



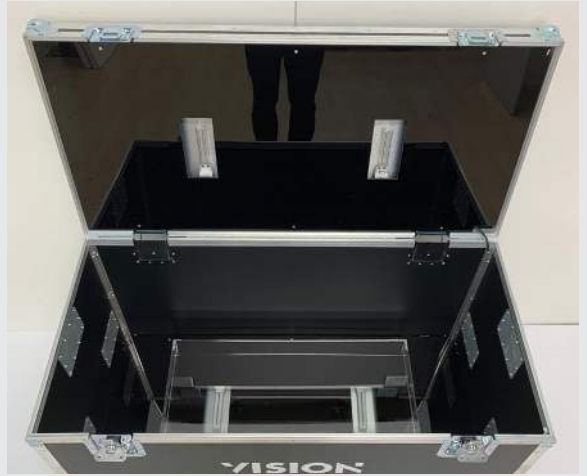
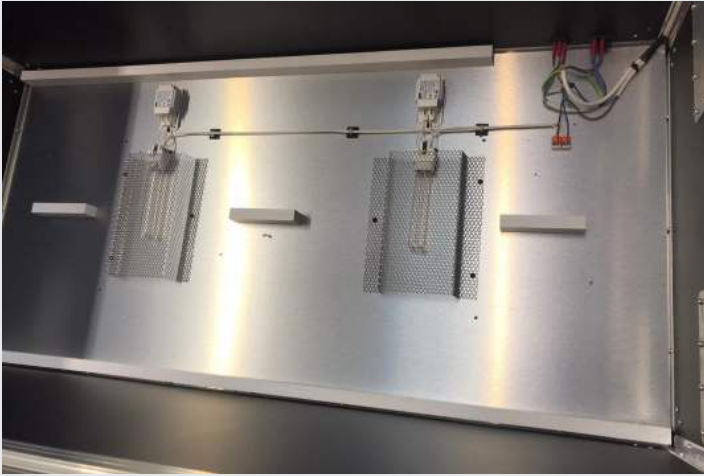
UV-C Sterilizer Light Box



This box is a safe device with UV-C system for the sterilization of masks and all your personal items (e.g. telephones, keys, credit cards, tablets, smart watches, earphones, clothes and practically any other object suitable for the box).

This box uses UV-C lamps, controlled and managed by a timer to allow the lamps to sterilize, which are also used in residential water and water disinfection units.





OSRAM UV-C 9W LAMP ARTICLE PURITEC HNS S 9 W G23

PURITEC HNS UV-C | UV-C lamps for purification



Areas of application

- Efficient disinfecting of air, water and surfaces



Product family benefits

- Effective and environment-friendly disinfection without chemicals
- Low mercury content
- Long lifetime due to specific coating
- Ozone-free

Product family features

- Dominant wavelength: 254 nm (OFR version)

Product datasheet

Capabilities

Dimmable	No
Burning position	Any

Country specific categorizations

Order reference	9W G23 10X1 3LA
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Country specific information

Product code	METEL code	SEG number	STK number	UK Org
4050300941226	OSR4050300941226	8333712	4933109	-
4050300941226	OSR4050300941226	8333712	4933109	-

OSRAM UV-C 9W LAMP ARTICLE PURITEC HNS S 9 W G23

Product information

Order reference	9W G23 10X1 3LA
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Electrical data

Nominal voltage	60.0 V
Lamp voltage	60 V
Construction voltage	60.00 V
Nominal current	0.18 A
Lamp current	0.18 A
Nominal wattage	9.00 W

Photometrical data

Luminous intensity	7800 cd
Radiated power 200...280 nm (UVC)	2.5 W

Dimensions & weight



Diameter	28.0 mm
Length	165.5 mm

Lifespan

Lifespan	8000 h
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Additional product data

Base (standard designation)	G23
Product remark	UV irradiance 253.7 nm measured at a distance of 1 m at mid-lamp level, at 20 ° C ambient temperature, free-burning. Between 0.3...3.0 m, the irradiance is inversely proportional to the square of the distance

OSRAM UV-C 9W LAMP ARTICLE PURITEC HNS S 9 W G23

Safety advice

PURITEC germicidal lamps emit high-intensity UV radiation that can cause sunburn and conjunctivitis. The skin and eyes must therefore not be exposed to direct or reflected unfiltered radiation.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	VolumeG	ross weight
4050300941226	HNS S 9 W G23	Folding carton box 1	36 mm x 23 mm x 171 mm	0.14 dm ³	41.00 g
4008321244406	HNS S 9 W G23	Shipping carton box 10	125 mm x 183 mm x 80 mm	1.83 dm ³	451.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

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



Purification with UV Light

Benefits

Long life and high germicidal efficiency for surface sterilization, air and water purification.

PURITEC HNS UV-C lamps

UVC alternatives to chemical purification

OSRAM PURITEC HNS germicidal lamps for a wide range of applications

OSRAM PURITEC HNS are low-pressure lamps that emit mercury line radiation mainly in the short-wave ultraviolet range. They are the highly promising eco-friendly alternatives to chemical purification processes. OSRAM offers many different lamps for effective purification in a wide range of applications. OSRAM PURITEC HNS are available in different sizes and outputs to suit different requirements.

Working principle of UV-C lamps

UV-C radiation has a photolytic effect on DNA, micro-organisms such as bacteria, moulds, yeasts and virus cannot replicate. The purification effect is obtained with wavelengths below 320 nm, with maximum effectiveness at 260 nm. OSRAM HNS germicidal lamps emit light at 254 nm, about 85% of maximum effectiveness, and are ozone-free.

OSRAM PURITEC HNS UV-C lamps for purification

The UV-C radiation generated by high-energy UV-C lamps moves at a wavelength range between 200 nanometers (nm) and 280 nanometers. This gives the radiation a cell-destroying effect that is ideal for highly effective purification of water, air and surfaces and eliminates the need for chemical products.

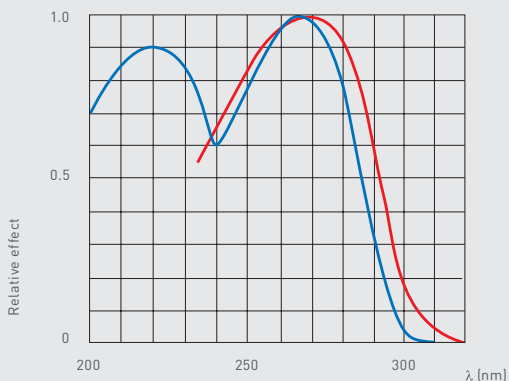
Ozone-free lamps

The main lines in the spectrum are at 254 nm and 185 nm. Ultraviolet light, which has a wavelength of less than 240 nm, produces ozone. High-energy radiation below 240 nm can pass through quartz.

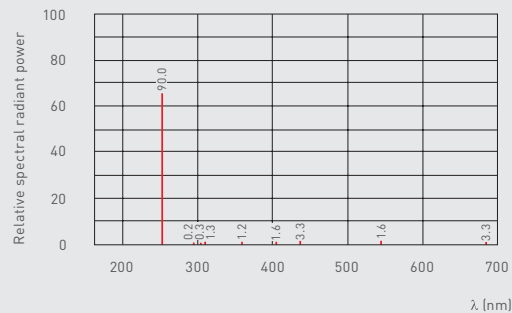
If ozone is not required then special glass or appropriate types of quartz are used. OSRAM PURITEC HNS are ozone-free lamps. They are transparent for the radiation that kills micro-organisms but do not let ozone-generating radiation through.

Functions

- General elimination of bacteria
- Deactivation of escherichia coli



Spectral power distribution of ozone-free lamps



PURITEC HNS UV-C lamps



- Efficient at disinfecting air, water and surfaces
- Effective and environmentally friendly disinfection without chemicals
- Low mercury content
- Long lifetime thanks to special high-quality coating of the glass bulb
- 4W-60W

Product benefits

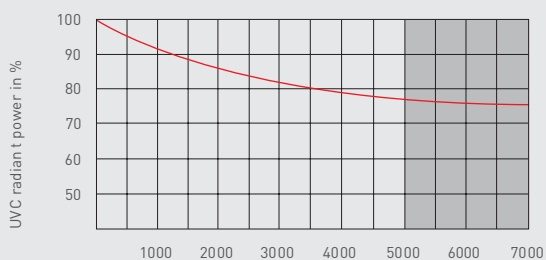
- Effective, environmentally friendly purification without chemicals
- Long lifetime due to specific coating
- Wide range of form factors
- Perfect ballast and lamp fit
- Very low mercury content
- 100% RoHS-conform
- Lead-free
- Ozone-free
- „Made in Europe“

Product features

- Single UV-C peak at wavelength of 254nm
- High efficiency (30% UV-C output)
- Non-ozone generating
- Soft glass tube
- With UV-C transparent long-life coating
- Without fluorescent coating
- Low pressure Hg discharge lamps

Areas of application

Decrease in UVC radiation for the HNS 55 W G13 HO



Switching cycle 165 minutes on, 15 minutes off. burning time in hours

Water purification

Water must often be rid of pathogenic microorganisms to become safe for drinking. Ultraviolet radiation is employed to change the DNA structure of the microorganisms, either killing the bacteria immediately or rendering them unable to breed. Because UV purification is a physical disinfection method, without any harmful chemicals, it doesn't cause secondary pollution. This means there is no malodorous smell in the water or by-products.

For water purification and cleansing in:

- Private households
- Water dispensers
- Community water works
- Mobile stations (camping, outdoor activities)
- Swimming pools
- Ultra-pure water systems
- Ponds and aquariums
- Fish farms
- Food processing factories
- Sewage systems

PURITEC HNS UV-C lamps

Surface cleaning

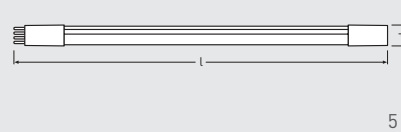
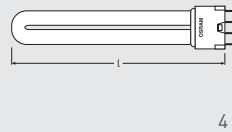
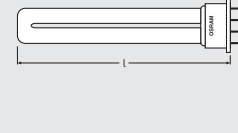
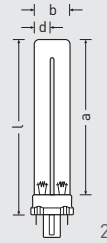
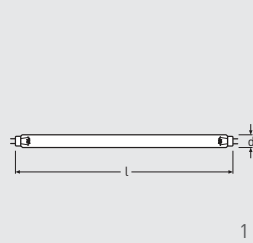
For packaging pharmaceuticals and food, in aseptic zones in hospitals and for surface cleaning of equipment and instrument objects are exposed directly to UV radiation.

For surface purification in:

- Hospitals and other aseptic zones
- Health care
- Food and pharmaceutical industry



PURITEC HNS UV-C lamps



PURITEC® HNS® UV-C

Product name	GTIN (EAN)	W	A	d (mm)	l (mm)				
HNS 4 W G5	4008321378316	4	0.17	16	136	G5	0.9	25	1
HNS 6 W G5	4008321378330	6	0.16	16	212	G5	1.7	25	1
HNS 8 W G5	4008321378385	8	0.15	16	288	G5	2	25	1
HNS 11W G5	4008321468796	11	0.41	16	212	G5	2.5	25	1
HNS 16 W G5	4008321620774	16	0.43	16	288	G5	4	25	1
HNS S 5 W G23 ¹⁾	4008321229946	5	0.18	28	108	G23	1.3	10	2
HNS S 7 W G23 ¹⁾	4050300941202	7	0.18	28	135.5	G23	1.8	10	2
HNS S 9 W G23 ¹⁾	4050300941226	9	0.18	28	165.5	G23	2.5	10	2
HNS S 11 W G23 ¹⁾	4050300941240	11	0.16	28	235.5	G23	3	10	2
HNS S/E 7 W 2G7	4008321383891	7	0.18	28	112	2G7	1.9	10	3
HNS S/E 9 W 2G7	4008321384911	9	0.17	28	142	2G7	2.5	10	3
HNS S/E 11 W 2G7	4008321384935	11	0.15	28	212	2G7	3.6	10	3
HNS S 13 W GX23	4052899040410	13	0.28	28	179	GX23	3.4	10	
HNS L 18 W 2G11	4008321220431	18	0.38	40	214	2G11	5.5	10	4
HNS L 24 W 2G11	4008321220561	24	0.35	40	314.5	2G11	7.3	10	4
HNS L 36 W 2G11	4008321220684	36	0.44	40	408	2G11	10.8	10	4
HNS L 55 W 2G11	4052899012394	55	0.55	40	533	2G11	17	10	4
HNS L 60 W 2G11	4052899012462	60	0.8	40	408	2G11	19	10	4
HNS L 95 W 2G11	4052899012509	95	0.8	40	533	2G11	27	10	4
HNS 15W G13	4008321770271	15	0.33	26	438	G13	4	25	1
HNS 30W G13	4008321770301	30	0.36	26	895	G13	12	25	1
HNS 36W G13	4052899084018	36	0.44	26	1200	G13	15	25	1
HNS 55W G13	4052899083936	55	0.77	26	895	G13	18	25	1
HNS 16W 4P SE	4052899437586	16	0.44	16	320.3	4P SE	4	40	5
HNS 20W 4P SE	4052899437562	20	0.45	16	430	4P SE	6	40	5
HNS 36W 4P SE	4052899437630	36	0.43	16	845.4	4P SE	14	40	5

¹⁾ UV irradiance 253.7 nm measured at a distance of 1 m at mid-lamp level, at 20 ° C ambient temperature, free-burning. Between 0.3...3.0 m, the irradiance is inversely proportional to the square of the distance

Warning: PURITEC® HNS® (UVC) lamp classification according IEC/EN 62471 (photo biological risk): Risk Group 3
 The radiation from PURITEC® HNS® lamps poses a health risk. It can cause conjunctivitis and erythema (sunburn) after only brief exposure. The skin and eyes must be protected against direct exposure. Suitable protective clothing must therefore be worn in rooms that do not offer direct protection. If germicidal lamps are used to purify rooms in which food is kept the relevant food regulations governing the use of germicidal lamps must be followed. UVC lamps are not be used for General Lighting application.

PURITEC HNS UV-C lamps

OSRAM ballasts for PURITEC® HNS® lamps

OSRAM as a system provider with know-how in lamp and ECG development offers VDE-accredited single and twin lamp ballasts for a wide range of different lamps.

Product benefits

- High performance
- Long lifetime
- Easy, quick and economic upgrade to energy-efficient ECG operation



OSRAM PURITEC® HNS® UV-lamps ECG Overview

Product name	Product number	Single lamp ballast	Product number	Twin lamp ballast	Product number
PURITEC HNS 4W G5	4008321378316	QT-ECO 1x4-16/220-240 S QT-ECO 1x4-16/220-240 L	4050300638584 4050300660370		
PURITEC HNS 6W G5	4008321378330	QT-ECO 1x4-16/220-240 S QT-ECO 1x4-16/220-240 L	4050300638584 4050300660370	QT-ECO 2x5-11/220-240 S	4050300821504
PURITEC HNS 8W G5	4008321378385	QT-ECO 1x4-16/220-240 S QT-ECO 1x4-16/220-240 L	4050300638584 4050300660370	QT-ECO 2x5-11/220-240 S	4050300821504
PURITEC HNS 11W G5	4008321468796	QTP - Optimal 1x18 - 40	4008321873743		
PURITEC HNS 16W G5	4008321620774	QTP - Optimal 1x18 - 40	4008321873743		
PURITEC HNS 16W 4P SE	4052899437586	QTP - Optimal 1x18 - 40	4008321873743		
PURITEC HNS 20W 4P SE	4052899437562	under investigation			
PURITEC HNS 36W 4P SE	4052899437630	under investigation			
PURITEC HNS 15W G13	4008321398826	QT-ECO 1x 18-24/220-240 S QT-ECO 1x 18-24/220-240 L	4050300638560	QTP-DL 2x 18-24/220-240 S QTP-DL 2x 18-24/220-240 L	4008321117885
PURITEC HNS 25W G13	4052899083851	QTP 5 1x80	4008321329059		
PURITEC HNS 30W G13	4008321398888	QTP-OPTIMAL 1x18-40	4008321873743		
PURITEC HNS 36W G13	4052899084018	QTP-OPTIMAL 1x18-40	4008321873743		
PURITEC HNS 55W G13	4052899083936	QTP-OPTIMAL 1x54-58 QTP5 1x80	4008321873729 4008321873729	QTP-OPTIMAL 2x54-58	4008321880253
PURITEC HNS S 5W G23	4008321229946	Starter included; only for CCG			
PURITEC HNS S 7W G23	4050300941202	Starter included; only for CCG			
PURITEC HNS S 9W G23	4050300941226	Starter included; only for CCG			
PURITEC HNS S 11W G23	4050300941240	Starter included; only for CCG			
PURITEC HNS S 13W GX23	4008321620774	Starter included; only for CCG			
PURITEC HNS S/E 7W 2G7	4008321383891	QT-ECO 1x4-16/220-240 S	4050300638584	QT-ECO 2x5-11/220-240 S	4050300821504
PURITEC HNS S/E 9W 2G7	4008321384911	QT-ECO 1x4-16/220-240 S	4050300638584	QT-ECO 2x5-11/220-240 S	4050300821504
PURITEC HNS S/E 11W 2G7	4008321384935	QT-ECO 1x4-16/220-240 S	4050300638584	QT-ECO 2x5-11/220-240 S	4050300821504
PURITEC HNS L 18W 2G11	4008321220431	QT-ECO 1x 18-24/220-240 S QT-ECO 1x 18-24/220-240 L QTP-DL 1x18-40	4050300638560 4008321873743	QTP-DL 2x18-24/220-240	4008321117885
PURITEC HNS L 24W 2G11	4008321220561	QT-ECO 1x 18-24/220-240 S QT-ECO 1x 18-24/220-240 L QTP-DL 1x18-40	4050300638560 4008321873743	QTP-DL 2x18-24/220-240	4008321117885
PURITEC HNS L 36W 2G11	4008321220684	QTP-DL 1x36-40/220-240	4008321117908	QTP-DL 2x36-40/220-240	4008321117922
PURITEC HNS L 55W 2G11	4052899012394	QTP-DL 1x55 GII	4008321390158	QTP-DL 2x55 GII	4008321390172
PURITEC HNS L 60W 2G11	4052899012462	QTP 5 1x80	4008321329059		
PURITEC HNS L 95W 2G11	4052899012509	QTP 5 1x80	4008321329059		

07/18 OSRAM does not accept liability for errors, changes and omissions.



Electrical equipment installed in the UV-C sterilizer:

- OSRAM UV-C 9w lamp article puritec HNS S 9 W G23
- Multifunction relay type GCRM-91H, art. 4025063 with 12 volt power supply with one NO contact and one NC contact
- Button on front panel to start sterilization, art. PAS7B2M1CES3
- Red indicator lamp, article SX41211F2G00000
- Micro limit switch with NC / NO contacts, art. D3V-162-1C5
- Bipolar switch with red panel indicator light, 16 A, 250volt, art. KCD4
- 3x1mm flame retardant butyl cable, complete with connector and plug, art. A12-0136-AC2
- Driver 220v / 12v from panel, art. AD30w / 12v
- Electrical ballast for pls lamps, art. AC1 08/23-SP

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