SAFETY POINTS

After initial installation each new season, switch the power off at the mains and inspect the transformer, the wiring, glands and lamp unit. Take special care in inspecting any parts in contact with the swimming pool water. If any part on inspection has, or

TRANSFORMER

EN60 742 and BS 3535, should always be used with the PU9H underwater floodlight. The index of protection, or IP code, is IP65 as laid down in IEC EN60 529 and BS5490. Input voltage 220 - 240V 50-60Hz.

Salf resetting thermal cut out. If the lamp does not light or goes off curing operation switch off supply, allow transformer to cool down and check the installation and wiring before continuing

Under no circumstances tamper with the light unit whilst the mains power is switched on,

INSTALLATION AND MAINTENANCE CHECK-LIST

Use these points as a regular check-list to help maintain the life of your underwater light.

Always ensure that:

- 1. All glands and screws are fully tightened on underwater light unit for a perfect seal.
- 2. On-load voltage measured at the deck box does not exceed 11.5V AC.
- The 'Micallef' water-tight gland is 3. fully tightened at the deck box.
- The lamp is fully submerged 4. whenever the light is switched on.

When changing lamps, always use Certikin parts and renew the seal with Certikin O-rings.

Under no circumstances should the light be switched on while the lamp is not underwater.

These simple rules will help prevent damage to your light.



THE HALOGEN UNDERWATER FLOODLIGHT FOR SWIMMING POOLS

Installation of all Certikin underwater lighting

Certikin underwater lighting equipment complies with the following index of

PU9 H	Light Unit :	IPX8
PU10N	Deck Box :	IP65
PU11 H	Transformer :	IP65

IMPORTANT

UNDERWATER FLOODLIGHTING

When you use CERTIKIN underwater floodlighting the following points should be borne in mind:

- When planning how many lights to use, the following may be taken as a guide:
 - (a) For indoor pools where the lights will be used in conjunction with overhead or partial overhead lighting: one light per 38m sq. (400 sq.ft.) and one for every 24m sq. (250 sq.ft.) in excess of the basic figure.
 - (b) For indoor pools where the pool lights will be used for effect: one light per 24m sq. (250 sq.ft.) and one for every 24m sq. (250 sq. ft.) in excess of the basic figure.
 - (c) For outdoor pools where pool lights will be used in conjunction with area lighting or general lighting: one light per 30m sq. (320 sq.ft.) and one for every 19m sq. (200 sq.ft.) in excess of the basic figure.
 - (d) For outdoor pools where the pool lights will be used for effect: one light per 24m sq. (250 sq.ft.) and one for every 19m sq. (200 sq.ft.) in excess of the basic figure.
- If coloured lenses are used, these will reduce the actual light output considerably depending upon the intensity of the colour. Therefore, if these lenses are to be used, choose the palest tone in keeping with your requirements
- 3. Keep all the lights, where possible, pointing away from the house to avoid glare.
- Calculate the cable runs careully and select the correct type and size for the length of run.

	SPARE PARTS LIST	
PART No.	DESCRIPTION	No. OF
UNDERWATER	LIGHT - PU9	
SPC 454	Front Plate	1
SPC 471	Front Liner Ring	1
SPC556H	100W 12V Lamp	1
SPC 469N	O-Ring	1
SPC 980S	Gland Nut	1
SPC 979	Rubber Bush	1
SPC 980	Resin Washer	1
SPC 466N	M6 x 20mm Raised Csk Stainless Steel Screw	2
SPC 467N	M4 x 20mm Pan Head Stainless Steel Screw	8
SPC 468	M4 Stainless Steel Shakeproof Washer	8
SPC 438	No. 10 x 11/4" Csk screw for liner light	12
SPC 513	No. 10 x 13/4" Csk screw for liner light	4
SPC 472	Gasket for Front Liner Ring	2
SPC 459	Back Liner Ring	1
SPC 465S	Flexible Conduit (Lamp Housing to Deck Box)	1
DECK BOX - P		
SPC 479	Deck Box Lid	1
SPC 853	Large O Ring (for Main Body)	1
SPC 853N	Small O Ring (for Lid)	1
SPC 516N	Terminal Block	2
SPC 484	No. 6 x 3/4" Csk screw	3
PU9M	Watertight Conduit Gland	1



CERTIKIN PU11 H

TRANSFORMER WIRING AND OUTPUT DETAILS

The transformer is designed to operate only with the PU9 H 100W Halogen Under Water Light. Each PU9 H light must be connected to it's own transformer. The transformer is protected by a T1A (5 x 20mm) fuse and a self resetting thermal cut out. The transformer has a protection rating of IP65 making it suitable for use outside zones 'A' and 'B' as specified in the IEE 16th Edition Wiring Regulations, Section 602 for swimming pools. However, unless all the cables, cable glands and any other conduit comply with this specification, a protection rating of IP65 cannot be claimed for the whole system. The transformer is designed for wall mounting using the central fixing hole shown, with the cable entry glands at the bottom. The output voltage to the lamp is determined by selecting the mains input connections. See section A above.

FOR AN OUTPUT OF: 13.5V 14.5V USE INPUTS: L and N1 L and N2





SKETCH A

150mm -

