

SYLVANIA

aquarium & terrarium lighting

The lighting pets prefer



SYLVANIA

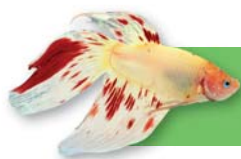


If you need to replace natural light – whether for plants, aquariums or terrariums – Sylvania has an extensive collection of lighting solutions available. For example, Sylvania's GRO-LUX is a world leader in plant illumination. Proper light and UV-radiation is very important for fish and reptiles. Our lighting engineers have developed lamps with specific light spectra for the most diverse uses. Either independently or in combination, Sylvania Aquarium and Terrarium lamps deliver the best results for complex biological requirements. Whether for plants, fish, corals, reptiles, or the entire biotope of aquariums and terrariums - with Sylvania you'll find the appropriate lighting.



AQUARIUM & TERRARIUM

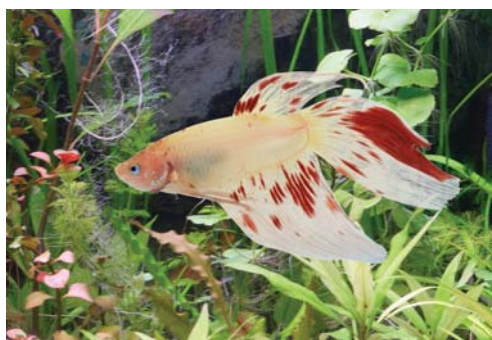
Grolux T5	4
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Grolux T5

FEATURES

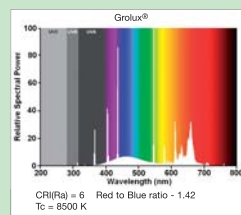
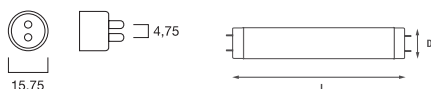
- High level of blue and red radiation helps promote healthy plant growth
- Strengthens the natural colours of aquatic plants and fish in aquariums
- Promotes the process of photo-synthesis in plants
- Oldest, but most optimal light colour for plants and aquaria
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New **T5/8**: 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium.



APPLICATIONS

- For lighting of fresh water aquariums
- Complete or additional artificial lighting of plants
- Recommended for use in greenhouses, indoor gardens, flower shows and conservatories

G5



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Comparable wattage in T8	Dimensions (mm) L	Diameter D	Watt	Colour	Cap	
0000026	-	F8W/GRO	-	288	16	T5	8	GroLux	G5
0002740	-	FHO24W/GRO	-	549	16	T5	24	GroLux	G5
0002743	-	FHO39W/GRO	-	849	16	T5	39	GroLux	G5
0002746	-	FHO54W/GRO	-	1149	16	T5	54	GroLux	G5
0002749	-	FHO80W/GRO	-	1449	16	T5	80	GroLux	G5
-	0002821	F24W T5/8 Gro-Lux 438mm	15	438	16	T5	24	GroLux	G5
-	0002823	F28W T5/8 Gro-Lux 590mm	18	590	16	T5	28	GroLux	G5
-	0002825	F35W T5/8 Gro-Lux 742mm	25	742	16	T5	35	GroLux	G5
-	0002827	F45W T5/8 Gro-Lux 895mm	30	895	16	T5	45	GroLux	G5
-	0002829	F54W T5/8 Gro-Lux 1047mm	38	1047	16	T5	54	GroLux	G5
-	0002831	F54W T5/8 Gro-Lux 1200mm	36	1200	16	T5	54	GroLux	G5

Packaging Note: The sleeve pictured is for retail sales.

Grolux T8/MiniLynx

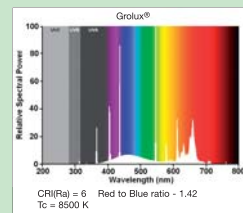
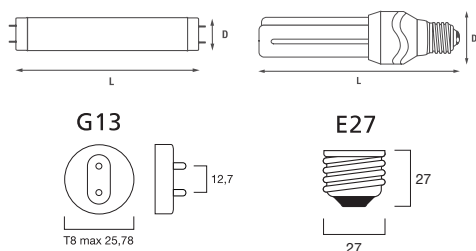


FEATURES

- High level of blue and red radiation helps promote healthy plant growth
- Strengthens the natural colours of aquatic plants and fish in aquariums
- Promotes the process of photo-synthesis in plants
- Oldest, but most optimal light colour for plants and aquaria

APPLICATIONS

- For lighting of fresh water aquariums
- Complete or additional artificial lighting of plants
- Recommended for use in greenhouses, indoor gardens, flower shows and conservatories



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Retail Pack Quantity per 20	Item description	Dimensions (mm) L D		Diameter	Watt	Colour	Cap
0000043	0000707	-	F14W/GRO	361	26	T8	14	Gro-Lux	G13
0000069	0000708	-	F15W/GRO	438	26	T8	15	Gro-Lux	G13
0001523	0000709	-	F18W/GRO	590	26	T8	18	Gro-Lux	G13
0001679	0000710	-	F25W/30"/GRO	742	26	T8	25	Gro-Lux	G13
0000150	0000711	-	F30W/GRO	895	26	T8	30	Gro-Lux	G13
0001524	0000712	-	F36W/GRO	1200	26	T8	36	Gro-Lux	G13
0002213	0000713	-	F38W/GRO	1047	26	T8	38	Gro-Lux	G13
0001525	0000714	-	F58W/GRO	1500	26	T8	58	Gro-Lux	G13
-	-	0026484	Minilyn 18W/GRO	178	38	-	18	Gro-Lux	E27

Packaging Note: The sleeve pictured is for retail sales.



Aquastar T5

FEATURES

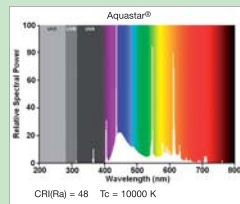
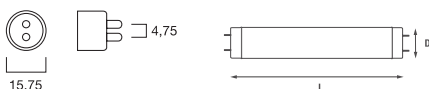
- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New **T5/8** : 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium.

APPLICATIONS

- For all biological organisms in fresh and marine water aquariums
- Excellent results in combination with Daylightstar



G5



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Comparable wattage in T8	Dimensions (mm)		Diameter	Watt	Colour Temp. K	Light Output lm	Cap
				L	D					
0002741	0002752	FHO24W/Aquastar	-	549	16	T5	24	10000	1120	G5
0002744	0002753	FHO39W/Aquastar	-	849	16	T5	39	10000	1960	G5
0002747	0002754	FHO54W/Aquastar	-	1149	16	T5	54	10000	2800	G5
0002750	-	FHO80W/Aquastar	-	1449	16	T5	80	10000	3500	G5
-	0002820	F24W T5/8 Aquastar 438mm	15	438	16	T5	24	10000	900	G5
-	0002822	F28W T5/8 Aquastar 590mm	18	590	16	T5	28	10000	1200	G5
-	0002824	F35W T5/8 Aquastar 742mm	25	742	16	T5	35	10000	1700	G5
-	0002826	F45W T5/8 Aquastar 895mm	30	895	16	T5	45	10000	2100	G5
-	0002828	F54W T5/8 Aquastar 1047mm	38	1047	16	T5	54	10000	2500	G5
-	0002830	F54W T5/8 Aquastar 1200mm	36	1200	16	T5	54	10000	2900	G5

Aquastar T8



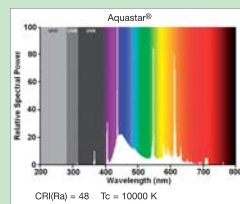
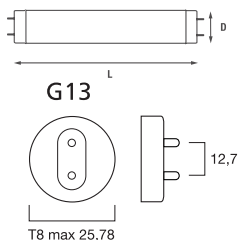
FEATURES

- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance



APPLICATIONS

- For all biological organisms in fresh and marine water aquariums
- Excellent results in combination with Daylightstar



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Dimensions (mm) L	Diameter D	Watt Temp. K	Colour	Light- output lm	Cap
0002212	-	F14W/Aquastar	361	26	T8	14	10000	G13
0002224	0000643	F15W/Aquastar	438	26	T8	15	10000	G13
0002221	0000644	F18W/Aquastar	590	26	T8	18	10000	G13
0002226	0000645	F25W/30"/Aquastar	742	26	T8	25	10000	G13
0002225	0000646	F30W/Aquastar	895	26	T8	30	10000	G13
0002222	0000647	F36W/Aquastar	1200	26	T8	36	10000	G13
0002185	0000648	F38W/Aquastar	1047	26	T8	38	10000	G13
0002223	0000649	F58W/Aquastar	1500	26	T8	58	10000	G13

Packaging Note: The sleeve pictured is for retail sales.



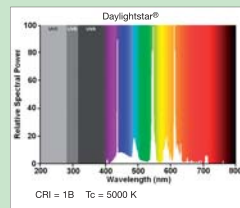
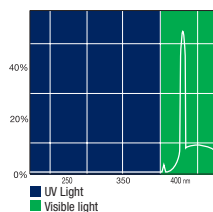
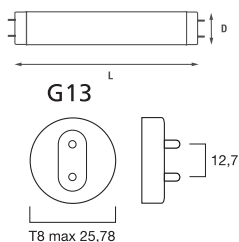
Daylightstar T8

FEATURES

- Reduces algae growth through a special UV-STOP protective sleeve
- Allows fish and plants to be seen in their true colours (high colour rendition)
- 5000K triphosphor lamp with a daylight character
- High colour rendition
- Long life

APPLICATIONS

- For use in fresh water aquariums
- In combination with Gro-Lux® it produces a well balanced and optimal aquarium life



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Dimensions (mm)		Diameter	Watt	Colour	Cap
-	0000715	F15W/Daylightstar	438	26	T8	15	Daylightstar	G13
-	0000716	F18W/Daylightstar	590	26	T8	18	Daylightstar	G13
-	0000717	F30W/Daylightstar	895	26	T8	30	Daylightstar	G13
-	0000718	F36W/Daylightstar	1200	26	T8	36	Daylightstar	G13

Packaging Note: The sleeve pictured is for retail sales.

Coralstar T5



FEATURES

- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See coral in its true colour(s)
- T5 - FHO: high output and lumen per watt in comparison to T8 versions
- New **T5/8** : 50% more light output in comparison to the same length in T8. Ideal for the new generation of aquaria with T5 lamps, but in the length of T8 lamps. The ideal fit of the lamps in the aquarium results in a perfect illumination of the aquarium.

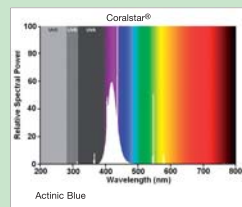
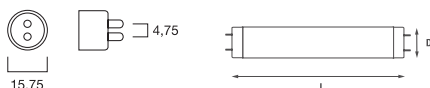


APPLICATIONS

- Lighting to promote growth of coral and invertebrates in marine water aquariums



G5



Industrial Pack Quantity per 25	Retail pack Quantity per 10	Item description	Comparable wattage in T8	Dimensions (mm) L	Diameter D	Watt	Colour	Cap
0002742	-	FHO24W/Coralstar	-	549	16	T5	24	Actinic G5
0002745	0002755	FHO39W/Coralstar	-	849	16	T5	39	Actinic G5
0002748	0002756	FHO54W/Coralstar	-	1149	16	T5	54	Actinic G5
0002751	-	FHO80W/Coralstar	-	1449	16	T5	80	Actinic G5
-	0002757	F24W T5/8 Coralstar 438mm	15	438	16	T5	24	Actinic G5
-	0002758	F45W T5/8 Coralstar 895mm	30	895	16	T5	45	Actinic G5
-	0002759	F54W T5/8 Coralstar 1200mm	36	1200	16	T5	54	Actinic G5



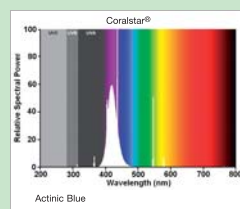
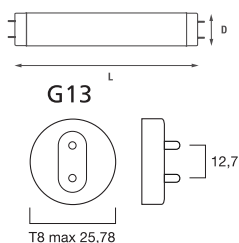
Coralstar T8

FEATURES

- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See coral in its true colour(s)

APPLICATIONS

- Lighting to promote growth of coral and invertebrates in marine water aquariums



Industrial Pack Quantity per 25	Retail Pack Quantity per 10	Item description	Dimensions (mm) L D	Diameter	Watt	Colour	Cap
-	0000719	F18W/Coralstar	590 26	T8	18	Actinic	G13
-	0000725	F30W/Coralstar	895 26	T8	30	Actinic	G13
-	0000726	F36W/Coralstar	1200 26	T8	36	Actinic	G13

Packaging Note: The sleeve pictured is for retail sales.

Reptistar T8



FEATURES

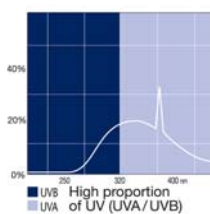
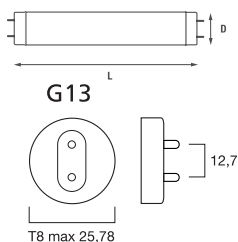
- Promotes vitamin D3 production which aids good health, growth and the general well-being of reptiles in terrariums through a high content of UVB (up to 5%) and UVA (up to 30%)
- This full spectrum (6500 K) lamp improves the natural appearance of reptiles
- Shows reptiles in their true colours

APPLICATIONS

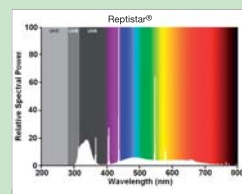
- For the artificial lighting of reptiles in terrariums

DIRECTIONS FOR USE

- This lamp emits UV-radiation. Avoid exposure to skin and eyes.



For reptiles only



Code	Item description	Dimensions (mm)		Diameter	Watt	Colour	Cap	Light output lm	Ordering Quantity
		D	L						
0000731	F15W/Reptistar	438	26	T8	15	Reptistar	G13	300	10
0000732	F18W/Reptistar	590	26	T8	18	Reptistar	G13	450	10
0000733	F30W/Reptistar	895	26	T8	30	Reptistar	G13	700	10
0000734	F36W/Reptistar	1200	26	T8	36	Reptistar	G13	1000	10

Packaging Note: The sleeve pictured is for retail sales.



Reptistar MiniLynx

FEATURES

- High UV-B radiation. UV-B peak intensity @ 100mm: 160 $\mu\text{W}/\text{cm}^2$ for 4% version and 200 $\mu\text{W}/\text{cm}^2$ for the 8% version.
- Works on the mains (220-240V) without any special supplementary ballast.
- Easy handling: E27 cap
- Effective lamp life: 4000 hrs*.

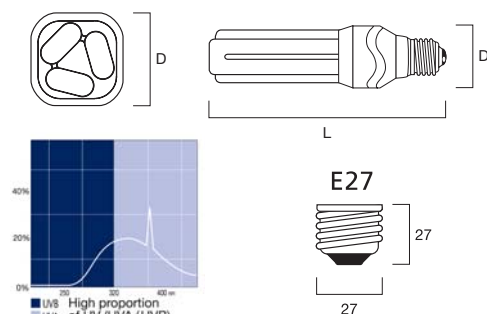
APPLICATIONS

- Provides the necessary UV-B radiation for reptiles in a terrarium in order to keep them healthy.
- Two versions (4% and 8%) in order to adapt to the type of reptile.
- Could also be used in certain industrial applications.

DIRECTIONS FOR USE

- This lamp emits UV-radiation. Avoid exposure to skin and eyes.
- Burning position: unrestricted
- Lamps comply with EN 60968 (Safety Requirement) and EN 60969 (Performance Requirements) and CE regulations

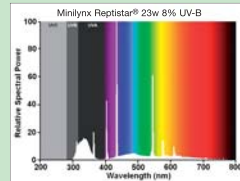
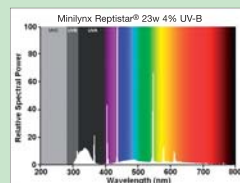
* Effective life: time to 50% of 100 hours UVB output



universal



For reptiles only



Code	Item description	Watt W	Mains Voltage V	Current A	M.O.L mm	D Max mm	Cap	Colour Temp. K	Luminous Flux lm	CRI Class	Spectral Power At 100mm in μW/cm	Spectral UV-A At 100mm in μW/cm	Spectral UV-B At 100mm in μW/cm	Packing Quantity
0027275	MiniLynx 23W Reptistar 4%UV-B	23	220-240	190	166	57	E27	6500	600	1b	610	160	10	
0027276	MiniLynx 23W Reptistar 8%UV-B	23	220-240	190	166	57	E27	6500	540	1b	750	200	10	





AquaArc

FEATURES

- High light output and good efficiency
- High colour rendering
- Very high colour stability over the whole lamp life
- High colour temperature (10000 K)
- Point-source of light creates attractive shadow effect of water ripples on the aquarium bed

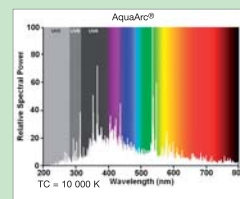
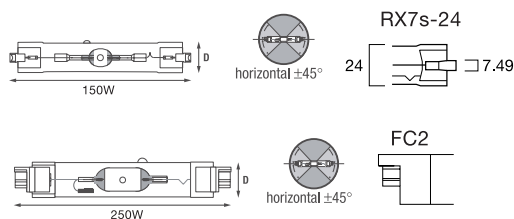


APPLICATIONS

- For use in fresh and sea water aquaria
- Strong directional light which penetrates deep into large tanks
- Lifelike appearance of fish, corals and plants

DIRECTIONS FOR USE

- Burning position: horizontal $\pm 45^\circ$
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off up - see instructions supplied with lamp
- This lamp emits UV-radiation. Avoid exposure to skin and eyes.



Code	Item description	Dimensions (mm)	Watt	Volt	Current	Cap	Bulb finish	Colour temp. K	Chromaticity Coordinate x y	Light output lm	Packing Quantity
0021049	HSI-TD 150W AquaArc	135,4 25	150	100	1.80	RX7s	clear	10000	0.277 0.311	9000	10
0021050	HSI-TD 250W AquaArc	161,6 27,5	250	100	3.00	Fc2	clear	10000	0.275 0.323	14000	10

CoralArc



FEATURES

- Very high colour temperature 20000K (bluish light)
- Very high colour stability over the entire lamp life
- Enhanced colour rendition
- Point-source of light creates attractive shadow effect of water ripples on the aquarium bed

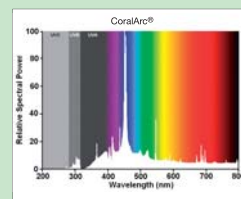
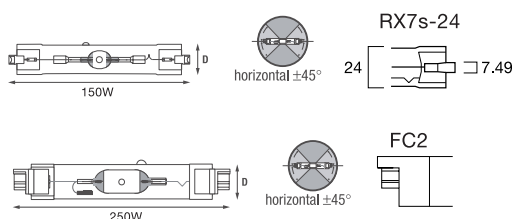


APPLICATIONS

- For use in sea water aquaria
- Provides the specific spectrum (400-480 nm) necessary to achieve the blue chlorophyll absorption for zooxanthellae symbioses to develop

DIRECTIONS FOR USE

- Burning position: horizontal $\pm 45^\circ$
- External ignitor only
- Only use in luminaires fitted with protective cover glass
- Ensure the lamp envelope is cleaned of finger prints before use
- Lamps should be operated with the arc tube tip-off up - see instructions supplied with lamp
- This lamp emits UV-radiation Avoid direct exposure to skin and eyes



Code	Item description	Dimensions (mm)	Watt	Volt	Current	Cap	Bulb finish	Colour temp. K	Chromaticity Coordinate x	Chromaticity Coordinate y	Light output lm	Packing Quantity
0021028	HSI-TD 150W CoralArc	135,4 25	150	100	1.80	RX7s	clear	blue	0.261	0.257	5400	10
0021029	HSI-TD 250W CoralArc	161,6 27,5	250	100	3.00	Fc2	clear	blue	0.257	0.243	8000	10

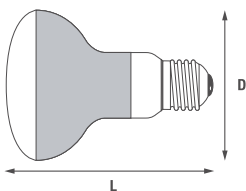
Infrared Reflector

FEATURES

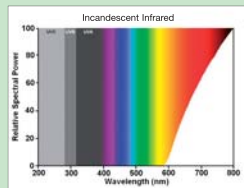
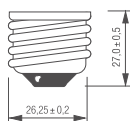
- Converts electric current into infrared radiation

APPLICATIONS

- Provides the necessary infrared radiation for reptiles in terrariums and for other pets like hamsters, mice etc.



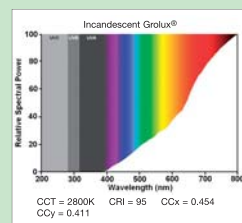
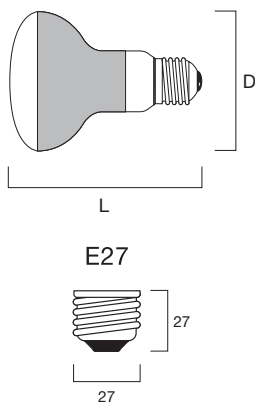
E27



Code	Item description		Dimensions (mm)		Watt	Volt	Cap	Packing Quantity
			L	D				
0033004	Ref. 100W R95	Infrared	130	95	100	230	E27	20
0033002	Ref. 150W R125	Infrared	181	125	150	230	E27	10
0033003	Ref. 250W R125	Infrared	181	125	250	230	E27	10

GroLux Reflector

- Blown glass incandescent reflector lamps
- Special coating to support photosynthesis
- To light plants in case of weak daylight (winter gardens)



Code	Description	Dimensions (mm)		Watt	Volt	Cap	Lamp Finish	Packing Qty
		L	D					
Reflector GroLux R80 80mmØ								
0015633	60W R80 GroLux	110	80	60W	230V	E27	GroLux	25
0015632	75W R80 GroLux	110	80	75W	230V	E27	GroLux	25
Reflector GroLux R95 95mmØ								
0015631	75W R95 GroLux	133	95	75W	230V	E27	GroLux	20

Application Guide

WHICH FLUORESCENT LAMPS TO USE FOR OPTIMAL LIGHTING?

WHICH LAMP COLOUR TO USE?

In order to create a healthy and balanced environment, several criteria should be observed in selecting the ideal Sylvania tube.

When there is only one lamp in the aquarium the choice is simple. However with two or more tubes you have the freedom to combine multiple colours for superior biological as well as visual effects.

ONE LAMP

For tropical / fresh water aquaria, Aquastar is the natural choice. It simulates tropical sunlight and provides a good spectrum for plant care.

GroLux remains the classical favourite which enhances the colours of tropical fish, while also stimulating voracious plant growth.

The colour of Daylightstar is a neutral white and it should be installed if algae growth is a problem, thanks to its unique UV-stop coating.

For marine / salt water aquaria, Aquastar is the only option when there is just a single lamp available.

TWO LAMPS

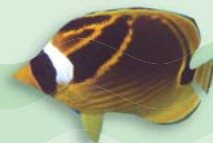
For tropical aquaria a popular combination is Daylightstar plus GroLux. The latter will care for your plants while Daylightstar provides a very high light level with a spectrum that minimises growth of algae.

The combination DaylightStar + Aquastar delivers a natural whiter light with similar results, but less photosynthesis effect.

For marine aquaria the ideal combination is Aquastar + Coralstar. The former is necessary for the principal light generation, while the latter stimulates growth of corals.

In case salt water plants are being grown instead of coral, then the combination Aquastar + GroLux yields especially desirable results.

	Fresh Water	Sea Water
One lamp solutions	GroLux Daylightstar Aquastar	Aquastar
Two lamp solutions	GroLux + Daylightstar Daylightstar + Aquastar	GroLux + Aquastar GroLux + Daylightstar Daylightstar + Aquastar Coralstar + Aquastar

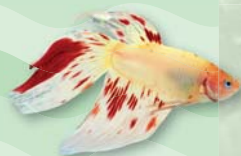


Recommendations

TIPS YOU NEED FOR THE PETS WELL-BEING

- How much light does your aquarium need?
A general rule of thumb is that at least 0.5 watts of lighting per litre of water in the tank (more is better) must be available.
- Never use fluorescent tubes for an aquarium that is deeper than 60cm. AquaArc and CoralArc lamps are required to achieve deeper penetration.
- Avoid positioning your aquarium near to the window. The UVA and UVB in the sunlight will develop algae.
- Use a timer to light your aquarium at a certain hour each day. You should foresee between 10 and 14 hours of lighting per day.
- Change your fluorescent lamps at least once a year. Once 12 months have passed the light output of the lamps will be insufficient due to normal ageing.
- Don't change all the lamps of your aquarium at the same time. Throughout life the efficiency of the lamp gradually decreases. If you change all lamps at once, the increase in light output risks to upset the daily cycle of the fish and plants. Change therefore each of the lamps at intervals of one month.
- Don't forget to change the starter when you re-lamp. It is a requirement for a good lamp operation. Using COP-starters will avoid repetitive starting of the lamp at end of life.

Length of Aquarium	Volume	Length of Lamps	Lamp Power		Lamps
			T8	T5	
40 cm	25 l	30 cm	-	8 W	1
50 cm	45 l	45 cm	15 W	24 W	1
60 cm	55 l	45 cm	15 W	24 W	1
80 cm	128 l	60 cm	18 W	28 W	2
100 cm	250 l	90 cm	30 W	48 W	4
120 cm	300 l	100 cm	38 W	54 W	4
130 cm	325 l	120 cm	36 W	54 W	4
150 cm	375 l	120 cm	36 W	54 W	4
160 cm	400 l	150 cm	58 W	-	4



Item description	Watt	Volt	Lamp type	Circuit	Packing Quantity	Ordering Code
COP starters:						
COP-11	18-58W	220 – 240V	26 mm	Single	1000	0024470
COP-22	14-18W	220– 240W	26 mm	Tandem	1000	0024482

Europe	City	Phone	Fax	E-mail
Austria	Vienna	+43 (0)1617 4507 22	+43 (0)1617 4507 23	info.at@havells-sylvania.com
Belgium	Antwerp	+32 (0)3 610 44 44	+32 (0)3 610 44 57	info.be@havells-sylvania.com
Bulgaria	Sofia	+35 988 59 71 285	+35 92 98 13 492	info.bg@havells-sylvania.com
East Europe	Erlangen	+49 (0)9131 793 499	+49 (0)9131 793 496	info.de@havells-sylvania.com
Finland	Helsinki	+358 (0)9 5421 2100	+358 (0)9 5421 2130	info.fi@havells-sylvania.com
France	Paris	+33 (0)1 55 51 11 00	+33 (0)1 55 51 11 15	info.fr@havells-sylvania.com
Germany	Erlangen	+49 (0)9131 793 500	+49 (0)9131 793 345	info.de@havells-sylvania.com
Greece	Athens	+30 210 996 65 61	+30 210 996 90 29	info.gr@havells-sylvania.com
Italy	Milan	+39 02 24 12 58 11	+39 02 24 12 58 80	info.it@havells-sylvania.com
Netherlands	Breda	+31 (0)76 750 44 44	+31 (0)76 750 44 56	info.nl@havells-sylvania.com
Norway	Oslo	+47 23 067470	+47 23 067471	info.no@havells-sylvania.com
Portugal	Lisbon	+351 21 793 77 36/37	+351 21 793 77 38	info.pt@havells-sylvania.com
Russia	Moscow	+7 495 935 70 48	+7 495 937 70 08	info.ru@havells-sylvania.com
Spain	Madrid	+34 (0)91 669 90 00	+34 (0)91 673 73 64	info.es@havells-sylvania.com
Sweden	Årsta	+46 8 556 322 00	+46 8 556 322 10	info.se@havells-sylvania.com
Switzerland	Zurich	+41 44305 31 80	+41 44305 31 81	info.ch@havells-sylvania.com
Turkey	Istanbul	+90 533 433 86 78	+90 212 343 46 10	info.tr@havells-sylvania.com
UK (Trade)	Shipley	+44 1274 532552	+44 1274 531672	info.uk@havells-sylvania.com
UK (Export)	Shipley	+44 1274 537 810	+44 1274 537 811	info.export@havells-sylvania.com
Middle East				
United Arab Emirates	Dubai	+971 4299 6551	+971 4299 6552	info.ae@havells-sylvania.com
Asia				
China	Guangzhou	+86 20 3765 0278/0207	+86 20 3765 0371	info.cn@havells-sylvania.com
China	Hong Kong	+852 2732 1232	+852 2732 1213	info.hk@havells-sylvania.com
Havell's India	India	+91 120 2477609	+91 9910226688	info.special-products@havells-sylvania.com
Taiwan	Taipei	+886 2 2708 1749	+886 2 2702 8933	info.tw@havells-sylvania.com
Thailand	Bangkok	+66 2656 9039 to 45	+66 2254 3369	info.th@havells-sylvania.com
Vietnam	Hanoi	+844 715 1604	+844 715 1605	info.vn@havells-sylvania.com
Americas				
Argentina	Buenos Aires	+54 11 4515 0215	+54 11 4515 0215	info.ar@havells-sylvania.com
Brazil	Sao Paulo	+55 11 5633 2400	+55 11 5521 3660	info.br@havells-sylvania.com
Colombia	Santafé de Bogotá	+57 1 782 5200	+57 1 782 5362	info.co@havells-sylvania.com
Costa Rica	San José	+506 210 7678	+506 232 8723	info.cr@havells-sylvania.com
Ecuador	Quito	+593 2 328 4407	+593 2 281 0007	info.ec@havells-sylvania.com
El Salvador	San Salvador	+503 2239 2239	+5032 284 9670	info.sv@havells-sylvania.com
Guatemala	Guatemala City	+502 2387 5300	+502 2387 5301	info.gt@havells-sylvania.com
Mexico	Mexico D.F.	+52 555 527 9943	+52 555 527 8919	info.mx@havells-sli.com
Panama	Panama City	+507 236 1000	+507 236 1315	info.pa@havells-sylvania.com
USA	Mullins, SC	+1 843 464 0554	+1843 464 2897	info.us@havells-sli.com
Venezuela	Caracas	+58212 381 0452	+58212 381 0350	info.ve@havells-sylvania.com

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SYLVANIA

www.havells-sylvania.com

Havells Sylvania Belgium B.V.B.A.

Industriepark 13, Soldatenplein Z2
3300 Tienen
Belgium
Phone: (+32) 16 800 366 • Fax: (+32) 16 800 367
www.havells-sylvania.com
info.special-products@havells-sylvania.com