

XBO $\leq$ 450 W Double End



Areas of application

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

Product features and benefits

- High luminance / radiance with intense point source
- Color temperature approximately 6000 K (daylight) consistent through the life of the lamp
- High color rendering index: $R_a >$
- High arc stability
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- Hot restart capability
- Dimmable over a wide range
- Long lamp life





XBO XENON SHORT ARC LAMPS



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Product family datasheet

Technical data

General Product Information				
Product description	Product number (Americas)	Product name (Americas)	Family brand	Lamp type
XBO 75 W/2	69231	XBO 75W/2 14V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 75 W/2 OFR ¹⁾	69232	XBO 75W/2 OFR 14V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 100 W OFR ¹⁾	69233	XBO 100W OFR 14V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 150 W/4 ²⁾	69238	XBO 150W/4 20V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 150 W/1	69234	XBO 150W/1 20V 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 150 W/CR OFR ¹⁾	69237	XBO 150W/CR OFR 10/CS 1/SKU	XBO	DOUBLE ENDED
XBO 150 W/1 OFR ¹⁾				

		Electrical Data			
Product description	Global order reference	Nominal wattage	Lamp voltage	Lamp current	Type of current
XBO 75 W/2	XBO 75 W/2	75 W	12...16 V ³⁾	4.9...5.9 A	DC
XBO 75 W/2 OFR ¹⁾	XBO 75 W/2 OFR	75 W	12...16 V ³⁾	4.9...5.9 A	DC
XBO 100 W OFR ¹⁾	XBO 100 W OFR	100 W	12.8...14.4 V ³⁾	7.0...7.4 A	DC
XBO 150 W/4 ²⁾	XBO 150 W/4	150 W	17...21 V ³⁾	7.5 A	DC
XBO 150 W/1	XBO 150 W/1	150 W	17...21 V ³⁾	7.5 A	DC
XBO 150 W/CR OFR ¹⁾	XBO 150 W/CR OFR	150 W	15...18 V ³⁾	8.5 A	DC
XBO 150 W/1 OFR ¹⁾	XBO 150 W/1 OFR	150 W	17...21 V ³⁾	7.5 A	DC

Photometric Data				
Product description	Nominal luminous flux	Luminous intensity	Color temperature	Color rendering index Ra
XBO 75 W/2	1000 lm	100 cd ⁴⁾	6000 K	98
XBO 75 W/2 OFR ¹⁾	1000 lm	100 cd ⁴⁾	6000 K	98
XBO 100 W OFR ¹⁾	1900 lm	270 cd ⁴⁾	6000 K	98
XBO 150 W/4 ²⁾	3000 lm	300 cd ⁴⁾	6000 K	98
XBO 150 W/1	3000 lm	300 cd ⁴⁾	6000 K	98
XBO 150 W/CR OFR ¹⁾	2900 lm	290 cd ⁴⁾	6000 K	98
XBO 150 W/1 OFR ¹⁾	3000 lm	300 cd ⁴⁾	6000 K	98

Physical Attributes & Dimensions				
Product description	Light center length (LCL)	Electrode gap (cold)	Base (anode)	Base (cathode)
XBO 75 W/2	37.0 mm ⁵⁾	0.9 mm	SFa9-2	SFa7.5-2
XBO 75 W/2 OFR ¹⁾	37.0 mm ⁵⁾	0.9 mm	SFa9-2	SFa7.5-2
XBO 100 W OFR ¹⁾	44.5 mm ⁶⁾	0.9 mm	SFa9-2	SFa7.5-2
XBO 150 W/4 ²⁾	57.0 mm ⁵⁾	2.5 mm	SFc12-4	SFcX12-4

Product family datasheet

Product description	Light center length (LCL)	Physical Attributes & Dimensions		
		Electrode gap (cold)	Base (anode)	Base (cathode)
XBO 150 W/1	57.0 mm ⁵⁾	2.5 mm	SFc12-4	SFcX12-4
XBO 150 W/CR OFR ¹⁾	57.0 mm ⁵⁾	2.0 mm	SFc12-4	SFcX12-4
XBO 150 W/1 OFR ¹⁾	57.0 mm ⁵⁾	2.5 mm	SFc12-4	SFcX12-4

Product description	Diameter	Diameter	Diameter (in)	Length
XBO 75 W/2	10.0 mm	10.0 mm	39.331 in	90.0 mm
XBO 75 W/2 OFR ¹⁾	10.0 mm	10.0 mm	39.331 in	90.0 mm
XBO 100 W OFR ¹⁾	11.0 mm	11.0 mm	39.331 in	90.0 mm
XBO 150 W/4 ²⁾	20.0 mm	20.0 mm	39.331 in	150.0 mm
XBO 150 W/1	20.0 mm	20.0 mm	39.331 in	150.0 mm
XBO 150 W/CR OFR ¹⁾	20.0 mm	20.0 mm	39.331 in	150.0 mm
XBO 150 W/1 OFR ¹⁾	20.0 mm	20.0 mm	39.331 in	150.0 mm

Product description	Product weight	Operating Conditions	Lifetime Data	
		Cooling	Nominal lifetime	Average life - vertical
XBO 75 W/2	11.00 g	Convection	400 hr	400 hr
XBO 75 W/2 OFR ¹⁾	11.00 g	Convection	400 hr	400 hr
XBO 100 W OFR ¹⁾	12.00 g	Convection		500 hr
XBO 150 W/4 ²⁾	100.00 g	Forced	1200 hr	1200 hr
XBO 150 W/1	75.00 g	Forced	1200 hr	1200 hr
XBO 150 W/CR OFR ¹⁾	100.00 g	Forced	2000 hr	3000 hr
XBO 150 W/1 OFR ¹⁾	75.00 g	Forced	1200 hr	

Product description	Average life - horizontal	Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)		
		Primary article identifier	Declaration no. in SCIP database	Candidate list substance 1
XBO 75 W/2	400 hr	4050300508801	4ac7a63a-e5e9-4801-860e-a51fd4360dc8	Lead
XBO 75 W/2 OFR ¹⁾	400 hr	4050300508825	536f5044-6629-4551-b556-81347c0c9dfe	Lead
XBO 100 W OFR ¹⁾	500 hr	4008321386328	ac5c5363-ba12-4018-9516-c8896069720e	Lead
XBO 150 W/4 ²⁾		4050300508382	233c237a-3183-44a5-b9da-6dd186a65e22	Lead
XBO 150 W/1		4050300508344	75ef93b8-ccc0-42e0-b2d3-612d7c703382	Lead
XBO 150 W/CR OFR ¹⁾	1200 hr	4050300508788	f2c3d120-bbcb-487e-b775-f616dd801eac	Lead
XBO 150 W/1 OFR ¹⁾		4050300508368	In work	

Product family datasheet

Product description	CAS No. of substance 1	Safe use instruction
XBO 75 W/2	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 75 W/2 OFR ¹⁾	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 100 W OFR ¹⁾	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 150 W/4 ²⁾	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 150 W/1	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 150 W/CR OFR ¹⁾	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
XBO 150 W/1 OFR ¹⁾		

¹⁾ OFR = Ozone-free version

²⁾ Lamp uses a special quality of quartz glass, known as SUPRASIL, which – in comparison to conventional quartz – provides higher transmission below 250 nm

³⁾ Initial voltage range

⁴⁾ Typical initial photometric value

⁵⁾ Distance from end of base to tip of electrode (cold)

⁶⁾ Distance from end of base to tip of anode (cold)

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.