

AQUA**RAY**[®]

Solid State Lighting Systems

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SOLID STATE LIGHTING

DESIGNED BY TMC

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AQUARAY® Solid State Lighting Systems

INSTRUCTIONS FOR INSTALLATION AND USE

Important Safety Information - Please Read Carefully

- AquaRay Solid State Lighting systems comprise an AquaRay lamp unit with a separate mains power supply unit (PSU) which supplies a constant DC (low voltage) power supply to the lamp unit.

Power supply for AquaBeam/GroBeam 500 Single lamp unit:

INPUT-100-240VAC 50-60Hz 0.15A OUTPUT-19.5VDC 0.7A

Power supply for AquaBeam/GroBeam 500 Twin lamp unit:

INPUT-100-240VAC 50-60Hz 0.3A OUTPUT 1-19.5VDC 0.7A

OUTPUT 2-19.5VDC 0.7A

Power supply for AquaBeam/GroBeam 1000 lamp unit:

INPUT-100-240VAC 50-60Hz 0.3A OUTPUT 1-19.5VDC 0.7A

OUTPUT 2-19.5VDC 0.7A

Caution: Do not use any other power supply unit with an AquaRay lamp unit as the lamp unit may not work and this may cause irreparable damage to the lamp unit. If the PSU supplied with the unit needs to be replaced then please obtain an authentic AquaRay PSU supplied by one of Tropical Marine Centre's local stockists.

- Always isolate the PSU from the mains electricity before installing or carrying out any maintenance to the AquaRay lamp unit.

Caution: The power supply unit (PSU) is not waterproof and therefore must not be mounted above the aquarium or in any position where it may accidentally fall into water or be splashed by water.

Caution: Do not position the PSU in an enclosed space. Ventilation must be provided to ensure it does not overheat.

Caution: Do not operate this appliance if any part of it has a damaged cord or plug, is malfunctioning, or has been dropped, immersed in water or damaged in any way.

- This unit is designed to be used indoors and is not suitable for any outdoor applications.

Caution: Ensure the AquaRay lamp unit is securely installed above the tank before operating.

Caution: DO NOT SUBMERGE THE AQUARAY LAMP UNIT. If the unit is submerged the lamp unit guarantee will be invalidated.

Caution: Always leave a drip-loop in the DC supply cable to the AquaRay lamp unit to prevent water running down the cable and reaching the PSU (see picture below).

- When in operation, the grooved aluminium heat sink on the back of the AquaRay lamp unit will get hot ($\pm 60^{\circ}\text{C}$) to the touch. This is normal and is an essential feature of protecting the lamp unit from over-heating.

Caution: Do not cover, or obstruct in any way, the rear aluminium surface of the AquaRay lamp unit which should always have a minimum of 10mm clearance from the nearest surface to allow free circulation of air around it.

Caution: Operation of the AquaRay unit in a confined or unventilated space, or where there is an additional heat source, could cause the ambient operating temperature to rise above 35°C , reducing the useable life of the unit.

- Dispose of this unit responsibly. Check with your local authority for disposal information.

The AquaRay lamp unit is mercury free.

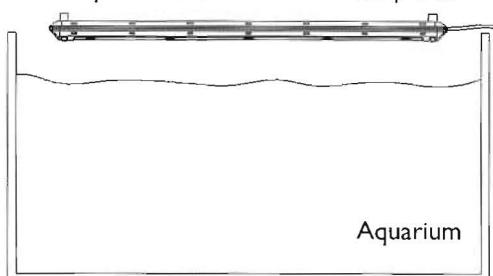


PRODUCT INFORMATION

- This unit is manufactured and conforms to:-
Safety: BS EN 60598-1: 2000, BS EN 60598-2-11: 2005
EMC: BS EN 55015: 2001, BS EN 61000-3-2: 2006.

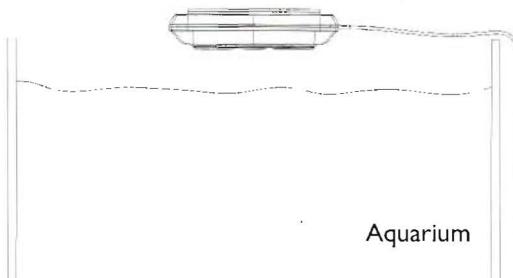
- This unit is CE approved.

AquaBeam/GroBeam 500 lamp unit



Typical Installation

AquaBeam/GroBeam 1000 lamp unit



Typical Installation



Aquarium

Drip-loop

