedances of limit values - in particular that of nitrogen dioxide - are a constant source of discussion. Even driving bans, several construction bans are being put under consideration in high traffic areas or places with large emissions and low air exchange, the exposure is especially high and the effect on human health is harmful


Surrounding yourself with clean air is a quality of life necessity. In places where people are studying, working, shopping or spending their free time. It is important to be surrounded by clean air



Specification

- MAST TYPE - 18/20 FT. (FIXED AT ONE PLACE)
- SOLAR PANEL CAN BE INSTALLED ON THE TOP OPTIONAL
- SET OF FILTERS BE LIKE-PRE FILTER -> CARBON/ CHARCHOL
- ACTIVATED FILTER -> FINE LAYER HEPA-SUCTION 5000 CUM
- POWER APPROX 10 HP / 7.5 KW
- AIR PURIFICATION APPROX. 75000 CUM PER HOUR
- IP 65 CONTROL PANEL TOUCH SCREEN
- EMERGENCY STOP
- AUTO START & STOP
- SMOG TOWER BINDS MORE THAN 80 PERCENT OF THE PARTICULATE MATTER AND NO₂
- THE UNIT IS CAPABLE OF BRINGING DOWN THE PM_{2.5} LEVEL FROM 200 TO 50 WITHIN 60 MINUTES
- THE CONCENTRATION OF PARTICULATE MATTER AND NITROGEN DIOXIDE CAN BE SCALED DOWN THROUGH THE FILTERS DIRECTLY

KNC-2, Street No. 10 Anand Parbat Indl. Area, New Delhi-110005

 : yogeshgupta1970@gmail.com • shreelaxmienterprises1@gmail.com
www.slecompany.com

Intelligent System

The Air purification tower is equipped with an intelligent mechatronic system architecture. Available sensors record air and weather data as well as the pollution level. These data are transferred to a cloud where they are merged and analysed.

Function

Air purification towers binds more than 80 percent of the particulate matter and NO_2 . The essence of this technology is the newly developed combi-filter which contains a highly effective filter layer for particles and activated carbon layers that absorb NO_2 . Through its large surface, this extremely porous activated carbon - media is incredibly efficient in absorbing NO_2 . This technology is defined by a particularly low pressure drop which cleanses the air effectively with very low energy input.

The Air purification towers reduces the pollution levels on site and thus contribute to a protection of human health. The concentration of particulate matter and nitrogen dioxide can be scaled down through filters directly.

Four Stage Air Purification Tower

