

Mounting instructions for UV-sterilisers Article- No.: 6/III, 6/IV und 6/V

Single burner sterilisers article 6/III (55 Watts) and article 6/IV (85 Watts) may be mounted horizontally or vertically. Double burner sterilisers article **6/V (2 x 85 Watts)** are **only** permitted for **horizontally** mounting.

Always avoid heavy shocks while mounting! Carefully remove the burner(s) before inserting the housing in the holding brackets. There will be no warranty for broken glass.

1) Horizontal mounting:

please take care that the fittings always point upwards so that any air inside the burner housing may be flushed. Air bubbles inside the burner housing could lead to overheating, shortening the appliance's useful operation time and reducing performance considerably. For horizontal mounting the direction of the water flow does not matter. The pipe leading the water away has always to be above the connection level so that no air will remain inside the housing. Overheating, the most common reasons are a lack of water or a lack of water flow, will cause the heat protection fuse to break the electrical circuit permanently, thus avoiding fire hazard.

2) Vertical mounting for article-no.: 6/III & 6/IV

the steriliser's cable exit has to point upside. The direction of waterflow has to be bottom-up, so that any air in the burner housing will be removed. The device may be connected directly to the water pipes or to kink-free woven hoses using the nipples provided.

If a UV-burner is removed from its protective pipe, care should be taken prior to re-installing that the black rubber O-ring is on the grey plastic cap and not on the glass pipe! The O-ring seal has to be completely dry and oil-free. Carefully slide the UV-burner inside the protective housing and tighten the cap cautiously by hand only. Don't use any tools which could damage the device easily. Check that the connection is not leaking after re-enabling water pressure. Operating the steriliser without a tightened screw cap is not permitted.

The UV-units are splash-water-proof (IP54) and are NOT designed for under water usage.

After mounting the UV-steriliser connect the cable from the burner with the power-supply-device. After activation of the water flow the power-supply-device may be connected with electrical mains and switched on. A control hole in the burner-housing between the two screw-connections will now show a faint blue light.

Please install the power-supply in a dry and well ventilated place horizontally on its rubber pads. The power-supply-units produce some heat which has to be removed. Therefore it is important that units will not be covered by anything. Power-supply-units may **not** be stacked while operating more than one steriliser. The surface temperature of the power-supply-units cases may rise to more than 50°C above the room temperature in operating mode.

Please note!

A steady water flow through the steriliser has to be ensured. Stagnant water heats up very quickly leading to the melting of the protective pipe which will be prevented by the blowing of the internal thermal fuse. UV-burners with a triggered thermal fuse have to be sent back to Trop Electronic where the fuse can be exchanged. Fuse exchange is **NOT** covered by warranty and involves some costs anyway.

It is recommended to wire the sterilizer and the pump for the waterflow with a relay or similar device in order to switch off the sterilizer if the goes down thus preventing overheating and fuse blowing. The maximal internal pressure in the housing is 1 bar !. Do not increase the maximum water flow rate above 2000 to 3000 l/h because this may bring the pressure inside the housing beyond the permitted 1 bar. There is a second reason for not to excess the flow rate. For the UV radiation to clean the water a minimum dwell time has to be. The slower the water flow the more intensive the radiation will be to the ambient water.

UV - burners have a half life time of approximately 10000h. This means that the intensity of the UVC - radiation is fallen to 50 %. Although it is possible to continue operation it is recommended to replace the burner. This may be done by replacing the burner or by sending the burner to Trop Electronic for refurbishment. Refurbishment means that the interior of the burner will be replaced using the quite expensive glass tube again which can be done repeatedly making refurbishment an attractive alternative to replacing the whole burner. Please do not send the housing and/or the power supply unit if the burner has to be replaced or refurbished.

If the device is used outside for sterilisation of ponds, the power supply unit and the plug-in connector should to be operated in dry environment. It is recommended to use a current-error safety switch for humid rooms. Use a basket strainer in order to keep away stones or leaves from entering the housing. Place the steriliser at a shady place to avoid unnecessary heating by solar radiation.

Special UV-sterilisers are available for outdoor-usage (waterproof IP65) without plug-in connector including a 10m-rubber cable.

