



## Special lamps.

OSRAM lamp technology in the service of industry. Light is now used in a very wide range of industries as a technically, economically and ecologically superior alternative to conventional processes. It is used, for example for:

- curing
- drying
- thermo-forming
- artificial material aging
- sterilizing

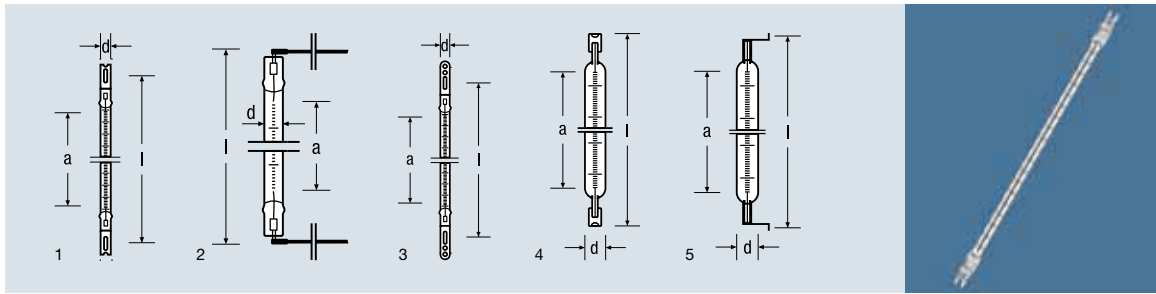
There are also a number of classic industrial applications for light which would be impossible without these special lamps. These include:










- exposure of printing plates
- exposure of photo-resist material in the manufacturing process of printed circuit boards
- fluorescence excitation for material analysis

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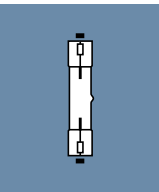
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Product reference	Product number	A	W	V	K	t [h] <sup>1)</sup>		 <sup>2)</sup>
<b>HALOTHERM® infrared halogen lamp</b>								
<b>Quartz clear</b>								
ITT 700/235-0170	4008321 <b>203533</b>	3,0	700	235	2350	5000	p15	R7s
Product reference								
ITT 700/235-0170	6,3f	10	251	170	12	4		
Fuse protection with the indicated values is recommended on the device side (as per IEC 60357)								

NEW

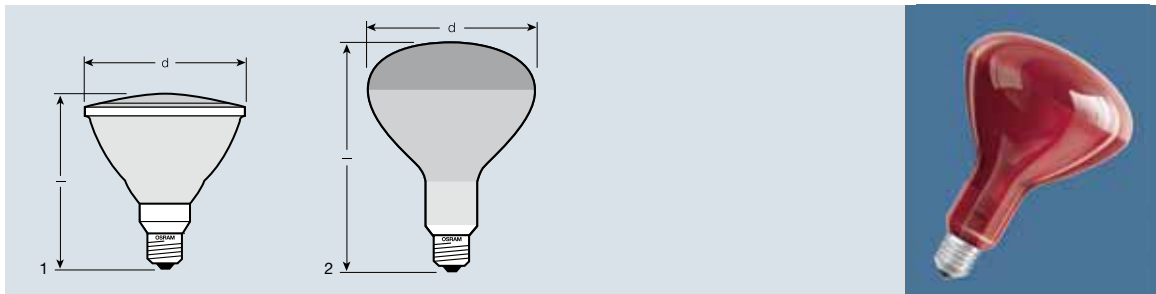


## HALOTHERM®

HALOTHERM® lamps are infrared halogen lamp developed specially for technical applications. Halogen additives prevent bulb blackening and ensure long life. Maximum radiation is in the short-wave infrared range (IR-A) at around 1100 nm. By using quartz that is highly transparent for infrared radiation the thermal output is emitted in the short-wave infrared range with minimal losses. The main benefits of the HALOTHERM® lamps compared with other methods such as hot air or black-tube radiant heaters are their short response time, precise controllability and high efficiency. Lamps with integrated aluminum oxide reflectors considerably increase the radiated power on the surfaces to be heated, particularly over short distances.

HALOTHERM® lamps are used in various processes in the plastics, paper and printing industries, for drying paint, for keeping food warm in restaurants and in modern heat lamps.

# SICCATHERM® infrared heat lamps



Product reference	Product number	W	V		t [h]		
<b>SICCATHERM® infrared heat lamps</b>							
SICCA R125 FR 250W	4050300014029 <sup>2)</sup>	250	230	Frosted	5000	s180	30
SICCA R125 CL 375W	4050300206912	375	230	Clear	5000	s180	30
SICCA PAR38 Red 175W	4050300010991	175	230	Red filter	5000	h90	30
SICCA PAR38 Red 250W	4050300206998	250	240	Red filter	5000	S180	30
SICCA PAR38 CL 250W	4008321178084	250	240	Clear	5000	S180	30

Product reference	<sup>1)3)</sup>	 d [mm]	 l max. [mm]		 No.
SICCA R125 FR 250W	E27	127	185	12	2
SICCA R125 CL 375W	E27	127	185	12	2
SICCA PAR38 Red 175W	E27	122	136	12	1
SICCA PAR38 250W	E27	127	185	12	1
SICCA PAR38 CL 250W	E27	127	185	12	1

Please note:  
 Considerable heat is produced. Operate the lamps only in suitable fixtures.  
 All the lamps labeled <sup>2)</sup> are splash-proof.

SICCATHERM® infrared lamps are used not only for drying paints and varnishes, for various burn-in processes and for keeping food warm in restaurants, they are also used in industry for pasteurizing, polymerizing, vulcanizing and distilling. In agriculture, SICCATHERM® infrared lamps are used for raising young animals and the intensive drying of agricultural products.

### How the lamps work in raising animals:

Animals typically grow faster owing to their greater appetite and improved extraction of nutrients in their fodder. They develop increased resistance to disease and no longer crowd together for warmth. Breeding losses are therefore reduced. Hay remains dry and stalls

stay clean and hygienic for longer. This increases the efficiency of the entire livestock operation. These infrared lamps are also used for varnish and paint curing, burn-in processes and distillation.

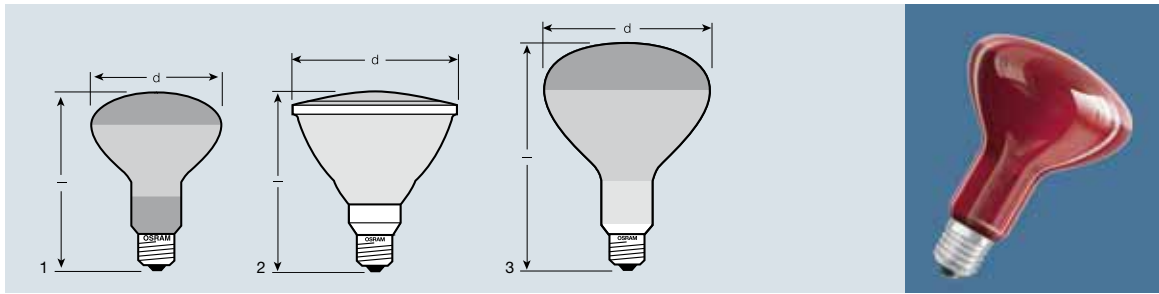
### How the lamps work in drying:









The infrared radiation penetrates the material to be dried and is absorbed by it. There is virtually no heat dissipated to the surrounding air. The advantage is that the entire material is heated, not just the surface. The drying process is so efficient that it is equivalent to enlarging the evaporation area several times over.

SICCATHERM® lamps are also used in food processing for pasteurizing and drying, and for keeping food warm.

1) Max. base temperature 250 °C to EN 60240-1  
 2) Protect the lamp against moisture and splashes  
 3) E27 base to IEC 60061-1

# THERATHERM® infrared heat lamps

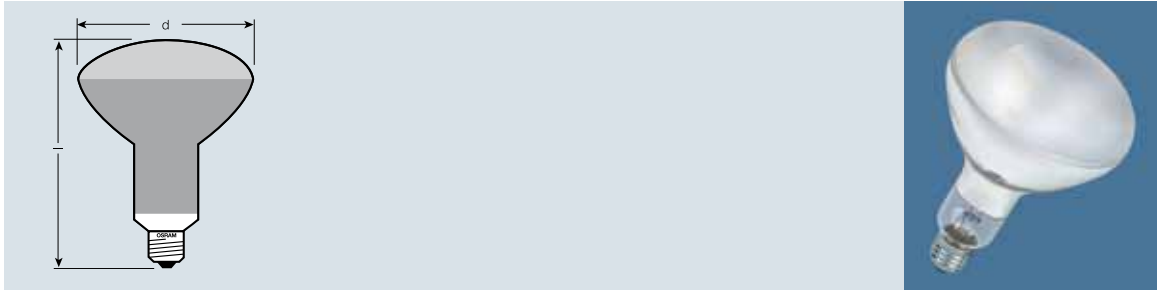


Product reference	Product number	W	V		t [h]		
<b>THERATHERM® infrared heat lamps</b>							
THERA PAR38 Red 150W	4050300003122	150	230	Red filter	5000	s180	30
Product reference		 <sup>1)3)</sup>	 d [mm]	 I max. [mm]		 No.	
THERA PAR38 Red 150W		E27	122	136	12	2	
Please note: Considerable heat is produced. Operate the lamps only in suitable fixtures.							

## THERATHERM®

THERATHERM® infrared heat lamps emit short-wave radiation in the infrared range. A specially pigmented red filter gives the lamp a pleasant and even glow. The parabolic internal reflector focuses the radiated energy into a high-intensity beam. The lamps emit their full thermal output as soon as they are switched on and have a very high life expectancy.

THERATHERM® lamps are used with great success for cosmetic beauty treatment and also as heat sources over relaxation areas in swimming pools and saunas.



Product reference	Product number	W	V	t [h] <sup>2)</sup>		
<b>ULTRA-VITALUX®</b>						
ULTRA VITALUX	40503000 <b>03313</b>	300	230	1000	universal	E27
Product reference						
ULTRA VITALUX		13,6 <sup>1)</sup>	3,0 <sup>1)</sup>	127	185	6

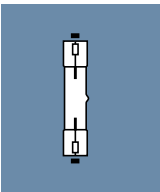
**Please note:**

Because of the intense heat produced the lamps should be operated only in suitable fixtures. Protect the lamps against moisture and splashes. If used incorrectly, UV radiation may lead to sunburn and conjunctivitis. This unit is not a medical product. You should consult your doctor if you have any medical problems. Only your doctor will be able to suggest suitable treatment for your symptoms.

## ULTRA-VITALUX®

The ULTRA-VITALUX® lamp produces a mix of radiation very similar to that of natural sunlight and can have the same positive effects on the body as the sun. This blend of radiation is generated by a quartz discharge tube and a tungsten filament. The bulb is made of special glass which allows only that part of the output that is contained in natural sunlight to pass through.


ULTRA-VITALUX® lamps are suitable for technical applications such as curing special adhesives and plastic and sunlight simulation in industrial material testing. ULTRA-VITALUX® lamps can also be used for the exposure of UV-sensitive photoresist coatings. Other areas of application include wellness, terrariums and equine solaria.



1) After one hour  
2) Economical life

# EVERSUN® UVA fluorescent lamps for solariums and sun beds



Product reference	Product number	W	t [h] <sup>3)</sup>	UVA/W <sup>1)</sup>	UVB/W <sup>1)</sup>	d [mm]	I max. [mm]	
<b>EVERSUN® UVA fluorescent lamps for solariums and sun beds</b>								
L 40/79 K <sup>2)</sup>	40503000 <b>15873</b>	40	500	8,1	0,06	38	590	25
L 100/79	40503000 <b>16955</b>	100	500	31,0	0,25	38	1760	25
L 100/79 SUPER	40503000 <b>19185</b>	100	800	27,0	0,38	38	1760	25

Please note:

Correct operation is only guaranteed if the lamps are used in equipment specially designed for them.

They should therefore be installed only by the manufacturers of such equipment.

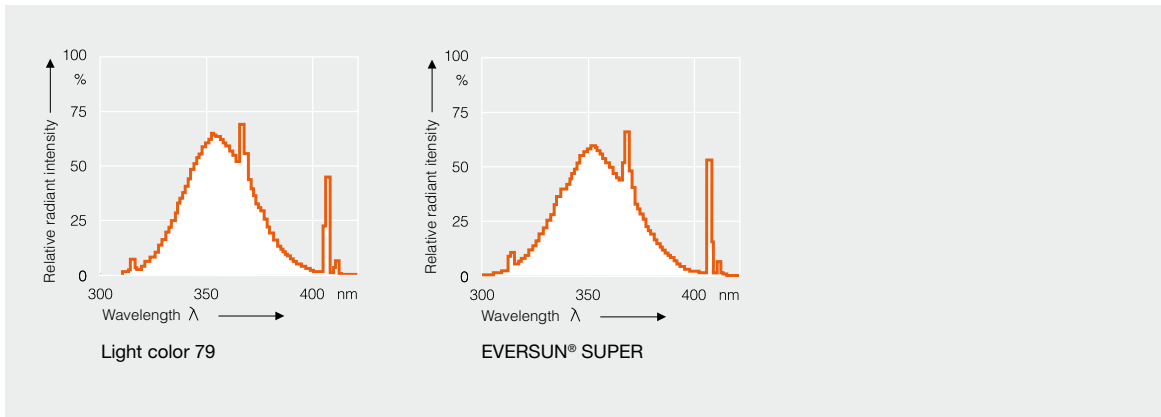
EVERSUN® lamps emit high-intensity UV radiation that can cause sunburn and conjunctivitis.

Ballasts are available from leading manufacturers.

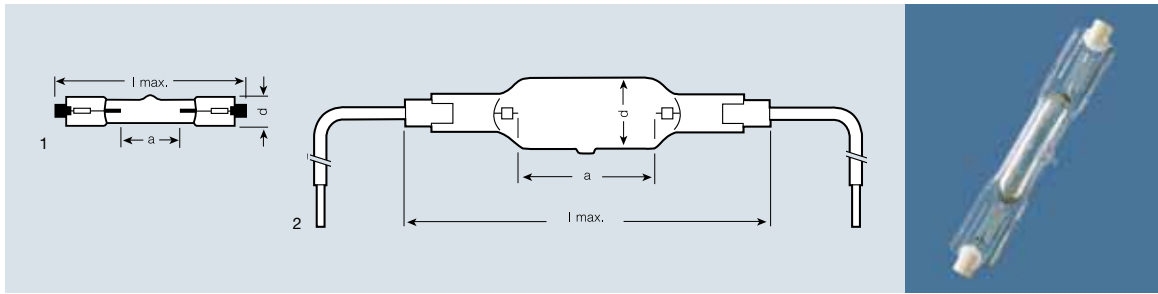
EVERSUN® lamps were developed especially for use in solariums and sun beds. They are available in three versions depending on the desired effect:

- EVERSUN® 79 and 79 R with high UVA emittance for direct pigmentation and a low UVB component for creating new pigment. This UVB component is very low, however, so the danger of sunburn is very low.

- EVERSUN® SUPER with a sun-like effect thanks to the high UVA component and balanced proportion of UVB radiation. Strict adherence to a tanning schedule will result in durable pigmentation, a fresh and long-lasting holiday tan and a high safety factor for the skin.



# ULTRAMED® UV metal halide lamps



Product reference	Product number	W	V		UVA/W	UVB/W	d [mm]	I max. [mm]	a [mm]		No.
ULTRAMED 400	4050300224114	400	230	R7s	88	8	14	104 <sup>1)</sup>	33	25	1

**Please note:**

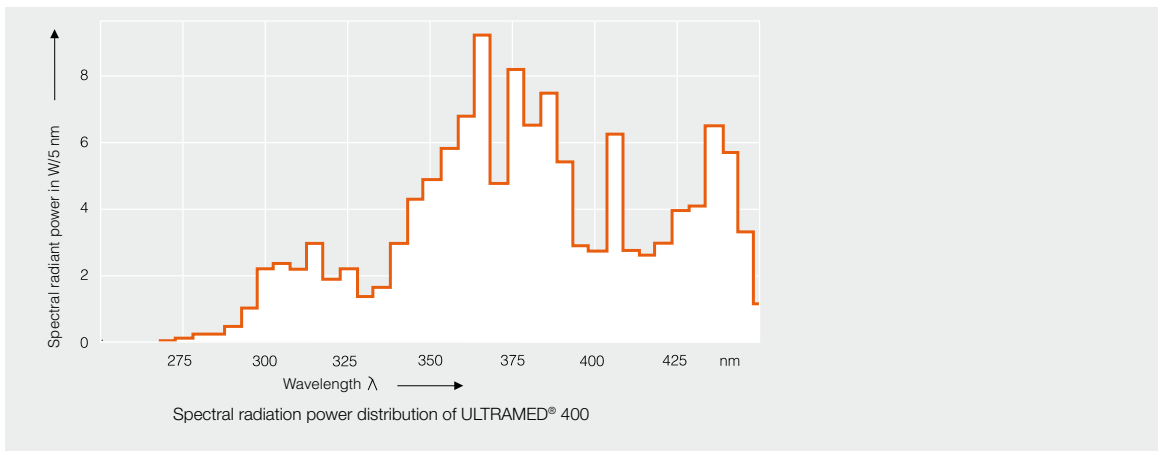
Correct operation is only guaranteed if the lamps are used in equipment specially designed for them. They should therefore be installed only by the manufacturers of such equipment. ULTRAMED® lamps emit high-intensity UV radiation that can cause sunburn and conjunctivitis. The skin and eyes must therefore not be exposed to direct or reflected unfiltered radiation.

Owing to the high radiation intensity in the ultra-violet range from 280 to 400 nm range achieved by the use of special filler substances, these high-quality high-intensity UV lamps can be used with various filters and reflectors. The efficiency of such systems is then very high.

Suitable filters must be used for the cosmetic applications mentioned above. The entire ULTRAMED® range has been granted FDA approval.

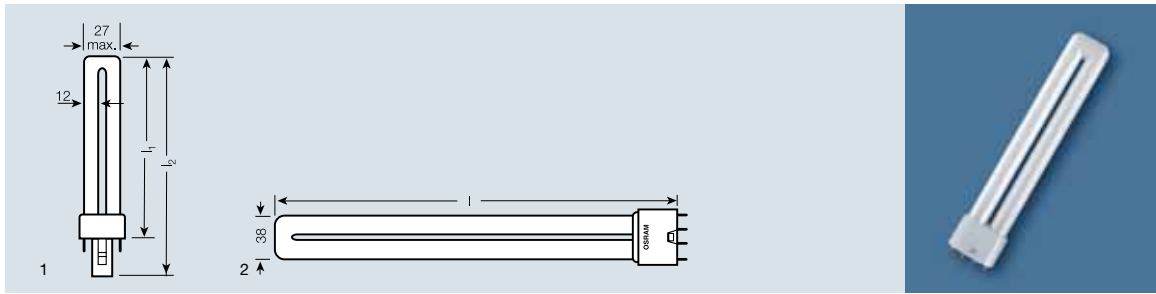
**Applications:**

- The high radiation intensity in the UVA range encourages tanning through direct pigmentation.
- A balanced proportion of UVB radiation helps form new pigmentation to achieve a lasting tan, depending on skin type.



1) Distance between contacts

# OSRAM DULUX® BLUE & BLUE UVA PURITEC® HNS® germicidal lamps producing no ozone



Product reference	Product number	W		UVA/W	l max. [mm]	h [mm]		No.
<b>OSRAM DULUX® BLUE</b>								
DULUX S BLUE 9W/71 <sup>1)</sup>	4008321198860	9	G23	–	167	144	50	1
DULUX L BLUE 18W/71 <sup>2)</sup>	4008321198884	18	2G11	–	217	–	10	2
<b>OSRAM DULUX® BLUE UVA</b>								
DULUX S BLUE UVA 7W/78	4008321198907	7	G23	1,2	137	114	50	1
DULUX S BLUE UVA 9W/78	4008321198938	9	G23	1,5	167	144	50	1
DULUX S BLUE UVA 11W/78	4008321198969	11	G23	1,8	237	214	50	1
DULUX L BLUE UVA 18W/78	4008321198990	18	2G11	3,0	217	–	10	2

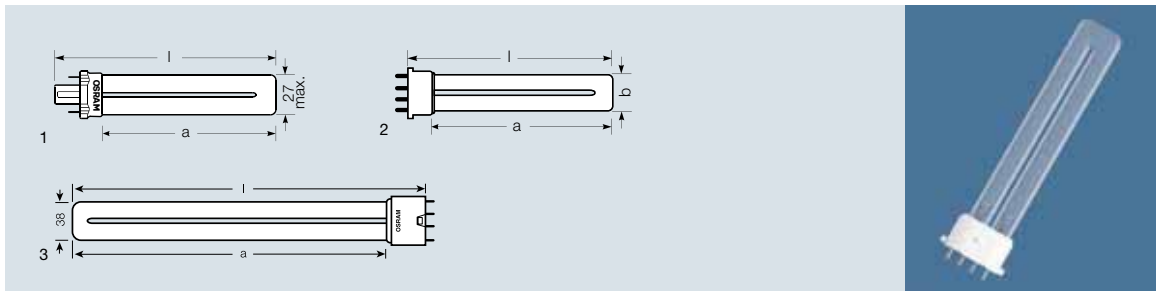
## OSRAM DULUX® BLUE

OSRAM DULUX® BLUE compact fluorescent lamps are approved for use in medical applications. They are also used for polymerization of blue-sensitive plastics, adhesives, paints and dyes.

## OSRAM DULUX® BLUE UVA

OSRAM DULUX® BLUE UVA compact fluorescent

lamps are used for curing plastics, sealing surfaces in dentistry, insect traps, as a UV light source for circuit board manufacture, in terrariums and as a fluorescence exciter for scientific investigations. Using a black glass filter to improve contrast, these lamps can also be used for real-time verification of banknotes and credit cards.



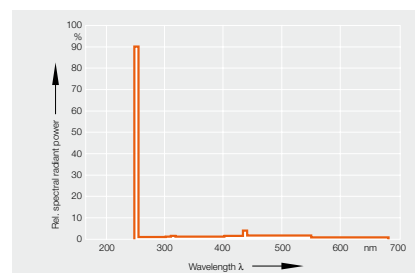
Product reference	Product number	A	W	UVC/W		d [mm]	l max. [mm]	a [mm]		No.
<b>PURITEC® HNS® germicidal lamps producing no ozone</b>										
<b>G23 base</b>										
HNS S 9W G23	4050300941226	0,17	9	2,5	G23	27	165	123	50	1

Please note:

PURITEC® HNS® 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.

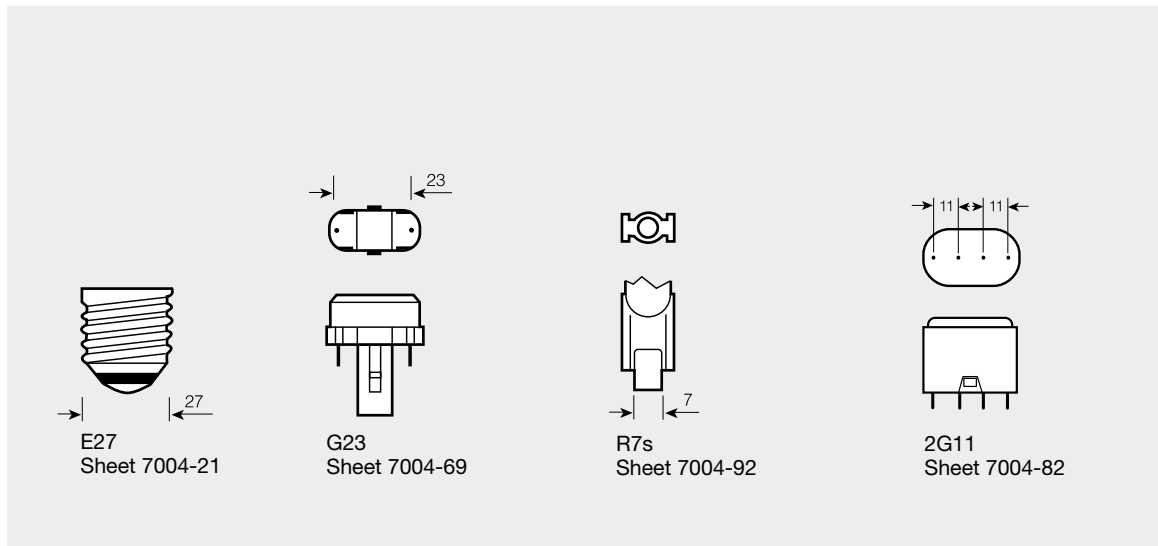
## PURITEC® HNS® compact lamps

PURITEC® HNS® compact lamps are suitable for disinfecting water eg. ponds and aquariums. They also provide a reliable service for pure water systems and water dispensers. Air purification applications include air-conditioning systems and refrigerators. They are also used for disinfecting surgical instruments.



# Bases

## IEC/EN 60061-1



## Burning position

### Schematic diagram

s 180

p 15

p 30

h 90

□ Permitted  
■ Not permitted

The lamps must be installed only in the burning positions specified.  
Any other burning positions may lead to premature failure of the lamps.  
Where:  
s = standing (base down)  
h = hanging (base up)  
p = horizontal (base at the side)  
Permitted angle: The number after the letter for the main burning position indicates the permitted angle of deviation from the main burning position in degrees.

