

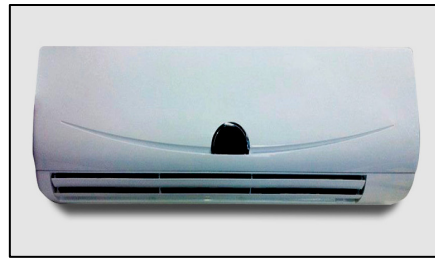
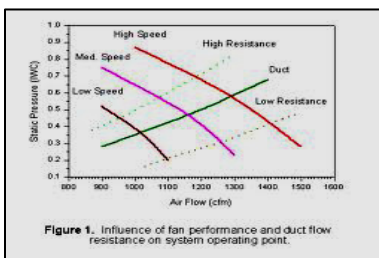
# FUME EXTRACTOR

**Introduction:** MFEXT series of fume extractors are available in more than 10 different models, virtually offering solutions to indoor fume extractor control in non-accessible/interior space in domestic, commercial, hospital, industrial and scientific buildings. These are able to reduce ppm level of pollutants gases like CO<sub>2</sub>, CO, NH<sub>3</sub>, H<sub>2</sub>S/others etc to as much as 1/10<sup>th</sup> level or suffocation by way of evacuation. 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 chimney/Indoor fume extractor :** It consist of high frequency chopper driving centrifugal pump sucking 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.

**Benefits:** Fast primary stability time, quick response, low suffocation.

Large operating voltage-80-280 volt ac, / Low consumption, miniature design



Pressure vs flow

Fume extractor in plating plant

fume extractor

**Electrical/Mechanical specification of in door Fume extractor**

1200 lpm < Flow rate < 10,000

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
MFEXT -010024	2.4	100	50	3-10	40%	220 /option	Very- low
MFEXT -020036	3.6	200	50	3-10	50%	220 /option	Very- low
MFEXT -035045	4.5	350	50	3-10	60%	220 /option	Very- low
MFEXT -040061	6.1	400	50	3-10	70%	220 /option	Very- low
MFEXT -06078	7.8	600	62	3-10	70%	220 /option	Very- low
MFEXT -08090	9.0	735	75	3-10	70%	220 /option	Very- low

**Electronic Fume extractor:**

Operating voltage 220 volts A.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: 3-10 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)

size 10x10x14"

# FUME EXTRACTOR/CHIMNEY



**Operation theater**



**workshop**



**Laboratory Room**



**Genera kitchen**



**Car**



**Rest room**



**Chemical experimental table**



**wave soldering machine fume extraction**