UV systems **ssr evo 7** - series

- ssr evo VII
- ssr evo 207
- ssr evo 307
- ssr evo 407

coating / finishing
surface treatment
bonding / needle bonding
IMD high quality UV curing
sterilization
ssr engineering is one of the worldwide leading companies in innovative, high performance and reliable special UV systems. Due to our long years of experience, especially in high-tech applications, our UV systems meet all expectations in processing and quality. ssr engineering evo 7 – series UV systems are designed for virtually all different kind of industrial applications.

Professional high performance UV systems

The Selective Lambda Technology offers a very pure process radiation in the UV and UV-Vis spectral area and thus providing a curing process with minimal thermal stress. As a result, the effective UV dose can be increased up to 500% before reaching the critical temperature of the substrate.

The consistent implementation of a compact design makes it the ideal UV system for integration in new and existing line equipment.

An homogeneity of ± 3% in the exposure area allows static radiation processes with hitherto unknown precision.

The UV system ssr evo VII was specifically designed for the requirements of the optical storage media industry. The evo VII is ideal for the production of high-quality HD formats such as Blu-Ray discs (BD). The consistent implementation of the compact design makes it the retro-fit system for all types of existing production facilities from CD- to the Blu-Ray-lines.

The UV system ssr evo 207 was specifically designed for the requirements of the plastic and electronic industry. The evo 207 is used for curing of clear and protective lacquers such as curing of screen printing inks. The evo 207 is ideal for the production of high-quality and sensitive products like IMD foils, scratch resist coatings and SMD components. The evo 207 is also available as “evo 207 print” version.
The UV system **ssr evo 307** was specifically designed for the requirements of the plastic and electronic industry. The evo 307 is used for curing of clear and protective lacquers such as curing of screen printing inks. The evo 307 is ideal for the production of high-quality and sensitive products like IMD foils, scratch resist coatings and SMD components. The evo 307 is also available as “**evo 307 print**” version.

The UV system **ssr evo 407 print** was specifically designed for the requirements of the graphical industry. The evo 407 print is used for curing of clear and protective lacquers such as curing of screen printing and other inks. The evo 407 print is ideal for the production of high-quality and sensitive products.

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### technical data

<table>
<thead>
<tr>
<th></th>
<th>ssr evo VII</th>
<th>ssr evo 207</th>
<th>ssr evo 307</th>
<th>ssr evo 407</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>radiation width</strong></td>
<td>150 mm</td>
<td>200 mm</td>
<td>300 mm</td>
<td>400 mm</td>
</tr>
<tr>
<td><strong>exposure area</strong></td>
<td>150 x 150 mm²</td>
<td>200 x 150 mm²</td>
<td>300 x 150 mm²</td>
<td>400 x 150 mm²</td>
</tr>
<tr>
<td><strong>specific electrical power [W/cm]</strong></td>
<td>400 spec. P</td>
<td>300 spec. P</td>
<td>270 spec. P</td>
<td>200 spec. P</td>
</tr>
<tr>
<td><strong>measures [mm]</strong></td>
<td>325 x 200 x 160</td>
<td>375 x 200 x 160</td>
<td>475 x 200 x 160</td>
<td>575 x 200 x 160</td>
</tr>
<tr>
<td><strong>weight</strong></td>
<td>7 kg</td>
<td>9 kg</td>
<td>12 kg</td>
<td>15 kg</td>
</tr>
<tr>
<td><strong>cooling air</strong></td>
<td>100 m³/h</td>
<td>120 m³/h</td>
<td>150 m³/h</td>
<td>200 m³/h</td>
</tr>
<tr>
<td><strong>pressure drop</strong></td>
<td>200 – 400 Pa</td>
<td>300 – 700 Pa</td>
<td>400 – 900 Pa</td>
<td>ca. 1200 Pa</td>
</tr>
<tr>
<td><strong>exhaust connect</strong></td>
<td>Ø 60 mm</td>
<td>Ø 60 mm</td>
<td>Ø 60 mm</td>
<td>Ø 60 mm</td>
</tr>
<tr>
<td><strong>cooling water</strong></td>
<td>2 l/min</td>
<td>2 l/min</td>
<td>3 l/min</td>
<td>3 l/min</td>
</tr>
</tbody>
</table>

**optical features**

**general features**

**Integration features**
Product features:

**pure UV**: the new optical design provides up to 100% indirect process radiation—enabling a remarkable precise process light, adjustable to any requirement

**shutter system**: the dynamic pneumatically driven shutter system enables precise process control with a shutter time of about 0.15 sec

**static exposure**: a homogeneity of up to ±3% within the exposure area ensures high precision at static and discontinuous exposure processes

**cool UV**: the innovative ssr “Selective Lambda Technology” provides an ultra cool process light, reducing the substrate temperatures by up to 70%

**easy lamp change**: the new developed lamp support needs no extra tool for mounting the lamp and ensures a totally stress free positioning of the UV lamp

**cool UV light**

**shutter system**

**easy lamp change**

**static exposure**

**high speed exposure**: high UV intensity and optimised radiation characteristics ensure best in class high speed curing performance

**temperature sensor**: the integrated temperature safety switch avoids overheating of the UV system

**top air exhaust**: this air exhaust option provides compact integration requirements and low pressure drop, reducing blower size

**“print” air exhaust**: this air exhaust option provides a full rear side cooling media supply and reduces the total height of the integration

**ssr Hg-lamp type**: this lamp type is used for coating, thin film and sterilization applications, providing high UV-C power and further reduced heat load

**ssr D-lamp type**: this “doped” lamp type provides outstanding UV-A intensity for all bonding and printing application requiring deep penetration

**ssr Ga-lamp type**: this lamp type provides ultra high intensity in UV-Vis area, providing deep penetration for thick film lacquering

**specific power**: value of specific electrical operation power [W/cm2] – in combination with suitable ssr UV lamp and ssr power supply unit

**direct radiation**: all ssr evo 7 series UV systems are available as “dr” version, providing unique process properties for all high speed applications

**ssr compatible solution**: easy retrofitting to replace BK-UV systems due to plug’nc’play interface concept – no need of any software modifications

**Technology Made in Germany!**