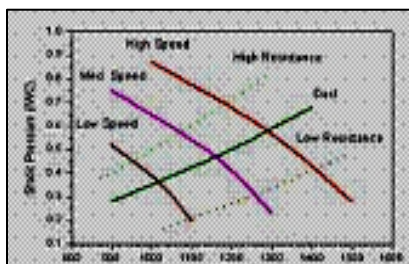


# AIR QUALITY CONTROLLER/FUME EXTRACTOR (INDOOR/OUT DOOR)

**Introduction:** MIAC series of air pollution control systems(indoor/outdoor) are available in more than 6 different models, virtually offering solutions to indoor/out door air quality in non-accessible/interior space in domestic, commercial, hospital, industrial and scientific buildings. These controller are able to reduce ppm level of pollutants gases like CO<sub>2</sub>, CO, NH<sub>3</sub>, H<sub>2</sub>S, alcohol, oxide dust fumes/others etc to as much as 1/10<sup>th</sup> level or suffocation by way of evacuation. The evacuated polluted air may be left to either free atmosphere or may be treated to permissible level before releasing. It is very useful for general domestic, hotels, hospital, chemical laboratory, mines, vehicles, multi-story buildings, telecom, electric substation petrochemical, automobile, organic/inorganic chemical, milk plant, sugar, textiles, beverages, water management/treatment, academic and defense utilities, dust free measurement environments in lab, high voltage working environment.

**Operating Principle of air pollution control system:** High frequency Suction pump sucks polluted air /suspended particulates and evacuates outside working environment at very High flow rate varying 1500- 5000 litre/.minute through pipe. Gas /particulate sensor detects the ppm level of gas and generates the signal which compared with set point to generate error signal, which correct flow rate of air being evacuated. In conventional exhaust system, first foul air first spread in whole occupancy and the sucked out by convention exhaust after whole spread in occupancy, apart from consuming lot of electricity and sound pollution and occupying large space, whereas here foul air evacuated without giving chance to spread leading to least suffocation. Further the evacuated polluted air may be left to either free atmosphere or may be treated to permissible level before releasing

**Benefits:** Fast primary stability time, quick response, low suffocation, Large operating voltage-80-280 volt ac, low consumption, miniature design



Flow rate vs pressure



commercial air pollution control systems



air pollution monitoring system

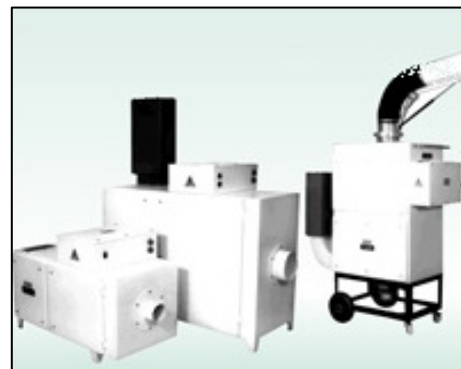
Electrical/Mechanical specification of air pollution control systems

2400 lpm<Flow rate<10,0000

Model	Evacuation rate Cubic.desimeter/ min	Power Watts	Outlet size m.m.	Evacuation length meter	% reduction pollutant gases/30 min	Opewrating voltage A.C.	Noise
MIAC -020036	3.6	200	50	3-10	50%	220 /option	Very- low
MIAC -035045	4.5	350	50	3-10	60%	220 /option	Very- low
MIAC -040061	6.1	400	50	3-10	70%	220 /option	Very- low
MIAC -06078	7.8	600	62	3-10	70%	220 /option	Very- low
MIAC -08090	9.0	735	75	3-10	70%	220 /option	Very- low

**Electronic Air Pollution Control System:**

- Operating voltage 220 voltsA.C. 50Hz, 12/24 volts D.C.
- Evacuation rate: 1000-9000 c.d.m./min
- V.A.:as in data sheet
- Maintenance free life: more than three years
- % reduction pollutant gases/30 min: 30-80%
- Evacuation length: 3-20 meter
- Response time 5-10 mints
- Sensing material: thermal based spm sensor/multi-metal oxide /NDIR /openloop(optional)
- Control option feed forward/open loop as desired  
Multi control synchronized control (interactively)
- Display 3½ -volt/flow rate as desired
- Operation time: regular (24x7)
- Controller size 10x10x14"/10X10X16 Inch



pollution control systems

# AIR QUALITY CONTROLLER/FUME EXTRACTOR (INDOOR/OUT DOOR)



Operation theater



workshop



Laboratory Room



Genera kitchen



Foundry



Rest room



Chemical experimental table



wave soldering machine fume extraction