

## HBO-IC Microlithography lamps for Nikon LCD systems

Microlithography lamps for Nikon LCD systems



330868\_HBO 4300WNHL



327061\_HBO 12000WNi



Product family datasheet

Technical data

Product description	Electrical data					Dimensions & weight	
	Nominal voltage	Nominal current	Type of current	Rated wattage	Nominal wattage	Diameter	Length
HBO 4300 W/NHL	540 V	8000 A	DC	430000 W	430000 W	8000 mm	3870 mm
HBO 4301 W/NHL	620 V	69 A	DC	430000 W	4300.00 W	8000 mm	3890 mm
HBO 5000 W/N	620 V	81 A	DC	500000 W	500000 W	8000 mm	3890 mm
HBO 12000 W/NIL	101 V	99 A	DC	1000000 W	1200000 W	1310 mm	4750 mm
HBO 13500 W/N	120 V	112 A	DC	1350000 W	1350000 W	1240 mm	5240 mm

Product description	Electrode gap cold	Mounting length	Length with base excl. base pins/connection	Light center length (LCL)	Capabilities
					Burning position
HBO 4300 W/NHL	5.0 mm				Other
HBO 4301 W/NHL	5.0 mm				Other <sup>1)</sup>
HBO 5000 W/N	6.0 mm				Other
HBO 12000 W/NIL	14.0 mm	515.0 mm			Other
HBO 13500 W/N	11.0 mm	530.0 mm	508.00 mm	152.0 mm	Other

Product description	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)			
	Date of Declaration	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1
HBO 4300 W/NHL	06-03-2024	4008321281159   4008321857002	Lead	7439-92-1
HBO 4301 W/NHL	05-03-2024	4008321378415	Lead	7439-92-1
HBO 5000 W/N	05-03-2024	4008321591777   4008321786791	Lead	7439-92-1
HBO 12000 W/NIL	05-03-2024	4008321687517	Lead	7439-92-1
HBO 13500 W/N	06-03-2024	4052899132405   4052899422575	Lead	7439-92-1

Product description	Safe Use Instruction	Declaration No. in SCIP database
HBO 4300 W/NHL	The identification of the Candidate List substance is sufficient to allow safe use of the article.	3c9b190e-a63d-444d-9cbd-1938f259e251   281edb64-c176-4cdf-8b5c-184d74ec6173

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Product description	Safe Use Instruction	Declaration No. in SCIP database
HBO 4301 W/NHL	The identification of the Candidate List substance is sufficient to allow safe use of the article.	a4085612-3116-405c-a656-97ed7c686917
HBO 5000 W/N	The identification of the Candidate List substance is sufficient to allow safe use of the article.	37ce2d8b-4310-47e2-aa93-2d17a4c1a698   260003be-f0fc-4ae3-aa2b-f70cb8f7af47
HBO 12000 W/NIL	The identification of the Candidate List substance is sufficient to allow safe use of the article.	979fe7f6-cb14-4ddb-8e3b-2189f4f0c4bd
HBO 13500 W/N	The identification of the Candidate List substance is sufficient to allow safe use of the article.	45e7c28c-0226-492e-99da-9a6decf04550   f8426a0d-d5e7-48ec-a9d7-a5b866582872

1) Anode on top

## Product family datasheet

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### Safety advice

Because of their high luminance, UV radiation and high internal pressure (when hot) HBO lamps may only be operated in enclosed lamp casings specially constructed for the purpose. Mercury is released if the lamp breaks. Special safety precautions must be taken. More information is available on request or can be found in the leaflet included with the lamp or in the operating instructions.

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### Application advice

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

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### Disclaimer

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