



*Note ref. 12146-2*

Useful technical elements in order to present bactericidal and reducing humidification of oil mist in stuffy environment

- no need of external power for the catalysis (forming of bactericidal and oxidizing free radicals for organics of hydrocarbon type which are present in the ambient air),
- small sized cartridge for domestic humidifying, adjustable without limits in accordance with the water flow to be vaporized,
- works with network water,
- process which applies to ultrasound or evaporation humidifiers with filtering media,
- allows ambient humidifying in closed premises with presence of human beings, saving energy in cold or warm seasons, due to the absence of bacterial or viral proliferation in aerial ambient, without any addition of halogen or other chemical additives,
- reduces bacterial flora and oil mists (metal machining, catering ...).

The purpose of bactericidal processing by means of aqueous aerosol isn't to eliminate the whole bacterial flora which is present in occupied premises, but to reduce it in order to make it acceptable in ambient environment and to reach that way an energy gain on heating and/or air-conditioning of a wide range of premises.

However, the reduction at the most of bacterial flora in clean rooms (conditioning of ready-cooked dishes ...), or in operating theatres (surgery) can be suitable, bactericidal humidifying being appropriate for it (aerobic and anaerobic flora).

Applying the same technology to oil mist reduction in catering kitchens - which aren't often well ventilated - or in machining workshops with cutting emulsions or the whole oil, is of particular interest as far as it handles a recurrent problem in the respective concerned environments at - to say the least - a reduced price, providing at the same time a reduction of bacterial flora and access to the reduction of energy consumption for heating and/or air-conditioning of the above mentioned places of work.

Reduction of bacterial flora in aerial environment has its full significance in flu periods, particularly in any kind of public places and, of course, in order to prevent - if necessary - pandemics.

This note is of course not exhaustive considering the « niches » (small or big ones) where the concerned technology does apply and aren't mentioned here above.