HBO-IC Microlithography lamps for ASML i-line systems

Microlithography lamps for ASML i-line systems

Product family datasheet

Technical data

	Electrical data					Dimensions & weight	
Product description	**Nominal voltage**	**Nominal current**	**Type of current**	**Rated wattage**	**Nominal wattage**	**Diameter**	**Length**
HBO 1003 W/PIL	27.1 V	25.8 A	DC	700.00 W	700 W ... 1000 W	29.0 mm	195.0 mm
HBO 1500 W/PIL	23.0 V	65.00 A	DC	1500.00 W	1500.00 W	46.0 mm	273.0 mm
HBO 2100 W/PIL	24.0 V	78 A	DC	2100.00 W	2100.00 W	52.0 mm	240.0 mm
HBO 2500 W/PIL	28.0 V	90 A	DC	2500.00 W	2500.00 W	62.0 mm	340.0 mm
HBO 3500 W/PIL	23.0 V	148 A	DC	3400.00 W	3400.00 W	77.0 mm	360.0 mm

					Additional product data
Product description	**Mounting length**	**Length with base excl. base pins/connection**	**Light center length (LCL)**	**Electrode gap cold**	**Base anode (standard designation)**
HBO 1003 W/PIL	195.0 mm	167.50 mm	85.0 mm [1)]	3.0 mm	SFcX14-6/25 [2)]
HBO 1500 W/PIL	273.0 mm	240.00 mm	118.0 mm [1)]	4.0 mm	SFc30-6/25 [6)]
HBO 2100 W/PIL	273.0 mm	240.00 mm	118.0 mm [1)]	4.0 mm	
HBO 2500 W/PIL		312.50 mm	149.0 mm [1)]	7.0 mm	SFa30-6/50 [7)]
HBO 3500 W/PIL		320.00 mm	154.0 mm [1)]	4.5 mm	SFaX40-6/50 [7)]

		Capabilities		Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)
Product description	**Base cathode (standard designation)**	**Cooling**	**Burning position**	**Date of Declaration**
HBO 1003 W/PIL	SFc15-6/25 [3)]	Forced [4)]	Other [5)]	05-03-2024
HBO 1500 W/PIL	SFc27-10/35	Forced [4)]	Other [5)]	05-03-2024
HBO 2100 W/PIL			Other [5)]	05-03-2024
HBO 2500 W/PIL	SFc30-6.5/50	Forced [4)]	Other [8)]	05-03-2024
HBO 3500 W/PIL	SFc32.5-6.7/50	Forced [4)]	Other [8)]	05-03-2024

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Product description	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction
HBO 1003 W/PIL	4050300461380 | 4050300967097	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
HBO 1500 W/PIL	4050300461465 | 4050300801308 | 4050300967103 | 4008321630872	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
HBO 2100 W/PIL	4050300800431	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
HBO 2500 W/PIL	4050300947396	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
HBO 3500 W/PIL	4008321355836 | 4008321355843	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

Product description	Declaration No. in SCIP database
HBO 1003 W/PIL	b9c92b80-c1d8-4748-8fda-1d2d66728131 | 31a5877e-d4ec-4106-b4a4-a38a88565ee5
HBO 1500 W/PIL	e22d7304-fdce-45fd-8d2a-6aa5291d1a5b | d36bbc5d-42c8-43bc-a0b2-b64742e4d075 | 910a2e30-b741-4571-8470-190c5ee7888d
HBO 2100 W/PIL	e65b3165-1b6a-4da8-9fd8-852bef40597d
HBO 2500 W/PIL	7eee76a5-c4d5-4b9f-b456-ddffe12f4ebb

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Product description	Declaration No. in SCIP database
HBO 3500 W/PIL	524e5e1f-27b9-4bac-9f5e-5502c763034c | 34bb99bc-0897-4e24-883a-0817db1e7cd5

1) Distance from end of base to tip of anode or cathode (cold)

2) With cooling fins

3) With thread (M6)

4) Maximum permissible base temperature: 200 °C

5) Anode underneath

6) Cooling fins and cable connection (M 8)

7) With cooling fins and cable connection (M 10)

8) Anode on top

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.

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.