

## Instructions for Replacing Bulbs

Dear Leica customer,

The appliance you bought uses a UV germicidal lamp from sterilAir® to protect you and your health. The efficiency of this antibacterial piece of equipment is, to a large degree, determined by the condition of the UV bulb. The following information will help you assess the service life and/or working condition of the UV bulb and determine the appropriate time for replacement.

UV bulbs age through wear of the coil material and change in the gas mixture during operation. The average useful life of a bulb used round the clock is 12,000 hours. During this period, UV emission drops to 75% ( $\pm 3\%$ ) of the calculated maximum efficiency. In order to ensure the stated maximum germicidal efficiency, we recommend replacing the bulb at this time. Leica Microsystems specifies bulb replacement after 9,000 operating hours and alerts the user by two blinking LEDs.

In addition to service life alone, the number of times the lamp is turned on and off has a significant effect on the quality of the bulb. Each ignition is equivalent to an aging process of 1-2 operating hours. Indications of a malfunctioning bulb are a shutdown of the bulb by the electronic ballast after only a few seconds, as well as strong flickering as long as five minutes after turning on the bulb.

When replacing a bulb, ensure proper condition and fit of the O-ring seal in the bulb connector. Defective seals must be replaced and impurities removed.

In case the new replacement bulb also ignites for only a short period (blue arc) and turns off after a few seconds, the problem may be moisture in the bulb base. Any malfunction after installing a new replacement bulb can be attributed to the power supply such as a malfunction of the ballast. Please contact your authorized Leica Microsystems service center for assistance.

Best regards,

Dr. Michael Calenberg  
General Manager sterilAir GmbH

