

BLK-U® represents a continuous development of the established BLK®-system. Thousands of existing BLK®-systems have been successfully installed in recent years all over the world in the graphic arts industry.

The BLK-U® can be operated in a closed-cycle and can cure in either an oxygen or oxygen-reduced environment. Oxygen-reduced applications for the BLK-U® do not require any time-consuming modifications whatsoever.

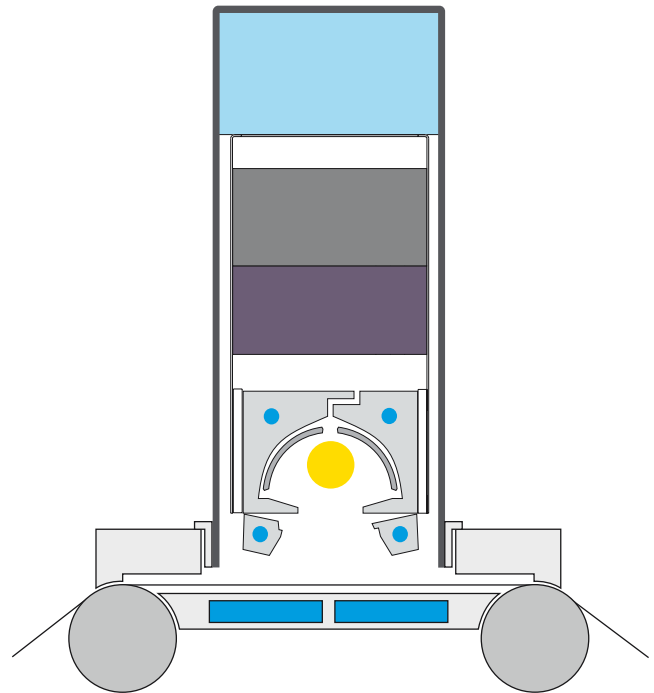
#### **Benefits:**

Closed circuit technology means

- No ambient cooling air is required
- No exhaust air ducting is required
- Very low inert gas consumption is maintained
- No dirtying of lamp and reflector which means less maintenance time
- Odour reduction as a result of low photoinitiator content
- easy application in warm air zones

The benefits of oxygen-reduced operation present fantastic new application possibilities including:

- Food packaging
- Temperature sensitive materials (forms, thermal papers, aluminium compounds)
- Cross-linking of diverse surfaces



### Additional features and benefits:

- Preparation for UV measurement – effective quality control
- Preparation for plug-in UV lamps – time saving
- Increased UV-output because of a reduced distance to the lamp and a reduced distance between reflector and substrate
- Equal cooling all over the complete lamp length – higher efficiency
- Modular design for diverse working widths – flexibility
- No quartz plate and so no transmission and refraction losses – optimum cure!
- Equipped with world renowned CMK reflectors
- Water-cooled housing manufactured from aluminium extruded profiles
- Water-cooled shutters – time saving
- Stepless lamp output control (SLC) – maximum control, minimum heat
- Maintenance friendly – time and cost saving
- Max. lamp output of 200 W/cm – high energy, optimum cure possibilities

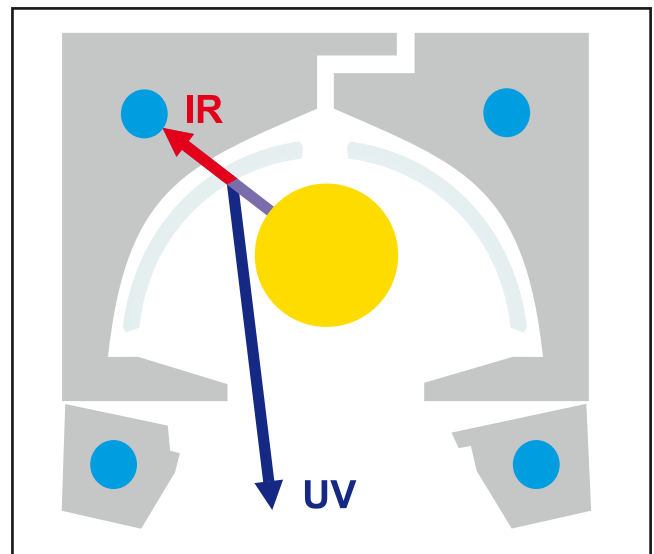


Laboratory unit BLK-U®

### The CMK-Reflector:

The special feature of CMK-reflectors (Cold Mirror Technology) is their ability to maximise reflected UV-radiation whilst transmitting IR-radiation (heat) onto a cooled absorber profile where the heat is efficiently removed.

The reflector profile is manufactured from a high-temperature-sensitive glass which is then vapour-coated with high quality oxide layers so providing excellent reflection features over the whole UV-range.



Function CMK-reflector

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