

HBO R & HXP R $\leq 200\text{W}$ with Reflector



Areas of application

- Laboratory & Analysis
- UV Curing
- Fiber Illumination
- Microscopy
- Solar Simulation

Product features and benefits

- High luminance / radiance with intense point source
- Broad spectral distribution in the visible and ultraviolet range
- Enhanced UV characteristics available on some types
- High arc stability





HBO R 103W

Product family datasheet

Technical data

| General Product Information | | | | |
|------------------------------------|---------------------------|---------------------------------|--------------|------------------------|
| Product description | Product number (Americas) | Product name (Americas) | Family brand | Global order reference |
| HBO R 103 W/45 | 69311 | HBOR103W45 22V 2/CS 1/SKU | HBO | HBO R 103 W/45 |
| HXP R 120 W/45 C VIS ¹⁾ | 69119 | HXP R 120 W/45 C VIS 2/CS 1/SKU | | HXP R 120 W/45 C VIS |
| HXP R 120 W/45 C UV ¹⁾ | 69120 | HXP R 120W/45C UV 2/CS 1/SKU | HXP | HXP R 120 W/45 C UV |
| HXP R 200 W/45 M ¹⁾ | 69820 | HXP R 200W 85V 45M 2/CS 1/SKU | | HXP R 200 W/45 M |

| | Electrical Data | | | Photometric Data | |
|------------------------------------|-----------------|-------------------------|--------------|------------------|-----------------------|
| Product description | Nominal wattage | Lamp voltage | Lamp current | Focal length | Nominal luminous flux |
| HBO R 103 W/45 | 103 W | 20...25 V ²⁾ | 4.0...5.0 A | 45.0 mm | |
| HXP R 120 W/45 C VIS ¹⁾ | 120 W | 60...90 V ³⁾ | 1.4 A | 45.0 mm | 2800 lm |
| HXP R 120 W/45 C UV ¹⁾ | 120 W | 60...90 V ³⁾ | 1.4 A | 45.0 mm | |
| HXP R 200 W/45 M ¹⁾ | 200 W | 60...96 V ³⁾ | 3.4 A | 45.0 mm | 4600 lm |

| Physical Attributes & Dimensions | | | | |
|------------------------------------|-------------------|--------------|----------|---------------|
| Product description | Color temperature | Lamp base | Diameter | Diameter (in) |
| HBO R 103 W/45 | | FaXP2.5-2x65 | 68.0 mm | 2.677 in |
| HXP R 120 W/45 C VIS ¹⁾ | 9500 K | - | 67.0 mm | 2.638 in |
| HXP R 120 W/45 C UV ¹⁾ | | - | 67.0 mm | 2.638 in |
| HXP R 200 W/45 M ¹⁾ | | - | 67.0 mm | |

| Product description | Diameter | Length | Product weight | Connector: presence |
|------------------------------------|----------|---------|----------------|---------------------|
| HBO R 103 W/45 | 68.0 mm | 85.0 mm | 120.00 g | |
| HXP R 120 W/45 C VIS ¹⁾ | 67.0 mm | 77.0 mm | 120.00 g | Yes |
| HXP R 120 W/45 C UV ¹⁾ | 67.0 mm | 77.0 mm | 120.00 g | Yes |
| HXP R 200 W/45 M ¹⁾ | 67.0 mm | 75.0 mm | 120.00 g | No |

| Operating Conditions | | | Lifetime Data | Environmental & Regulatory Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |
|------------------------------------|------------------|----------|------------------|--|
| Product description | Burning position | Cooling | Nominal lifetime | Primary article identifier |
| HBO R 103 W/45 | p20 | Required | 300 hr | 4050300405957 |
| HXP R 120 W/45 C VIS ¹⁾ | p20 | Forced | 2000 hr | 4050300882772 |
| HXP R 120 W/45 C UV ¹⁾ | p20 | Forced | 2000 hr | 4050300666525 |
| HXP R 200 W/45 M ¹⁾ | p20 | Forced | 2000 hr | 4008321180070 |

Product family datasheet

| Product description | Declaration no. in SCIP database | Candidate list substance 1 | CAS No. of substance 1 | Safe use instruction |
|------------------------------------|--------------------------------------|------------------------------------|------------------------|--|
| HBO R 103 W/45 | cce3d02b-c5cd-4be4-8e72-a79d159780b6 | Lead | 7439-92-1 | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| HXP R 120 W/45 C VIS ¹⁾ | No declarable substances contained | No declarable substances contained | | |
| HXP R 120 W/45 C UV ¹⁾ | No declarable substances contained | No declarable substances contained | | |
| HXP R 200 W/45 M ¹⁾ | No declarable substances contained | No declarable substances contained | | |

¹⁾ To be operated with OSRAM PT VIP EVG

²⁾ Initial electrical values

³⁾ Initial voltage range

Product family datasheet

Safety advice

Due to their high luminance, UV radiation, and high internal pressure in the hot state, HBO and HXP lamps may only be operated in enclosed lamp casings designed for their operation. Since mercury is released if the lamp breaks, special safety precautions must be taken. More information is available upon request, or can be found in the leaflet or operating instructions included with the lamp. You can also review our Product Safety Guide.

Application advice

For more detailed application information and graphics please see product datasheet.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.