

Basel, 3. November 2011

# **Art. 31641 UV-sterilisation in air stream Multitron 2**

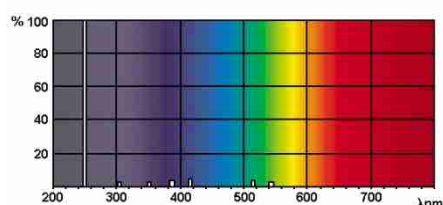


Sterilisation of the air stream is effected by two UV-lamp units installed between the incubator back wall and the rear inner cover panel.  
 The UV-lamps emit an energy-rich UV radiation at 253,7nm. Air that is sucked in by the blowers is led through this light trap. Microorganisms contained in the air are killed.  
 Pic. 1 shows the position of the UV-lamps behind the rear cover panel.

*Pic. 1 (rear cover panel removed)*

The UV-sterilisation lamps are not visible until the rear cover panel is removed. Due to the protected installation there is no stray UV light in the chamber and furthermore it is possible to leave the UV lights switched on during cultivation. As an additional safety, the UV lamps are automatically switched off during door opening making sure that users cannot come into contact with harmful radiation while handling the cultures. With closed door, the Polycarbonate window represents an additional safety barrier because Polycarbonate blocks UV light completely. The UV-light is compatible with Direct Steam Humidification.

## **Technical data:**



*Pic. 2 Emission spectrum*

Description	Value
UV-sterilisation lamp 5 Watt Sockel G23	5 W
Wave length UV-C	200 – 280 nm
Emission maximum	253,7 nm
Lifetime	9000 h
Energy emission UV-C	1,1 W
Intensity after 5000 h	80%
Total electrical power	32,2 W
Total power consumption	0,18 A

Lifetime is about 1 year if operated continuously. For this reason we recommend to have the UV lamps exchanged yearly by our technical service.

*Daniel Brucher*

Dr. D. Brucher, Product Manager Shakers