FORMALIN VAPORIZER

GENERAL FEATURES

At the J enclosure, the new European standard EN 12469 lists a series of instructions about the decontamination, the cleaning and the sterilization through fumigation of microbiological safety cabinets, taking what already provided for by BS 5726 standard.

In particular the above-mentioned standard recommends to perform the fumigation in the following cases:

- Before each maintenance operation to the parts of the cabinets potentially contaminated (replacement of filters and/or pre-filters included);
- Before testing the filters (as for instance D.O.P. test);
- When some inaccessible surfaces could have been contaminated by an accidental spilling.
- When you completely change the nature of work done under the cabinet.

The EN 12469 standard shows as suitable the fumigation with formalin vapour made by mixing formaldehyde and water.

The new formalin vaporizer produced by Faster has been designed to meet the above-mentioned requirements, while operating in absolute safety conditions.

The vaporizer is CE marked and has been designed and produced according to the most recent European standards.
APPLICATIONS

- Sterilization of microbiological safety cabinets
- Sterilization of cytotoxic drug safety cabinets

OPERATION

The formalin vaporizer consists of two containers for solutions. The first one contains a solution of 50% formalin and 50% distilled water and the second one contains a solution (for instance Ammonium bicarbonate) suitable to neutralize the formaldehyde vapours generated during the sterilization process.

The switching on of the cabinet causes the heating of a 150W resistance used to generate the formalin vaporization.

A safety thermostat set to 130° C (formalin vaporizes at a temperature always lower than 100°C) signals the end of the vaporization process.

Then a waiting time is to be set through a timer (never less than 6 hours). When the waiting time is over, the solution suitable to neutralize the formaldehyde vapours is to be vaporized in the same way used for formalin vaporization.

When this second process is over (signalled by another thermostat also set to 130°C) another waiting period of 20 minutes must be set, after which the sterilization cycle is completed.

The device is fitted with a series of lights to highlight the various stages of sterilization process.
TECHNICAL SPECS

- **Structure**: in AISI-304 stainless steel
- **Containers of the solutions**: in anodized aluminium
- **Max. volume of the solution containers**: 250 ml./cad., suitable to assure that the concentration of formaldehyde is at least 50mg/m³ for all models of FASTER BH 2000 and CYTOSAFE 2000.
- **Temperature sensors**: bimetallic thermostat
- **Period of sterilization**: it can be set by a timer in order to assure what provided for by the J enclosure of EN 12469 standard (at least 6 hours. Max. time 8 hours)
- **Equipped with safety device for the following operations:**
  * to allow the complete sterilization cycle also in case of black out
  * to avoid that the temperature of the containers exceeds 150°C by means of a double safety thermostat.