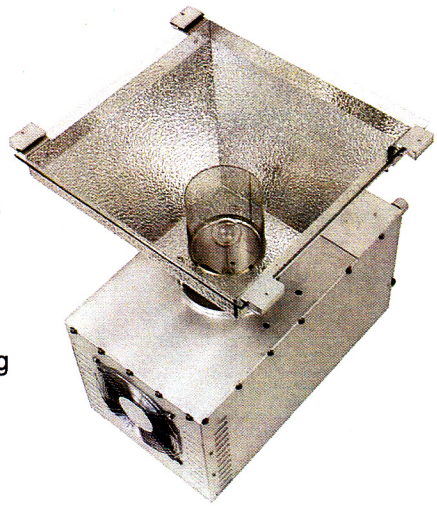
Sulfur Plasma Lamp

Microwave generated lamp with mit well-balanced light spectrum

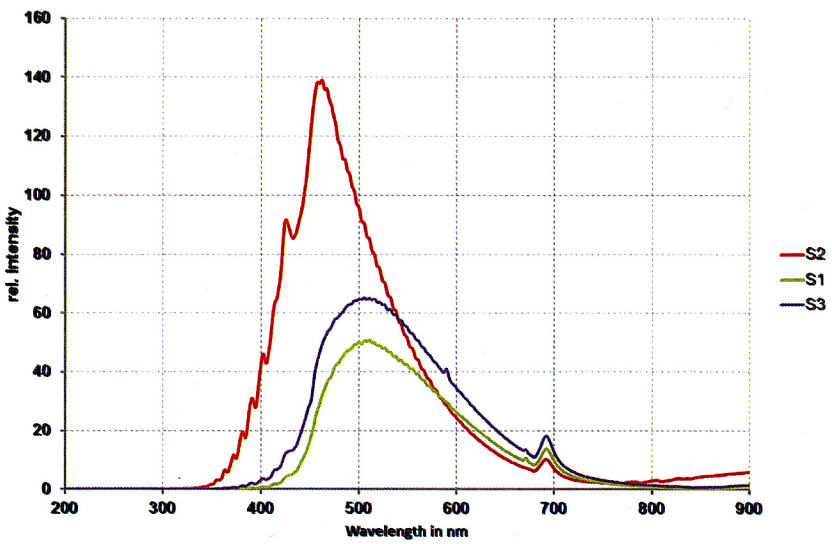


The typical applications of the Sulfur Plasma Lamp can be found in the sun simulation, such as plant and animal breeding, the lighting in photography and film studios, or in quality assurance, e.g. in the testing of solar panels.

The Sulfur Plasma Lamp is a microwave-generated plasma light. The light source is an electrodeless quartz glass bulb, which is filled with traces of sulfur and argon. The sulfur plasma lamp produces a well-balanced spectrum which is close to the sun light. No mercury is used for producing this light. The light spectrum throughout the life-time is almost constant. The light intensity can be dimmed, the color spectrum remains almost the same.

The stabilization of the plasma is reached by the rotation of the glass bulb during operation. The lamp consists of a compact aluminum housing and the funnel-shaped reflector that can vary depending on the application. In the housing, the electrical power supply with the magnetron is built in. The procurement of expensive special cables is therefore not required.

Available spectra



Technical data

Available colour temperatures and typical applications	S 1: 4,000 – 4,500 Kelvin, e.g. for poult breeding S 2: approx. 8,000 Kelvin, e.g. for aquaristics S 3: approx. 5,600 Kelvin, sun light / horticulture
Power consumption	1,350 W
Lamp power	1,000 W
Mains	230V ± 10%, 50/60 Hz
Luminous flux	≥ 125 lm/W
Life time lamp	40,000 h
Recommended ambient temperature	+ 10...40 °C
Dimensions (LxWxH)	approx. 360 x 300 x 400 mm
Weight	approx. 12 kg