

XBO R \leq 450W with Reflector

Intense point source with precision pre-aligned reflector that provides a broad, continuous spectrum and has near perfect color rendering in the visible range



Areas of application

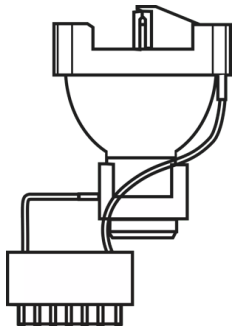
- Endoscopy
- Microscopy
- Surgical Headlamps
- Fiber Illumination
- Solar Simulation
- Imaging & Scanning

Product features and benefits

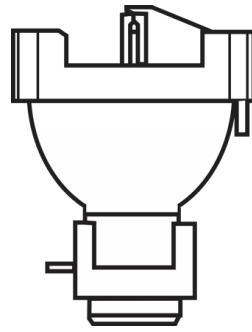
- High luminance / radiance with intense point source
- Broad, continuous spectral distribution
- High color rendering > 95
- High arc stability
- DC operation
- Hot restart capability
- Dimmable over a wide range
- Long lamp life



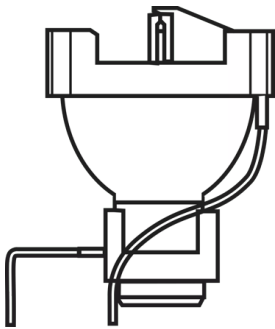
Product family datasheet



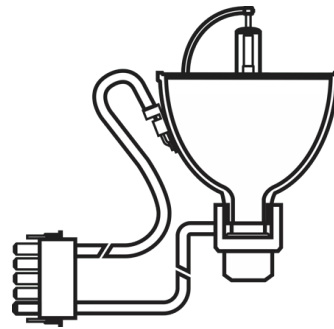
XBO XENON SHORT ARC LAMPS



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Product family datasheet

Technical data

Product description	General Product Information			
	Product number (Americas)	Product name (Americas)	Family brand	Global order reference
XBO R 100 W/45 C ¹⁾	69191	XBO R 100W/45C OFR 2/CS 1/SKU	XBO	XBO R 100 W/45 C
XBO R 100 W/45 OFR ¹⁾	69197	XBO R 100W/45 OFR 2/CS 1/SKU	XBO	XBO R 100 W/45 OFR
XBO R 101 W/45 C OFR ¹⁾	69190	XBO R 101W/45C OFR 2/CS 1/SKU	XBO	XBO R 101 W/45 C OFR
XBO R 180 W/45 ¹⁾	69186	XBO R 180W/45/OFR 2/CS 1/SKU	XBO	XBO R 180 W/45
XBO R 180 W/45 C OFR ¹⁾	69183	XBO R 180W/45C OFR 2/CS 1/SKU		XBO R 180 W/45 C OFR
XBO R 181 W/45 C ¹⁾	69184	XBO R 181W/45C OFR 2/CS 1/SKU	XBO	XBO R 181 W/45 C
XBO R 300 W/60 C OFR ¹⁾	69167	XBO R 300W/60C OFR 2/CS 1/SKU	XBO	XBO R 300 W/60 C OFR

Product description	Lamp type	Electrical Data			
		Nominal wattage	Lamp voltage	Lamp current	Type of current
XBO R 100 W/45 C ¹⁾		100 W	12...14 V ²⁾	7.0...7.4 A	DC
XBO R 100 W/45 OFR ¹⁾	W/REFLECTOR	100 W	12...14 V ²⁾	7.0...7.4 A	DC
XBO R 101 W/45 C OFR ¹⁾		101 W	12...14 V ²⁾	7.0...7.4 A	DC
XBO R 180 W/45 ¹⁾	W/REFLECTOR	180 W	12.8...14.8 V ²⁾	11.75...12.25 A	DC
XBO R 180 W/45 C OFR ¹⁾		180 W	12.8...14.8 V ²⁾	11.75...12.25 A	DC
XBO R 181 W/45 C ¹⁾		181 W	12.8...14.8 V ²⁾	11.75...12.25 A	DC
XBO R 300 W/60 C OFR ¹⁾	W/REFLECTOR	300 W	16...20 V ²⁾	18.0 A	DC

Product description	Photometric Data			
	Nominal luminous flux	Color temperature	Color rendering index Ra	Focal length
XBO R 100 W/45 C ¹⁾	530 lm	6000 K	98	45.0 mm
XBO R 100 W/45 OFR ¹⁾	530 lm	6000 K	98	45.0 mm
XBO R 101 W/45 C OFR ¹⁾	530 lm	6000 K	98	45.0 mm
XBO R 180 W/45 ¹⁾	800 lm	6000 K	>90	45.0 mm
XBO R 180 W/45 C OFR ¹⁾	800 lm	6000 K	>90	45.0 mm
XBO R 181 W/45 C ¹⁾	800 lm	6000 K	>90	45.0 mm
XBO R 300 W/60 C OFR ¹⁾	1500 lm	6200 K	95	60.0 mm

Product description	Physical Attributes & Dimensions			
	Lamp base	Diameter	Diameter (in)	Diameter
XBO R 100 W/45 C ¹⁾	FaXP2.5-2x65	64.0 mm	2.520 in	64.0 mm
XBO R 100 W/45 OFR ¹⁾	SPEZIAL	64.0 mm	2.520 in	64.0 mm

Product family datasheet

Product description	Physical Attributes & Dimensions			
	Lamp base	Diameter	Diameter (in)	Diameter
XBO R 101 W/45 C OFR ¹⁾	FaXP2.5-2x65	64.0 mm	2.520 in	64.0 mm
XBO R 180 W/45 ¹⁾	FaXP2.5	64.0 mm	2.520 in	64.0 mm
XBO R 180 W/45 C OFR ¹⁾	FaXP2.5-2x65	64.0 mm	2.520 in	64.0 mm
XBO R 181 W/45 C ¹⁾	FaXP2.5-2x65	64.0 mm	2.520 in	64.0 mm
XBO R 300 W/60 C OFR ¹⁾	FaXP2.5-2x65	82.0 mm	3.228 in	82.0 mm

Product description	Length	Connector: presence	Product weight	Operating Conditions
				Cooling
XBO R 100 W/45 C ¹⁾	93.0 mm	Yes	82.50 g	Forced
XBO R 100 W/45 OFR ¹⁾	93.0 mm		110.00 g	Forced
XBO R 101 W/45 C OFR ¹⁾	93.0 mm	Yes	120.00 g	Forced
XBO R 180 W/45 ¹⁾	90.0 mm		120.00 g	Forced
XBO R 180 W/45 C OFR ¹⁾	90.0 mm	Yes	120.00 g	Forced
XBO R 181 W/45 C ¹⁾	90.0 mm	Yes	137.00 g	Forced
XBO R 300 W/60 C OFR ¹⁾	106.0 mm	Yes	150.00 g	Forced

Product description	Lifetime Data		Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
	Average life - horizontal	Nominal lifetime	Primary article identifier	Declaration no. in SCIP database
XBO R 100 W/45 C ¹⁾	500 hr		4050300367767	73407a33-6ed3-4b8a-9bb2-de48a2df4448
XBO R 100 W/45 OFR ¹⁾	500 hr	500 hr	4050300317205	0ff25872-96e7-47f8-91ee-ef959f627d3e
XBO R 101 W/45 C OFR ¹⁾	500 hr	400 hr	4050300388458	e007ecc9-b293-4f70-a7be-56b8121cf256
XBO R 180 W/45 ¹⁾	500 hr		4050300432175	7a27a89e-c594-4d6f-8bcf-6110af0cbf1a
XBO R 180 W/45 C OFR ¹⁾	500 hr		4052899315198	1f887543-d77b-48a7-a530-3ecca5ce8820
XBO R 181 W/45 C ¹⁾	500 hr		4050300450872	0fdd7105-1036-4453-8fb0-781248736f2a
XBO R 300 W/60 C OFR ¹⁾	1000 hr	1000 hr	4008321966179	f7e5b4d9-fc63-4525-a79e-eedfbf53f794

Product description	Candidate list substance 1	CAS No. of substance 1	Safe use instruction
XBO R 100 W/45 C ¹⁾	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

Product family datasheet

Product description	Candidate list substance 1	CAS No. of substance 1	Safe use instruction
XBO R 100 W/45 OFR ¹⁾	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO R 101 W/45 C OFR ¹⁾	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO R 180 W/45 ¹⁾	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO R 180 W/45 C OFR ¹⁾	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO R 181 W/45 C ¹⁾	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO R 300 W/60 C OFR ¹⁾	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

¹⁾ OFR = Ozone-free version

²⁾ Initial voltage range

Product family datasheet

Safety advice

Because of their high luminance, UV radiation and high internal pressure in both the hot and cold state, XBO lamps must only be operated in appropriate enclosed casings. Always use the protective jackets supplied when handling these lamps. They may only be used as open lamps if appropriate safety measures are taken. More information is available on request or can be found in the leaflet included with the lamp or the operating instructions.

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.