IST UV-INERT-SYSTEM
OXYGEN-REDUCED UV CURING

UV-units operating in oxygen-reduced conditions are leading the way for UV curing of the future. In these systems, the atmospheric oxygen in the reaction chamber is replaced by nitrogen. The benefits of oxygen reduction are considerable ozone and odour reduction and reduced yellowing. Also, the curing of UV inks, varnishes and coatings is much faster.

For cross-linking silicones manufactured by Evonik Goldschmidt GmbH and Bluestar Silicones, the residual oxygen content must be kept below 50 ppm.

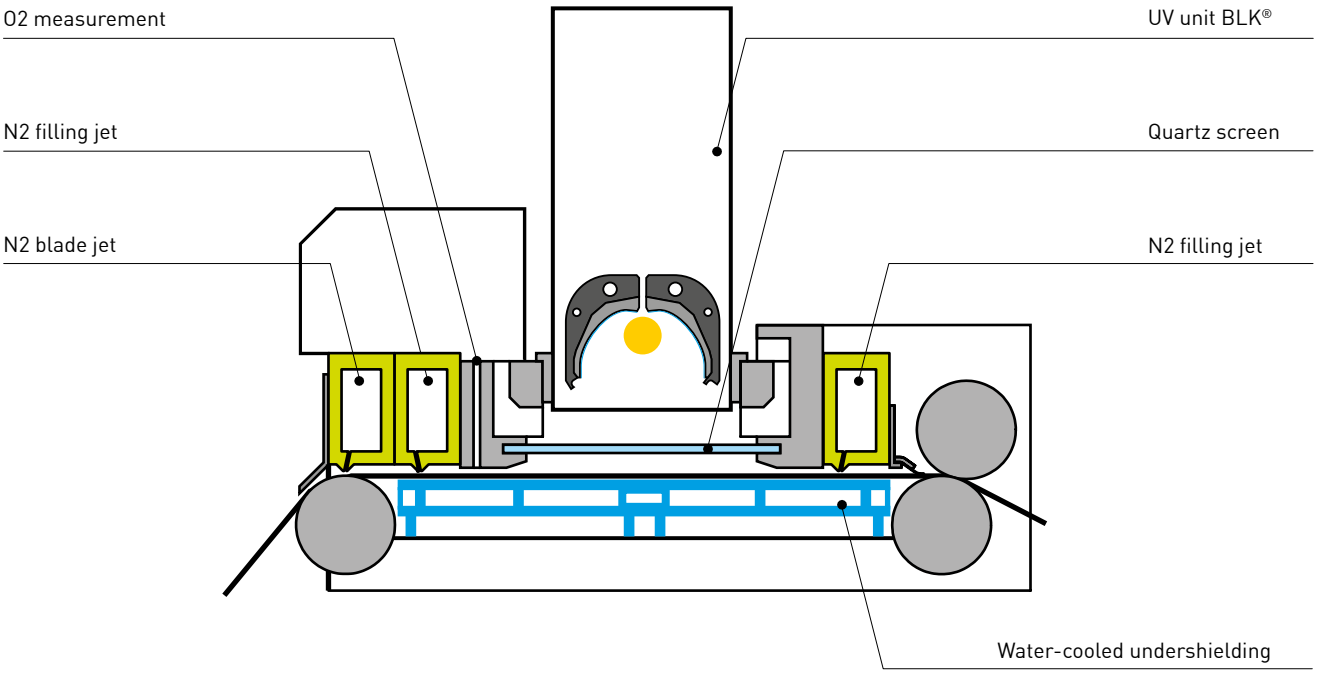
INERTED UV UNIT TO CROSS-LINK SILICONE RELEASE COATINGS

- BLK® version
- Lamp output max. 200 W/cm
- Stepless lamp control (ELC®) relative to web speed
- Residual oxygen content below 40 ppm
- Quick-change quartz screens
- Can be opened quickly for maintenance or web infeed
- Stand-by mode to reduce nitrogen consumption

Inerted UV unit for siliconisation, lamp length 600 mm


Inerted UV unit for siliconisation, lamp length 1.450 mm

INNOVATIVE DESIGN



THE MAIN FEATURES OF THE NEW AND INNOVATIVE DESIGN OF THESE NEW UV-UNITS ARE AS FOLLOWS:

- The UV-lamp housing is installed above the closed inerting chamber.
- The UV-radiation directed towards the substrate passes a quartz screen located underneath the UV-lamp housing at the top side of the inerting chamber.
- Heat management through water-cooled undershielding under the web.
- Nitrogen inlet and outlet nozzles control the inert conditions. Nitrogen consumption is extremly low as only the nitrogen lost through inlet and outlet openings must be replenished.
- The level of remaining oxygen is continually monitored to ensure optimum operating conditions.

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