

The "Dynalysor" Spraying Unit  
for use in hospitals (wards  
and operating theatre),  
offices, factories, etc.



## THE 'MILTON' SYSTEM OF AIR PURIFICATION

"XVI. 'There is sufficient evidence for considering that the risk of air-borne infection may be reduced by spraying the atmosphere of shelters. On account of its easy procurability, cheapness in bulk, and intrinsic merits the antiseptic recommended is sodium hypochlorite in aqueous solution. The type of spray will vary from mechanically-operated to hand-operated apparatus according to the type and size of shelter.'"—*Recommendations of Lord Horder's Committee regarding the Conditions in Air Raid Shelters. H.M.S.O., Cmd. 6234, 1940.*

This recommendation confirmed the result of the pioneer work of the Milton laboratories, reported fully in "A System of Air Purification by Hypochlorous Acid Gas," by the late A. T. Masterman, M.A., D.Sc., F.R.S. (1938).

It was shown that:

- (1) The hypochlorous acid gas was rapidly disseminated throughout the confined space.
- (2) Its presence was quite unobjectionable to the occupants.
- (3) The air was rapidly cleaned and deodorised, and
- (4) As regards air-borne germs, it was possible to produce and maintain a degree of sterility of over 90%. These results were produced by a volumetric concentration of the gas in the region of  $\frac{1}{1,000,000}$  to  $\frac{1}{10,000,000}$ . Further work has shown that a concentration of one part of gas by volume in 1,000,000 gives a slight but completely non-irritant odour, whilst a concentration of 1 in 15,000,000 upwards is germicidally effective up to 99.5%.

In the light of these results it has been found practical to devise a complete system of air purification by the use of a special vaporiser and a special form of Milton Antiseptic known as "Milton 2" for production and dissemination of hypochlorous acid gas.

★                      ★                      ★                      ★

*Surgeons, physicians, medical officers of health and hospitals' officials interested in air purification, are invited to write to the Professional Dept., Milton Antiseptic Ltd., John Milton House, London, N.7, requesting a demonstration, which will be arranged when a technical representative is next in the enquirer's district.*

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