

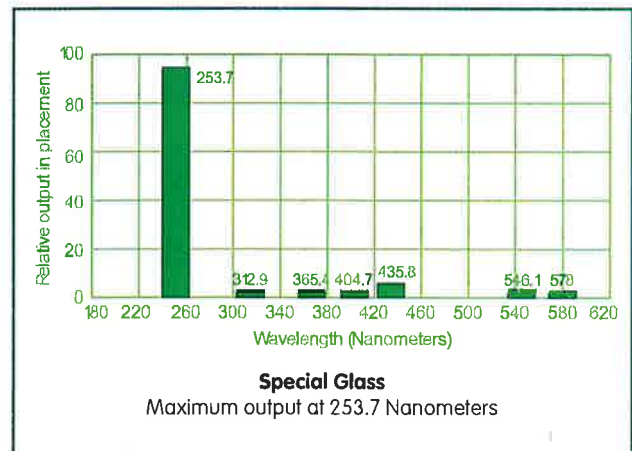
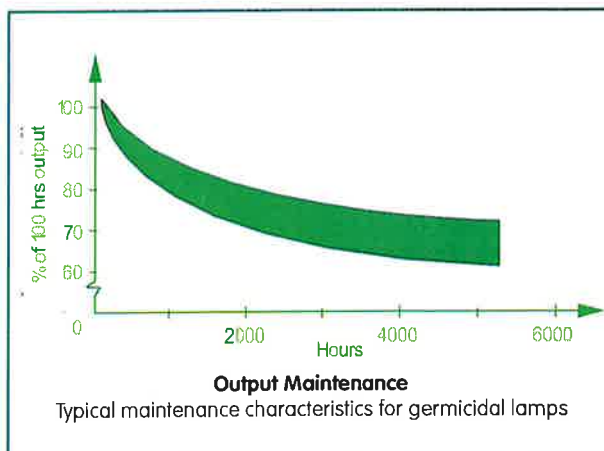
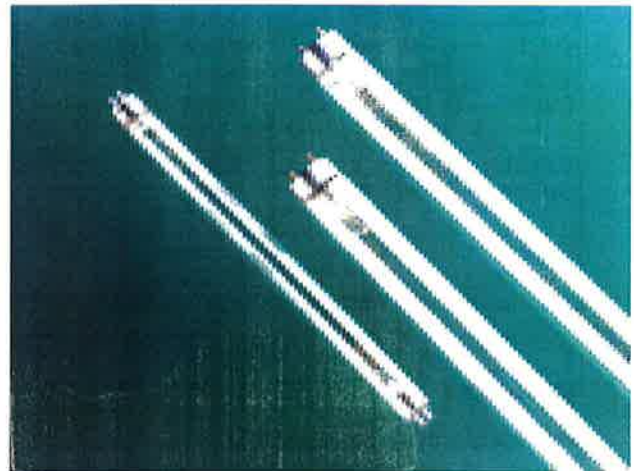
SYLVANIA

Germicidal Lamps

UV-radiation

Sylvania Germicidal lamps are electrically the same as fluorescent lamps of corresponding sizes and wattages and require essentially the same auxiliary equipment. These lamps differ physically from fluorescent lamps in that they contain no phosphor and are constructed with a special type of glass to permit maximum emission of germicidal ultraviolet energy. The glass used in ordinary fluorescent lamps filters out all germicidal ultraviolet energy.

The majority of germicidal lamps operate most efficiently in still air at an ambient temperature of 25°C. These are the conditions under which the ultraviolet output is measured and tabulated.



UV-output and maintenance

The ultraviolet output and consequently the germicidal effectiveness of these lamps decreases at temperatures above or below this optimum temperature.

Lamps operating in a room at 5°C produce only about 2/3 to 3/4 as much UV power as at 25°C. If a lamp is cooled by air currents or by submersion in a liquid, the ultraviolet output similarly decreases.

While the maintenance is a direct function of the burning hours, dust collecting on the tube and reflecting surfaces can easily double the loss as determined at the irradiated surface.

Need for Germicidal Lamps

The more common applications of germicidal lamps fall into 2 broad classifications: personal protection and product protection.

Personal protection is the irradiation of the air in a room for the purpose of protecting the occupants from airborne infectious diseases.

Product protection is the UV-radiation in areas where food, pharmaceuticals and other products are stored to prevent contamination and spoilage by molds or other microorganisms.

Germicidal Lamps

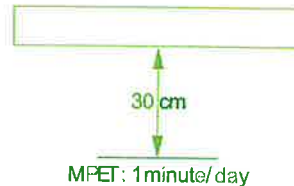
Description	Watts	Volts	Current (A)	UV-output (W)	Length (mm)	Diameter (mm)	Base	Life (hrs)	Box Quantity	Order Code
G4 T5	4	42	0.162	0.50	134.5	15.5	G5	3000	50	02328
G6 T5	6	42	0.147	1.00	210.5	15.5	G5	3000	50	02216
G8 T5	8	54	0.170	1.70	287.0	15.5	G5	3000	24	00501
G10 T8	10	55	0.230	1.90	330.0	25.5	G13	5000	24	02482
G15 T8	15	55	0.300	3.60	436.0	25.5	G13	5000	24	00502
G25 T8	25	70	0.600	5.00	436.0	25.5	G13	5000	24	00526
G30 T8	30	96	0.355	9.00	893.0	25.5	G13	5000	24	00503
G20 T10	20	57	0.360	4.10	588.5	32.5	G13	5000	10	02500
G40 T10	40	100	0.415	12.00	1198.0	32.5	G13	5000	10	02327
GTL 3	8	-	0.350	0.18	63.0	20.0	E17	2000	12	02460

Applications

Germicidal Lamps are used for :

- destruction of bacteria, viruses, mold spores and other micro-organisms.
- sterilisation of air, gases liquids and surfaces of solids, in hospital rooms, chemical processes.
- industrial graphic equipment.
- water purification.
- fluorescent effects.
- mineral detection.
- erasing EPROM memories.

Handling Instructions



Maximum Permissible Exposure Time (MPET) can be established for the exposure of the skin or eyes for a given range of wavelengths.

Warning !

It is essential that adequate precautions be taken in any application of germicidal lamps. Prolonged exposure to high intensities of UV-radiation can cause temporary, but painful inflammation of the conjunctiva. The glass used in conventional eyeglasses affords adequate eye protection for brief exposure. Where the concentration of germicidal energy is especially high, protection of hands and arms may be necessary. Clothing and gloves will generally provide adequate protection.

If you would like more information or a visit from an engineer, please contact your nearest SPG office.

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