

Philips lamps for Phototherapy treatment

PHILIPS

sense and simplicity

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Proven technology for Phototherapy

Clinical studies around the world indicate that Philips UV lamps are the most effective lamps currently available for the treatment of Psoriasis and Vitiligo, as well as other less common skin diseases. As the world's largest manufacturer of lighting products, Philips has applied its knowledge and experience to design a comprehensive range of highly effective Phototherapy lamps. These have been developed, tested and proven in close cooperation with universities and clinics around the world.



CERTIFIED
the most
effective on skin

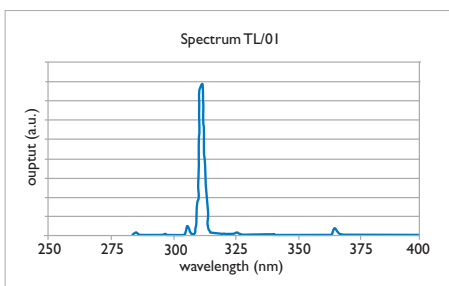
Philips UVB Narrowband (/01) – the most effective choice for phototherapy

More than 400 independent clinical studies worldwide indicate that the Philips UVB Narrowband lamps are safer and more effective than any other lamps in their class. Our lamps emit only a very narrow wavelength band which peaks at 311 nm: the most effective waveband for the treatment of psoriasis. This results in much shorter exposure times and less potential side effects as itching and reddening of the skin. All of this makes them ideal for phototherapy treatment of diseases such as psoriasis, parapsoriasis, vitiligo, atopic dermatitis, and mycosis fungoides.

In addition the lamps are also suitable for home therapy, because the overall dosage of this narrowband radiation can be closely controlled.

Applications

- Psoriasis
- Parapsoriasis
- Vitiligo
- Atopic Dermatitis
- Mycosis fungoides
- Other skin diseases



Philips TL with RDC cap
(R17d)



Philips TL with bi-pin cap
(G13)



Philips PL-S 9W
(G23)



Philips PL-L 36W
(2G11)

Features	Benefits
Emission peak at 311 nm	Minimum potential side effects like redness, itching and burns
Narrowband	Shorter period of exposure and less erythema radiation than conventional UVB lamps
Special developed phosphor and glass	Optimal therapeutic effect with minimum potential side effects
World wide tested in more than 400 clinical tests	Proven to be most effective on the skin

Philips UVB Narrowband (/01) Phototherapy lamps

Lamp type	Output UVB (W)	Lamp Voltage (V)	Lamp Current (A)	Cap/ base	Packaging Configuration MOQ	Product code	European order code 8711500...
Philips UVB Narrowband PL-S 9W/01	0.95	60	0.17	G23	6x10 Box	9279 017 001 21	86891680
Philips UVB Narrowband PL-L 36W/01	4.8	106	0.435	2G11	25	9279 034 001 21	86889340
Philips UVB Narrowband TL 20W/01	3.0	59	0.37	G13	25	9280 100 001 01	63974540
Philips UVB Narrowband TL 40W/01	7.7	104	0.43	G13	25	9280 113 001 01	26474940
Philips UVB Narrowband TL 100W/01	18.4	126	0.97	RDC (R17d)	10	9280 349 001 29	61425425
Philips UVB Narrowband TL F72 100W/01	18.4	126	0.97	RDC (R17d)	25	9279 785 001 29	26327840
Philips UVB Narrowband TL 120W/01	20.0	132	1.11	G13	25	9280 352 001 01	26483140

Philips UVB Broadband – the traditional choice for UVB phototherapy

The UVB Broadband lamps emit radiation in the full 'B' bandwidth of the UV spectrum (280-320 nm) and are therefore suitable for phototherapy systems designed to treat skin diseases such as psoriasis.

Applications

- Psoriasis
- Parapsoriasis
- Vitiligo
- Atopic Dermatitis
- Mycosis fungoides
- Other skin diseases



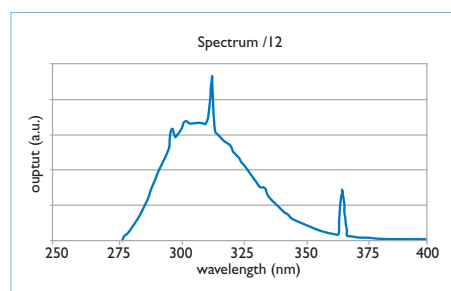
Philips TL with RDC cap
(R17d)



Philips TL with bi-pin cap
(G13)



Philips PL-S 9W
(G23)



Features	Benefits
Emission range from 280-350 nm	Can be administered with or without photosensitizing agent

Philips UVB Broadband (/12) Phototherapy lamps

Lamp type	Output UVB (W)	Lamp Voltage (V)	Lamp Current (A)	Cap/ base	Packaging Configuration MOQ	Product code	European order code 8711500...
Philips UVB Broadband PL-S 9W/12	0.8	60	0.17	G23	6 x 10 Box	9279 017 012 07	62625780
Philips UVB Broadband TL 20W/12	2.4	59	0.37	G13	25	9280 100 012 01	62883140
Philips UVB Broadband TL 40W/12	6.3	104	0.43	G13	25	9280 113 012 01	62886240
Philips UVB Broadband TL 100W/12	14.3	126	0.97	RDC (R17d)	25	9280 349 012 29	61428525

Philips UVA (PUVA) – the alternative for when UVB is unsuitable

Currently UVB Narrowband is the preferred phototherapy treatment for skin diseases like psoriasis. However, some patients do not respond well to either UVB Narrowband or UVB Broadband radiation. Hence, a UV lamp with an 'A' bandwidth of the UV spectrum is used. For these applications Philips offers TL, PLS and PLL lamps. These (PUVA) lamps have a wavelength of between 315 to 380 nm and are not only used for the treatment of psoriasis, but are also commonly used for more than 20 other diseases.

Applications

- Psoriasis
- Parapsoriasis
- Vitiligo
- Atopic Dermatitis
- Mycosis fungoides



Philips TL with bi-pin cap (G13)

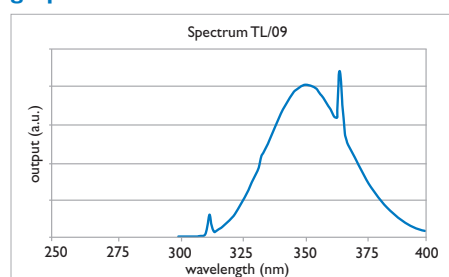


Philips PL-L 36W (2G11)

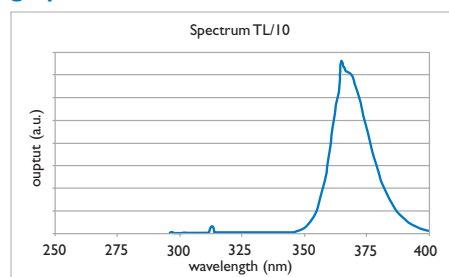


Philips PL-S 9W (G23)

graph 1



graph 2



Features	Benefits
Emission peak at 350 nm	Optimal spectrum for PUVA therapy

Philips UVA (/09) Phototherapy lamps (graph 1)

Lamp type	Output UVA (W)	Lamp Voltage (V)	Lamp Current (A)	Cap/ base	Packaging Configuration MOQ	Product code	European order code 8711500...
Philips PL-L UVA 36W	8.0	106	0.435	2G11	25	9279 034 009 07	61410040
Philips TL-K UVA 40W	7.8	50	0.86	G13	25	9280 031 209 12	62830540
Philips TL UVA 100W	28.5	125	0.94	G13	25	9280 043 209 07	26877840
Philips TL UVA 100W-R	27.5	125	0.94	G13	25	9280 057 209 12	62838140

Philips UVA-I (/10) Phototherapy lamps (graph 2)

Lamp type	Output UVA (W)	Lamp Voltage (V)	Lamp Current (A)	Cap/ base	Packaging Configuration MOQ	Product code	European order code 8711500...
Philips TL-K UVA-I 40W-R	8.0	50	0.86	G13	25	9280 041 010 12	61223640
Philips TL UVA-I 100W-R	28.0	126	0.94	G13	25	9280 069 010 12	61281640
Philips PL-S 9W UVA-I	1.95	60	0.17	G23	6x10 box	9280 017 210 14	92988100
Philips PL-L 36W UVA-I	8.5	106	0.435	2G11	25	9279 034 210 14	84160200

Philips Jaundice (/52) lamps – eliminating the need for blood transfusions



By emitting light almost entirely within the 400 to 500 nm bandwidth these Medical Therapy Jaundice /52 lamps have no radiation in the UV range. They are therefore ideal for treating new born babies suffering from hyperbilirubinemia (neonatal jaundice) and Crigler-Najjar Syndrome (CNS). Moreover, the bandwidth of these lamps peak at the most effective treatment wavelength of 450 nm. This highly efficacious phototherapy treatment has eliminated the need for blood transfusions in almost all

jaundiced infants. In addition, with the compact format of the PL-S/PL-L lamps equipment manufacturers have more design freedom in developing their solutions.

Applications

- Medical treatment of jaundice in new-born babies (hyperbilirubinemia)
- Crigler - Najjar (CN) syndrome



Philips TL with bi-pin cap (G13)



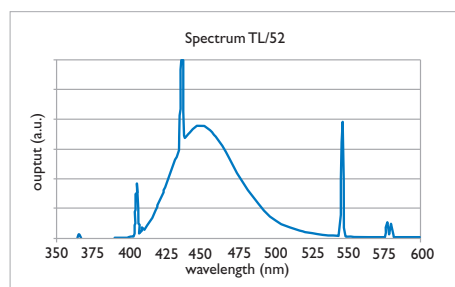
Philips PL-L 18W/52/4P (2G11)



Philips PL-S 9W (G23)



Philips TL-D (G13)



Features	Benefits
Emission peak at 450 nm	Optimal spectrum for photo-oxidative process to convert unconjugated bilirubin into a water-soluble form

Philips Jaundice (/52) Phototherapy lamps

Lamp type	In Flux Output (LM)	Lamp Voltage (V)	Lamp Current (A)	Cap/ base	Packaging Configuration MOQ	Product code	European order code 8711500...
Philips PL-L 18W/52	360	57	0.375	2G11	25	9279 041 052 06	80517800
Philips TL 20W/52	340	59	0.37	G13	25	9280 035 052 03	64302540
Philips TL-D 18W/52	395	59	0.36	G13	25	9280 480 052 11	83485700
Philips PL-S 9W/52	130	60	0.17	G23	6x10 box	9279 017 052 03	64471880

Philips Lumino therapy lamps for treating Seasonal Affective Disorder (SAD), also known as “winter blues”

Lamp type	In Flux Output (LM)	Lamp Voltage (V)	Lamp Current (A)	Cap/ base	Packaging Configuration MOQ	Product code	European order code 8711500...
Philips PL-L 36W/953/4p*	2350	106	0.43	2G11	25	9279 034 953 01	64410740

* For treatment of Seasonal Affective Disorder (SAD)



Safety measures

As with natural sunlight, UV-therapy may increase the risk of skin cancer, erythema (sunburn), conjunctivitis (snow blindness) and cataract of the eye.

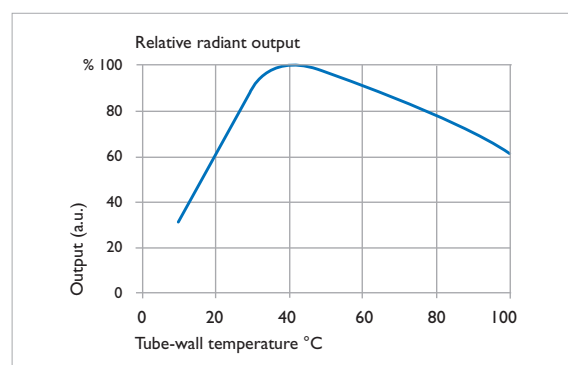
Chronic blue light exposure can damage the retina. Patients should always wear protective eye-wear. Therapy equipment must be screened off to ensure safe operation by service personnel.* Equipment must be provided with a timer in order to control the dose.

Philips UVB therapy lamps (/01 and /12) are only supplied to qualified customers. The lamps should only be used for medical purposes under doctor supervision.

* For safe levels, see standard IEC 62471 Photobiological Safety of Lamps and Lamps Systems

Operating conditions

In order to obtain the best possible output, the equipment should be designed to keep the lamp at the optimal temperature.



Burning-in time

We advise a burning-in time for new UVB Narrowband (/01) lamps of at least one hour to avoid the high initial UV output.

Product dimensions

Dimensions in mm

Type	A max	B min	C max	D' min	D max
Philips UV PL-S 9W	128.8	144.5	167.0	28.0	13.0

Type	A max	B max	C max	D' min	D max
Philips UV PL-L 36W	384.2	410.0	416.6	39.0	18.0

Type	A max	B max	C max	D' min	D max
Philips UV PL-L 18W/52 4P	188.2	214.0	220.6	39.0	18.0

Type	A max	B min	B max	C max	D max
UVB Narrowband (/01) Phototherapy lamps					
Philips TL 20W/01	589.8	594.5	596.9	604	40.5
Philips TL 40W/01	1199.4	1204.1	1206.5	1213.6	40.5
Philips TL 100W/01 RDC	1763.8	1768.5	1770.9	1782.2	40.5
Philips TL 100W/01-F72 RDC	1755.7	1760.4	1762.8	1774.6	40.5
Philips TL 120W/01	2000	2004.7	2007.1	2014.2	40.5

UVB Broadband (/12) Phototherapy lamps					
Philips TL 20W/12	589.8	594.5	596.9	604	40.5
Philips TL 40W/12	1199.4	1204.1	1206.5	1213.6	40.5
Philips TL 100W/12 RDC	1763.8	1768.5	1770.9	1782.2	40.5

Jaundice (/52) Phototherapy lamps					
Philips TL 20W/52	589.8	594.5	596.9	604	40.5
Philips TLD 18W/52	589.8	594.5	596.9	604	28

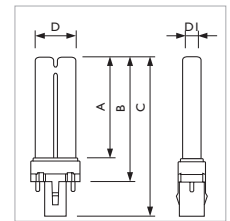
UVA (/09) Phototherapy lamps					
Philips TL-K UVA 40W	589.8	594.5	596.9	604	40.5
Philips TL 100W/09-R	1763.8	1768.5	1770.9	1778	40.5

UVA-I (/10) Phototherapy lamps					
Philips TLK 40W/10 R	589.8	594.5	596.9	604	40.5
Philips TL 100W/10 R	1763.8	1768.5	1770.9	1778	40.5

Note: For (/09) and (/10), Philips also has other lamp wattages commercially available and can be provided on request for manufacturers or for trial purposes.



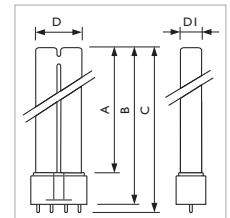
Philips PL-S 9W



Philips PL-S 9W / 12 G23



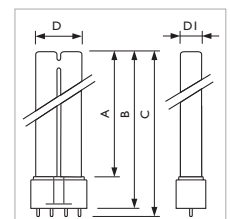
Philips PL-L 36W



Philips PL-L 36W



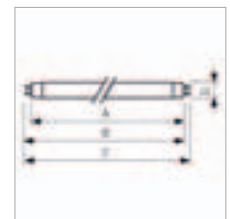
Philips PL-L 18W/52/4P



Philips 18W/52/4P



Philips TL-D (G13)



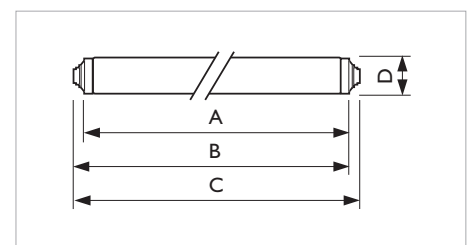
Philips TL-D (G13)



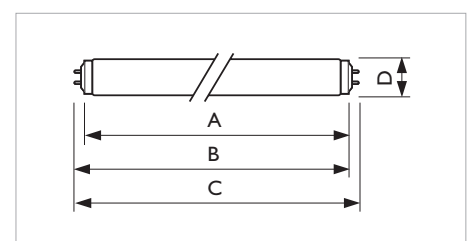
Philips TL with RDC cap (R17d)



Philips TL with bi-pin cap (G13)



RDC cap (R17d)



Bi-pin cap (G13)

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