

1. DESCRIPTION

1.1 KRIPSOL ultrathin underwater lights are manufactured in white, injection moulded ABS, to give them resistance against physical and chemical agents. The screen is manufactured in transparent polycarbonate.

1.2 TECHNICAL CHARACTERISTICS.

- KRIPSOL ultrathin underwater lights have been designed to use 100 Watt halogen bulbs.
- They should be used submerged in fresh or slightly treated water.
- We do not recommend their use at depths of more than 1,5 m.
- The degree of protection of the underwater light is IP68. The safety voltage is 12V (alternating current).
- The underwater light complies with international safety standards CEI 60558-2-18-1993 (Luminaires for Swimming Pools and Similar Applications)
- This underwater lights is an electrical receptor class III (SRBT.MI BT 031, PTO 1.2).
- The manufacturer is not responsible for assembly, installation, operational start-up, handling or the incorporation of components that have not been made in the manufacturer's facilities.

2. GENERAL POINTS

2.0 INTRODUCTION.

This manual contains the instructions necessary for the installation, use and maintenance of KRIPSOL ultrathin underwater lights in a swimming pool. In order to obtain the performances described in the specifications sheet, all the recommendations given in this manual

must be complied with and followed correctly.

This will make it possible to use the lights in a way that ensures that they are safe and long lasting.

The equipment supplier will provide the user with complementary information if he so requires.

2.1 SAFETY SYMBOLS USED IN THE INSTRUCTION MANUAL.

Instructions which refer to personal safety are marked with the following symbols:



Caution
General Hazard



Caution Risk
of Electric Shock



Standard
DIN 4844-W8

Other instructions relating to operation which must be complied with in order to avoid physical damage to the equipment are marked thus:

CAUTION

2.2 LIABILITY.

Failure to comply with the instructions given by the manufacturer in this manual regarding the selection, handling, installation, operational start-up and maintenance of the lights shall free the manufacturer or distributor from any possible liability for accidents affecting persons or damage to other installations, and shall, moreover, result in the cancellation of the guarantee.

3. GENERAL INSTRUCTIONS REGARDING USER SAFETY

3.1



The safety of the underwater lights supplied shall only be guaranteed if they are used in accordance with the schematics on pages 23-28. The operating conditions and limits stated in this manual must under no circumstances be exceeded (chapter 1.2 Technical Characteristics and 5.4 Warnings). Compliance with legislation on safety standards in the relevant country is obligatory.

3.2



Ensure that the underwater lights have been selected appropriately for the application for which they are to be used, and that their condition, installation, start-up and subsequent use are correct. See chapter 1.2 (Technical Characteristics).

3.3



Installations, repair and maintenance operations must always be carried out with the underwater lights disconnected from the electricity supply.

3.4



The underwater light should not be moved, or its position adjusted, while it is in use, it must always be disconnected from the electricity supply before operations of this kind are carried out.

3.5



The electrical connection/disconnection or safety devices must not be actuated in the presence of moisture. Special care must be taken to avoid damp on the operator's hands, footwear or other contact surfaces.

3.6



The necessary spares must be the manufacturer's original or recommended parts. Use of other parts or originals that have been modified by third parties is not allowed and shall free the manufacturer from all liability.

4. PACKAGING, TRANSPORT AND STORAGE

5.1. SITING.

4.1

CAUTION

The manufacturer supplies the lights protected by appropriate packaging to ensure that during transport or storage they do not suffer damage that would prevent their correct installation and/or operation.

4.2

CAUTION

The user, on receiving the lights, should check the following points:

- Condition of the external packaging. If it shows signs of significant deterioration, the delivery service should be formally notified.
- Also, check the state of the contents. If any damage is apparent that may prevent correct functioning, the supplier should be formally notified within 8 days of reception.

4.3

CAUTION

The storage conditions shall be such as to guarantee the correct state of conservation of the lights.
It is especially important to avoid extremely damp environments or other environments that may cause abrupt changes in temperature (condensation).

KRIPSOL ultrathin underwater lights offer various installation possibilities:

- **Model PEH101.C.** suitable for retrofitting to existing concrete swimming pools. Mount directly onto the wall using screws and wall plugs, with an external cable (see fig. 1A, page 23).

• **Model PEP100.C.** suitable for prefabricated polyester swimming pools. To be fixed by means of screws, and 2" snap-on connector included in the unit (see fig. 1B, page 23).

• **Model PEL100.C.** suitable for prefabricated polyester swimming pools. Screw fitting using special parts included with the underwater light, (see fig. 1D, page 24).

• **Model PEL100.C.** suitable for prefabricated polyester swimming pools. To be fixed by means of screws, it includes gaskets and special fixing part 2", (see fig. 1E, page 24).

5.2. ASSEMBLY.



Special attention should be paid to the position of the underwater light when fitting it to the wall.

The anchoring of the underwater lights (part no. 14, pages 29-33) is to be fixed bearing in mind that the cable slot must be located at the bottom left, as shown in the diagram figure 2 (page 25).

The recommended distance for the installation of the underwater light is 500-700mm. from the water level, (see figure 3, page 25).

The underwater light is received in its packaging assembled and with the cable rolled up in its housing. To extract the underwater light anchor (part no. 14, pages 29-33), proceed as follows:

- 1 - Remove the underwater light from its packaging and unroll the cable.
- 2 - Release the lower part by turning the cover clockwise.
- 3 - Release the anchor, part no. 14 (pages 29-33) and fix it to the wall.
- 4 - Follow the steps described in figures 1-3 (pages 23-25).
- 5 - Before finally fitting the underwater light, manually check that the hexagonal plug (no. 11, pages 29-33) is well fitted and is water-tight, once the excess cable has been rolled up into its housing (between the wall and the star), as shown in figures 4 (page 26).
- 6 - Fit the cover over the screen, as shown in figure 5 (page 27) and anchor it by turning it in the CLOSE direction, as shown in figure 6 (page 27).

5.3. DISMANTLING.



To replace the bulb, remove the screen by turning the cover in the OPEN direction, as shown in figure 6 (page 27).

Once the screen has been removed, unroll the excess cable from its housing to place it on the edge of the swimming pool as shown in figure 7 (page 28). The screws holding the screen should now be visible. Remove the screws as shown in figure 8 (page 28) and replace the bulb. Note that being a halogen bulb, it should not be touched with unprotected fingers.

5.4. WARNINGS.

CAUTION

- 1 - Persons installing or handling underwater lights must be suitably qualified and be familiar with the IEC364-7-702 STANDARD: WIRING IN BUILDINGS. SPECIAL WIRING. SWIMMING POOLS.
- 2 - Do not handle the underwater light while it is connected to the power supply.
- 3 - Do not switch on the underwater light while it is out of the water.
- 4 - The bulb should not be powered by a voltage of more than 12 Volts.
- 5 - Do not use any type of bulb other than the KRIPSOL reference item (LP100.C).

1. DESCRIPTION

1.1 Les projecteurs extra-plats KRIPSOL sont construits en ABS injecté de couleur blanche, matériau inaltérable aux agents physiques et chimiques. Le verre de lampe est en polycarbonate transparent.

1.2 CARACTÉRISTIQUES TECHNIQUES.

- Le projecteur extra-plat KRIPSOL est conçu pour être utilisé avec une lampe halogène de 10C watts.
- Il doit être utilisé immergé en eau douce ou légèrement traitée.
- Nous conseillons de ne pas l'installer à plus de 1,5 m de profondeur.
- Le degré de protection du projecteur est IP68. Tension de sécurité 12V (courant alternatif).
- Le projecteur suit les normes internationales de sécurité CEI 60598-2-18: 1993 (Luminaires pour piscines et usages analogues)
- Ce projecteur est un récepteur électrique classe III (S/RBT.MI BT 031, PTO 1.2).
- Le fabricant n'est pas responsable de montages, installations, mises en service, manipulation ou incorporation de composants non réalisés par lui.

2. GÉNÉRALITÉS

2.0 INTRODUCTION.

Ce manuel contient les instructions nécessaires à l'installation, à l'utilisation et à la maintenance du projecteur extra-plat KRIPSOL pour piscines. Pour obtenir les performances indiquées par le fabricant sur les Feuilles de Caractéristiques, il faut que soient correctement toutes les

recommandations données dans ce Manuel.

Cela permet de travailleur avec un équipement sûr et durable.

Le fournisseur de l'équipement fournira à l'utilisateur les renseignements complémentaires dont celui-ci aura besoin.

2.1 SIGNES DE SÉCURITÉ DANS LE MANUEL D'INSTRUCTIONS.

Les instructions qui se réfèrent aux risques pour personnes, seront accompagnées des deux symboles suivants:

Attention
Danger en
général

Attention
Danger de
décharge électrique



Norme DIN
4844-W9



Norme DIN
4844-W8

D'autres instructions rattachées au fonctionnement de l'équipement et dont le non respect peut nuire physiquement, sont accompagnées de l'inscription:

ATTENTION

2.2 RESPONSABILITÉ.

Le non respect des instructions données par le fabricant dans ce Manuel pour le choix, le maniement, l'installation, la mise en marche et la maintenance de l'unité, relève le fabricant ou le distributeur de toute responsabilité pour accidents éventuels causés aux personnes ou dommages causés au reste des installations, et entraînera la perte de la garantie.

**MONTAJE EN HORMIGON / MONTAGE IN CONCRETE / MONTAGE EN BETON
MONTAGE IN BETON / MONTAGGIO IN CEMENTO**

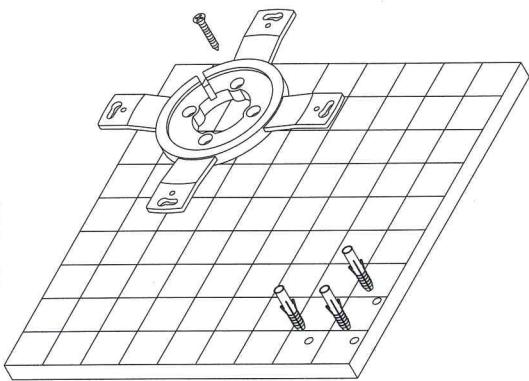


Fig. 1A / Bild 1A

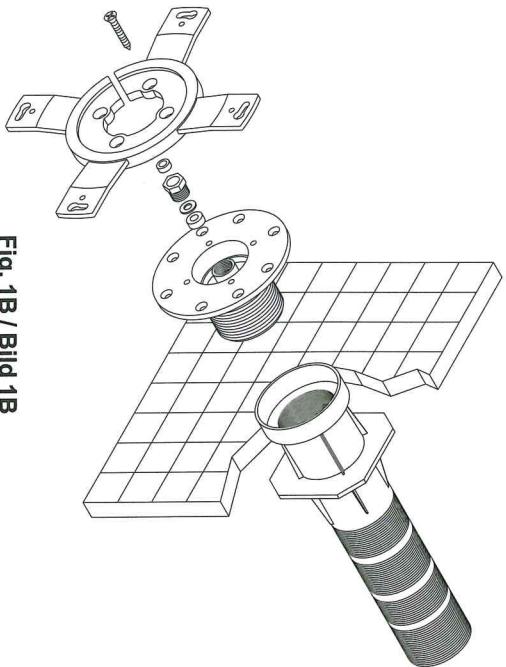


Fig. 1B / Bild 1B

MONTAJE EN LINER / MONTAGE IN LINER / MONTAGE EN LINER
MONTAGE IN LINER / MONTAGGIO IN LINER

Fig. 1C / Bild 1C

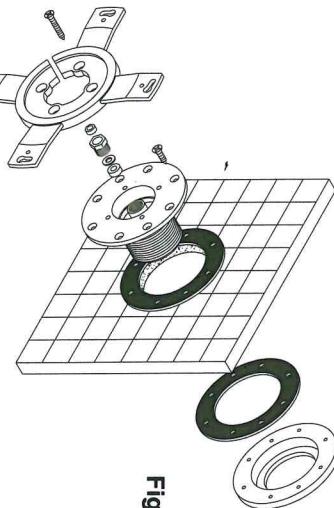


Fig. 1D / Bild 1D

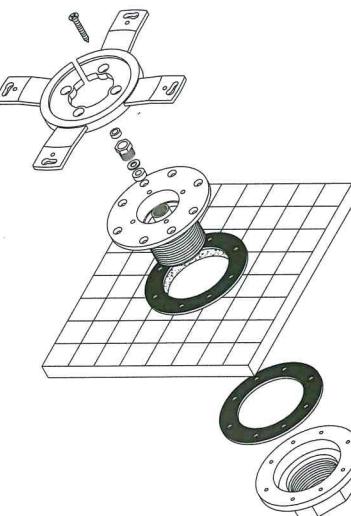
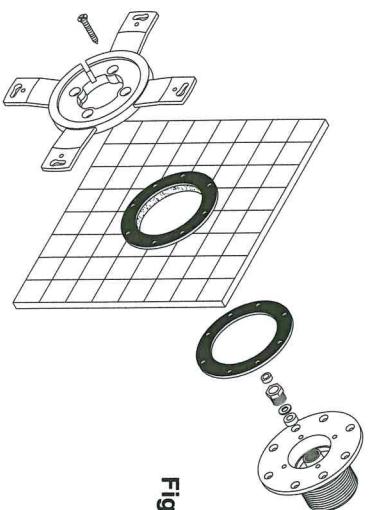


Fig. 1E / Bild 1E



MONTAJE / MONTAGE / MONTAGGIO

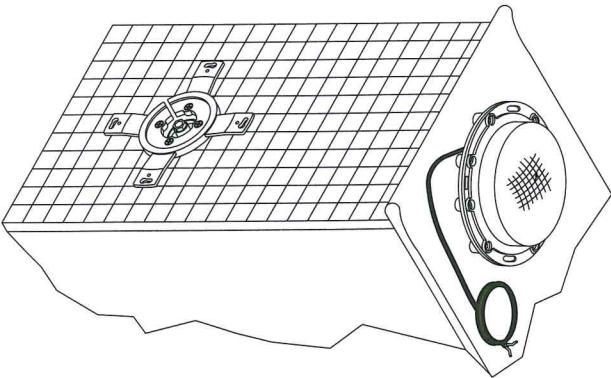


Fig. 2 / Bild 2

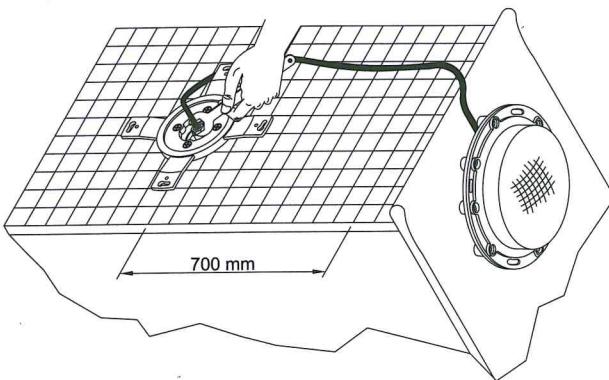


Fig. 3 / Bild 3

MONTAJE / MONTAGE / MONTAGGIO

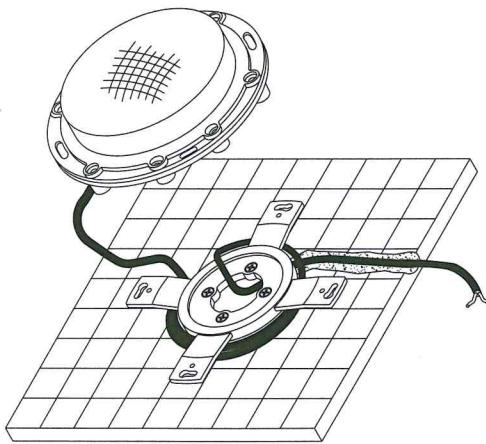


Fig. 4 A / Bild 4 A

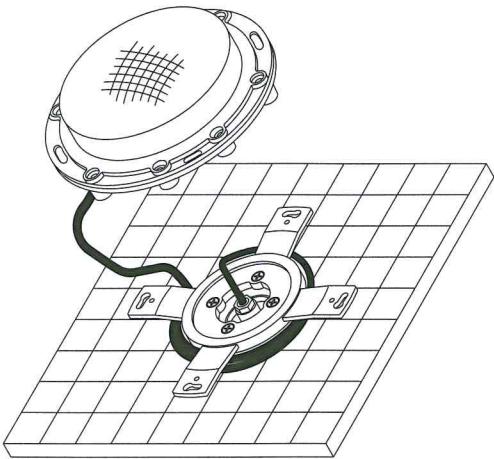
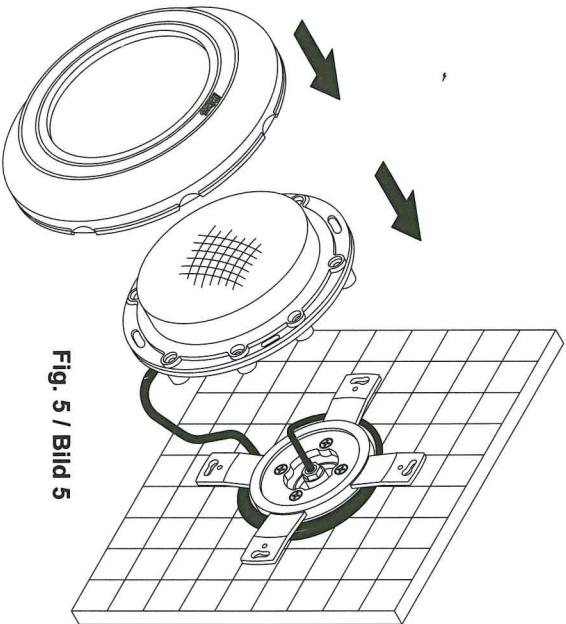
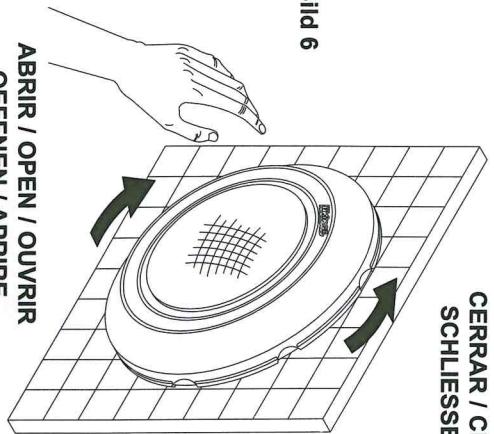


Fig. 4 B / Bild 4 B

MONTAJE / MONTAGE / MONTAGGIO



CERRAR / CLOSE / FERMER
SCHLIESSEN / CHIUDERE



ABRIR / OPEN / OUVRIR
OEFFNEN / APRIRE

MONTAJE / MONTAGE / MONTAGGIO

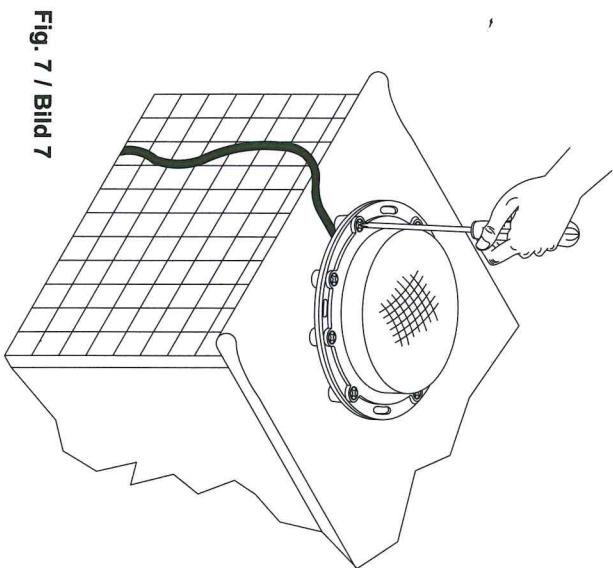


Fig. 7 / Bild 7

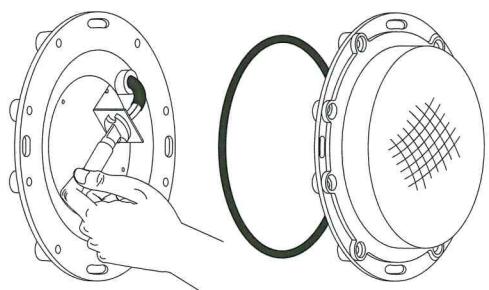
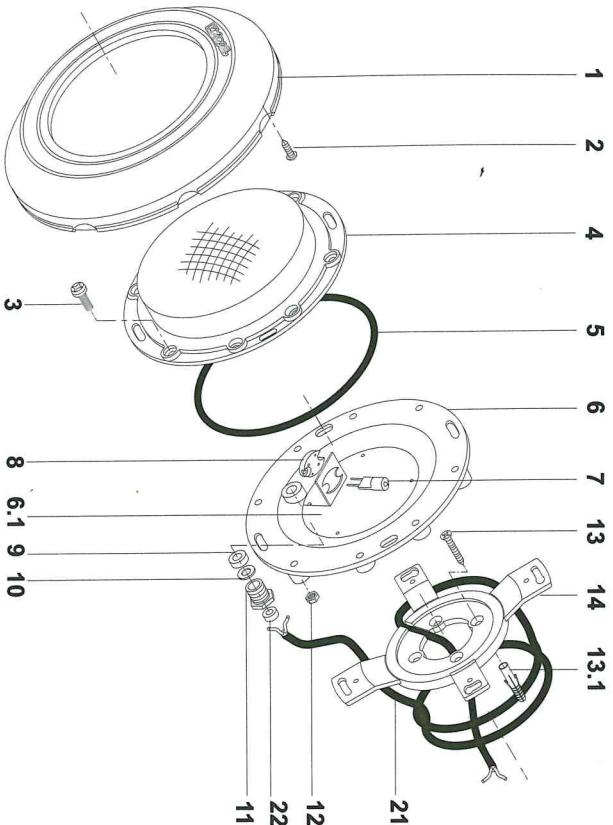


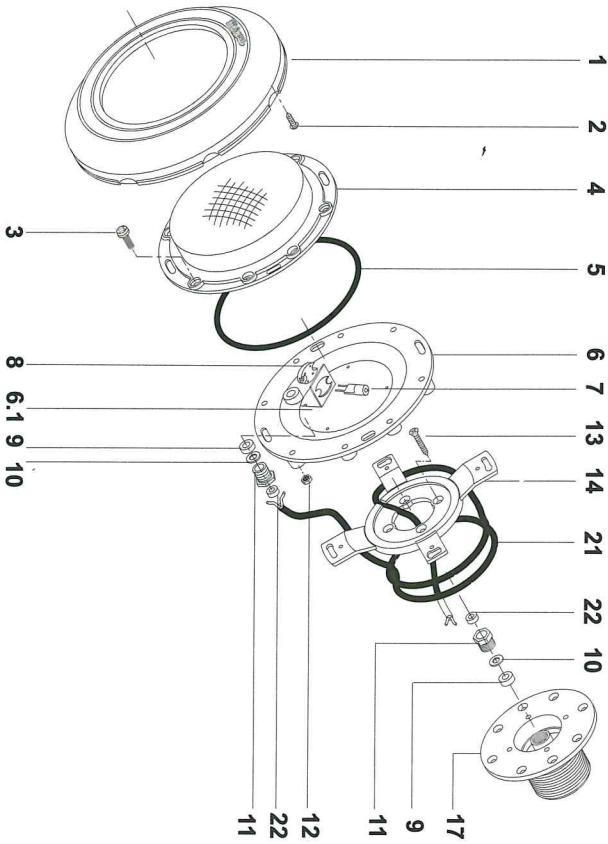
Fig. 8 / Bild 8

MODELO / MODEL / MODÈLE / MODELL / MODELLO PEH100.C



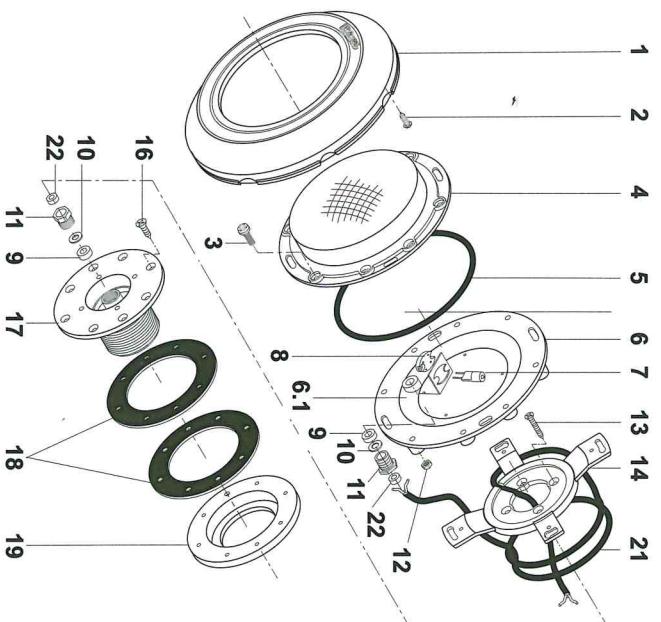
POS.	DENOMINACION	DESIGNATION	DESIGNATION	BEZEICHNUNG	DENOMINAZIONE
1	Embellecedor	Cover	Enjoliveur	Abdeckung	Elemento decorativo
2	Tornillo	Screw	Vis	Schraube	Vite
3	Tornillo	Screw	Vis	Schraube	Vite
4	Pantalla	Screen	Verre de lampe	Schirm	Schermo
5	Junta tórica	O-ring	Joint	Dichtung innen	Guarnizione OR
6	Base portalámparas	Bulb holder base	Base de la douille	Träger für Lampenfassung	Base portalampara
6.1	Reflector	Réflecteur	Réflecteur	Reflektor	Riflettore
7	Lámpara	Bulb	Lampe	Lampe	Lampada
8	Portalámparas	Portalampara	Douille	Lampenfassung	Portalampara
9	Junta prensastopas	Gland seal	Joint presse-étoupe	Dichtung für Stopfbuchse	Guarnizione premistoppa
10	Arandela prensastopas	Gland washer	Rondelle presse-étoupe	Schelle für Stopfbuchse	Rondella premistoppa
11	Tapón exagonal	Hexagonal plug	Bouchon hexagonal	Schachtverschraubung	Tappo esagonale
12	Tuercra exagonal	Hexagonal nut	Écrou hexagonal	Secskantmutter	Dado esagonale
13	Tornillo	Screw	Vis	Schraube	Vite
13.1	Tacos	Wall plugs	Chevilles	Cannula	Dobel
14	Andafe proyector	Spotlight anchoring	Ancre du spot	Befestigung für Strahler	Fissaggio faretto
21	Cable	Power cord	Câble électrique	Anschlusskabel	Cavo elettrico
22	Tubo prensa	Gland pipe	Tube presse	Hülse für Stopfbuchse	Tubo-presa

MODELO / MODEL / MODÈLE / MODELL / MODELLO PEH101.C



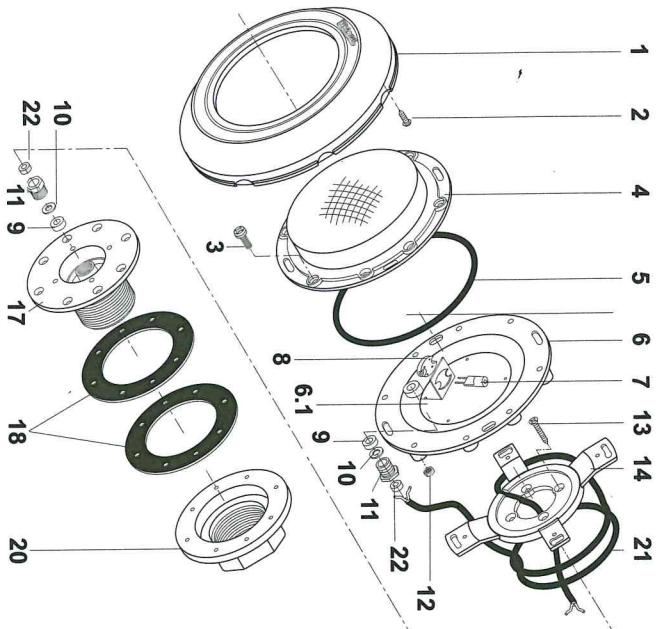
POS.	DENOMINACION	DESIGNATION	DESIGNATION	BEZEICHNUNG	DENOMINAZIONE
1	Embellecedor	Cover	Enjoliveur	Abdeckung	Elemento decorativo
2	Tornillo	Screw	Vis	Schraube	Vite
3	Tornillo	Screw	Vis	Schraube	Vite
4	Pantalla	Screen	Vitre de lampe	Schirm	Schermo
5	Junta lámpara	O-ring	Joint	Dichtung innen	Garnizione OR
6	Base portálamparas	Bulb holder-base	Base de la douille	Träger für Lampenfassung	Base portalamppada
6.1	Reflector	Reflector	Réflecteur	Reflektor	Riflettore
7	Lámpara	Bulb	Lampe	Lampe	Lampada
8	Portálamparas	Bulb holder	Douille	Lampenfassung	Portalamppada
9	Junta prensaestopas	Gland seal	Joint presse-étoile	Dichtung für Stopfbuchse	Garnizione premistoppa
10	Arandela prensaestopas	Gland washer	Rondelle presse-étoile	Schelbe für Stopfbuchse	Rondella premistoppa
11	Tapón exagonal	Hexagonal plug	Bouchon hexagonal	Sechskantverschraubung	Tappo esagonale
12	Tuerca exagonal	Hexagonal nut	Ecrou hexagonal	Schlagschraubmutter	Dado esagonale
13	Tornillo	Screw	Vis	Schraube	Vite
14	Anclaje proyector	Spotlight anchoring	Ancre du spot	Befestigung für Strahler	Fissaggio faretto
15	Boquilla de anclaje	Anclaje frontal	Bouche d'ancre	Befestigungsflansch	Bocchettone di fissaggio
16	Cable	Power cord	Câble électrique	Anschlusskabel	Manicotto elettrico
21	Tubo prensa	Gland pipe	Tube presse	Hülse für Stopfbuchse	Tubo-presa

MODELO / MODEL / MODÈLE / MODELL / MODELLO PEP100.C



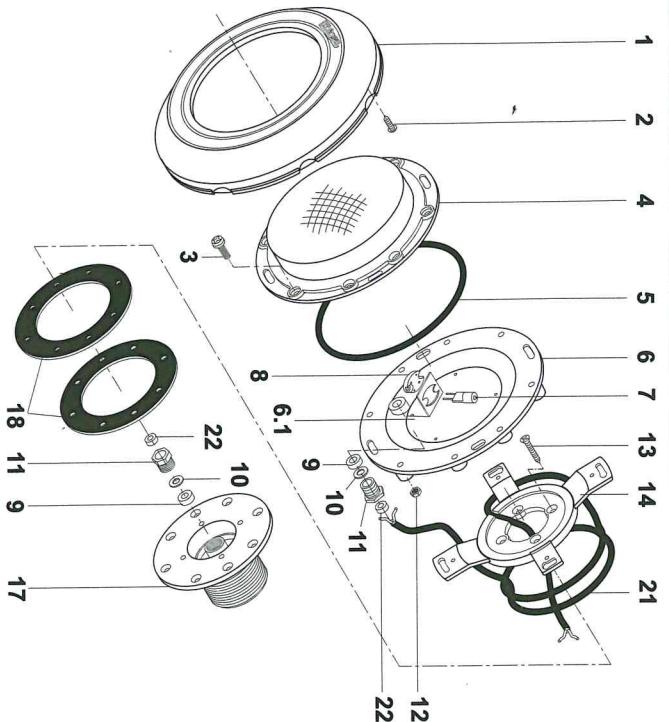
POS.	DENOMINACION	DESIGNATION	DESIGNATION	BEZEICHNUNG	DENOMINAZIONE
1	Embellecedor	Cover	Enjoliveur	Abedeckung	Elemento decorativo
2	Tornillo	Screw	Vis	Schraube	Vite
3	Tornillo	Screw	Vis	Schraube	Vite
4	Pantalla	Screen	Verre de lampe	Schirm	Schemro
5	Junta tórica	O-ring	Joint	Dichtung innen	Guaninzione OR
6	Base portalámparas	Bulb holder base	Base de la douille	Träger für Lampenfassung	Base portalampada
6.1	Reflector	Reflector	Reflecteur	Reflektor	Riflettore
7	Lámpara	Bulb	Lampe	Lampenfassung	Lampada
8	Portalámparas	Bulb holder	Douille	Joint presse-étoupe	Portalamppada
9	Junta preinstopas	Gland seal	Rondelle presse-étoupe	Rondelle presse-étoupe	Guarnizione premistoppa
10	Arandela preinstopas	Gland washer	Gland washer	Scheibe für Stopfbuchse	Rondella premistoppa
11	Tapón exagonal	Hexagonal plug	Hexagonal plug	Bouchon hexagonal	Tappo esagonale
12	Tuerca exagonal	Hexagonal nut	Hexagonal nut	Écrou hexagonal	Dado esagonale
13	Tornillo	Screw	Vis	Schraube	Vite
14	Andante proyector	Spotlight anchorage	Ancrage du spot	Befestigung für Strahler	Fissaggio faretto
16	Tornillo	Screw	Vis	Schraube	Vite
17	Boquilla de anclaje	Anchoring front	Bouche d'ancrage	Befestigungsflansch	Boccettone di fissaggio
18	Junta plana	Joint	Bague de fixation	Dichtung	Guarnizione
19	Anillo selección	Holding ring	Bague de fixation	Befestigungsring	Anello fissaggio
21	Cable	Cable	Câble électrique	Anschlusskabel	Mantocito elettrico
22	Tubo prensa	Gland pipe	Tube presse	Hüse für Stopfbuchse	Tubo-pressa

MODELO / MODEL / MODÈLE / MODELL / MODELLO PEP101.C



POS.	DENOMINACION	DESIGNATION	DESIGNATION	BEZEICHNUNG	DENOMINAZIONE
1	Emellecedor	Cover	Enjoliveur	Abdeckung	Elemento decorativo
2	Tornillo	Screw	Vis	Schraube	Vite
3	Tornillo	Screw	Vis	Schraube	Vite
4	Pantalla	Screen	Vitre de lampe	Schirm	Schemma
5	Junta tórica	O-ring	Joint	Dichtung innen	Dichtung innen
6	Base portalámparas	Bulb holder base	Base de la douille	Träger für Lampenfassung	Träger für Lampenfassung
6.1	Reflector	Reflector	Réflecteur	Reflektor	Reflettore
7	Lámpara	Bulb	Lampe	Lampe	Lampe
8	Portálamparas	Bulb holder	Douille	Lampenfassung	Portálampada
9	Junta prensastopas	Gland seal	Joint presse-étoupe	Dichtung für Stopfbuchse	Guarnizione per stoppbucca
10	Arandela prensastopas	Gland washer	Rondelle presse-étoupe	Scheibe für Stopfbuchse	Rondella premistoppa
11	Tapón exagonal	Hexagonal plug	Bouchon hexagonal	Sechskantverschraubung	Tappo esagonale
12	Tuerca exagonal	Hexagonal nut	Écrou hexagonal	Schlagschraube	Dado esagonale
13	Tornillo	Screw	Vis	Schraube	Vite
14	Anclaje proyector	Spotlight anchoring	Ancre du spot	Befestigung für Strahler	Fissaggio faretto
17	Boquilla de anclaje	Anchoring front	Bouche d'ancrage	Befestigungsflansch	Bocchettone di fissaggio
18	Junta plana	Joint	Joint	Dichtung	Guarnizione
20	Anillo sujeción	Holding ring	Bague de fixation	Befestigungsring	Anello fissaggio
21	Cable	Power cord	Câble électrique	Anschlusskabel	Manicotto elettrico
22	Tubo prensa	Gland pipe	Tube presse	Hülse für Stopfbuchse	Tubo-presa

MODELO / MODEL / MODÈLE / MODELL / MODELLO PEL100.C



POS.	DENOMINACION	DESIGNATION	DESIGNATION	BEZEICHNUNG	DENOMINAZIONE
1	Embellecedor	Cover	Enjoliveur	Abdeckung	Elemento decorativo
2	Tornillo	Screw	Vis	Schraube	Vite
3	Tornillo	Screw	Vis	Schraube	Vite
4	Pantalla	Screen	Verre de lampe	Schirm	Schemma
5	Junta tórica	O-ring	Joint	Dichtung innen	Guarnizione OR
6	Base portalámparas	Base portalámparas	Base de la douille	Träger für Lampenfassung	Base portalampada
6.1	Reflector	Reflector	Réflecteur	Reflektor	Riflettore
7	Lámpara	Bulb	lampe	Lampe	Lampada
8	Portalámparas	Bulb holder	Douille	Lampenfassung	Portalamppada
9	Junta prensostopas	Gland seal	Joint presse-étoupe	Dichtung für Stopfuchse	Guarnizione premistoppa
10	Arandela prensostopas	Gland washer	Rondelle presse-étoupe	Schelle für Stopfuchse	Rondella premistoppa
11	Tapón exagonal	Hexagonal plug	Bouchon hexagonal	Schlagschlankverschraubung	Tappo esagonale
12	Tuerca exagonal	Hexagonal nut	Écrou hexagonal	Schlagschlankmutter	Dado esagonale
13	Tornillo	Screw	Vis	Schraube	Vite
14	Andafijo projector	Spotlight anchoring	Ancre spot	Befestigung für Strahler	Fissaggio faretto
15	Boquilla de andafe	Anchoring front	Ancre d'ancrage	Befestigungsflansch	Bocchettone di fissaggio
16	Junta plana	Joint	Joint	Dichtung	Guarnizione
17	Cable	Power cord	Câble électrique	Anschlusskabel	Mancotto elettrico
21	Tubo prensa	Gland pipe	Tube presse	Hülse für Stopfuchse	Tubo-presa