



# Nicheless Light Manual

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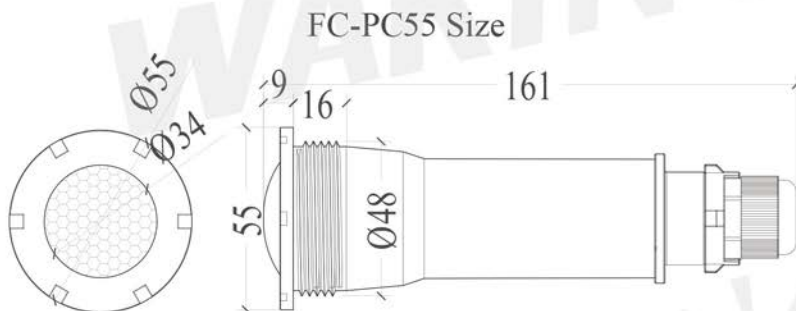


FC - PC55

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## **Warning!**

Before you start the installation, please read this manual carefully!  
This manual contains basic information on installation and operation.



### **1.Installation Precautions**

- 1.1 Please turn off the power before installation to avoid electric shock due to improper operation. Non-professional technicians are not allowed to repair or modify this product without authorization;
- 1.2 Before installation, please check whether the voltage marked on the underwater light is consistent with the input voltage to be connected to avoid damaging the LED underwater light;
- 1.3 This lamp is an IP68 waterproof lamp and needs to be placed underwater for operation. It can be immersed in an environment of 5 meters underwater at the deepest;
- 1.4 The ambient temperature of the lamp is recommended to be controlled between  $-20^{\circ}\text{C} \sim 35^{\circ}\text{C}$  to ensure the normal service life of the lamp;
- 1.5 If the lamp is damaged or has problems, please do not use it!
- 1.6 Corrosive or soluble chemicals may damage the protection of the lamp housing;
- 1.7 It is recommended to use it with the Isolation transformer.
- 1.8 If the lamp fails, please remove all faulty lamps and place them in the same package, and then send them back for inspection, repair or replacement.

## 2. Installation

- 2.1. Underwater light installation recommendations:
  - 2.1.1 Before installing underwater lights, the electrical system must be installed by a licensed or certified electrician;
  - 2.1.2 The junction box and low-voltage transformer must be at least 4 inch above the ground or 8 inch above the highest water level, whichever is higher. The junction box must be at least 4 feet from the edge of the pool (see Figure 1);
  - 2.1.3 Underwater lights must be installed on horizontal walls and are not allowed to be installed on irregular walls;
  - 2.1.4 Leave at least 6 inch of power cord in the junction box or transformer to facilitate installation and inspection;
  - 2.1.5 To achieve synchronization of underwater lights, all underwater lights must be correctly connected to the same switch.
  - 2.1.6 To ensure that the electrical system of the swimming pool or spa meets all applicable requirements, the electrician should also consult the local building department

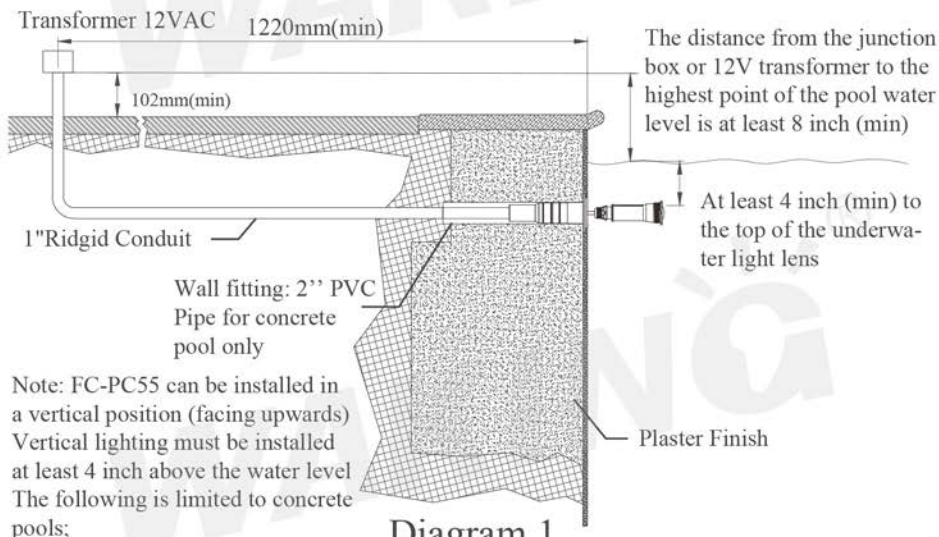


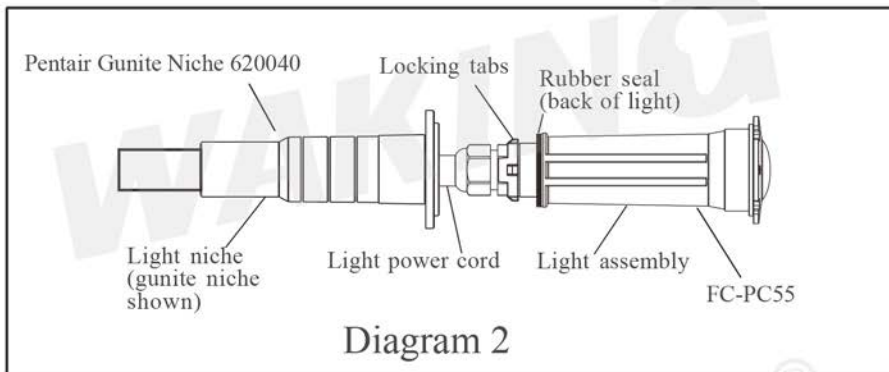
Diagram 1



**Note:** The integrity of the wires in the wall fitting of the underwater lights must be ensured to prevent water seepage from causing damage to the underwater lights.



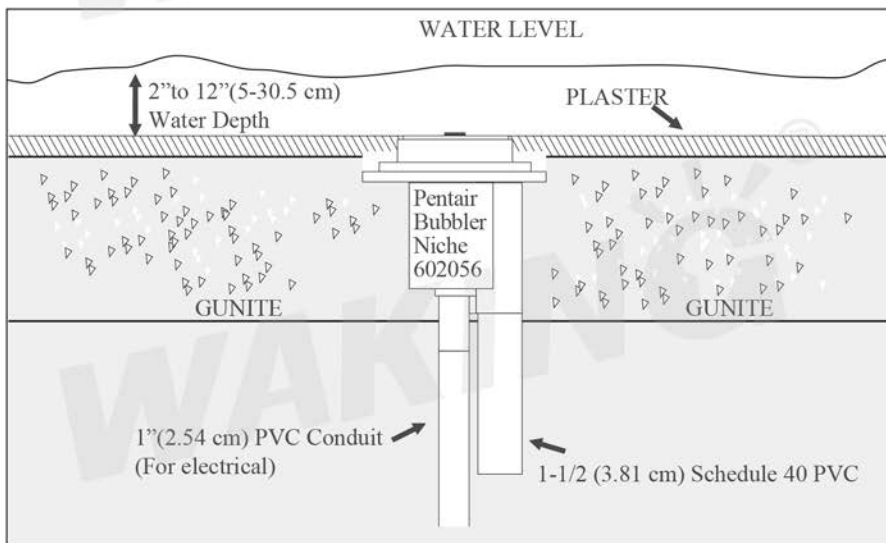
### 3. Installation Instructions - Concrete Pool (Adapted to Pentair's Niche)



#### Note:

1. The underwater light should be installed in water depths between 2~12 inch (5.08 cm-30.5 cm);
2. The niche is designed for 1-1/2 inch (3.81 cm) PVC pipe for the water supply and 1 in (2.54 cm) conduit for the light cable.

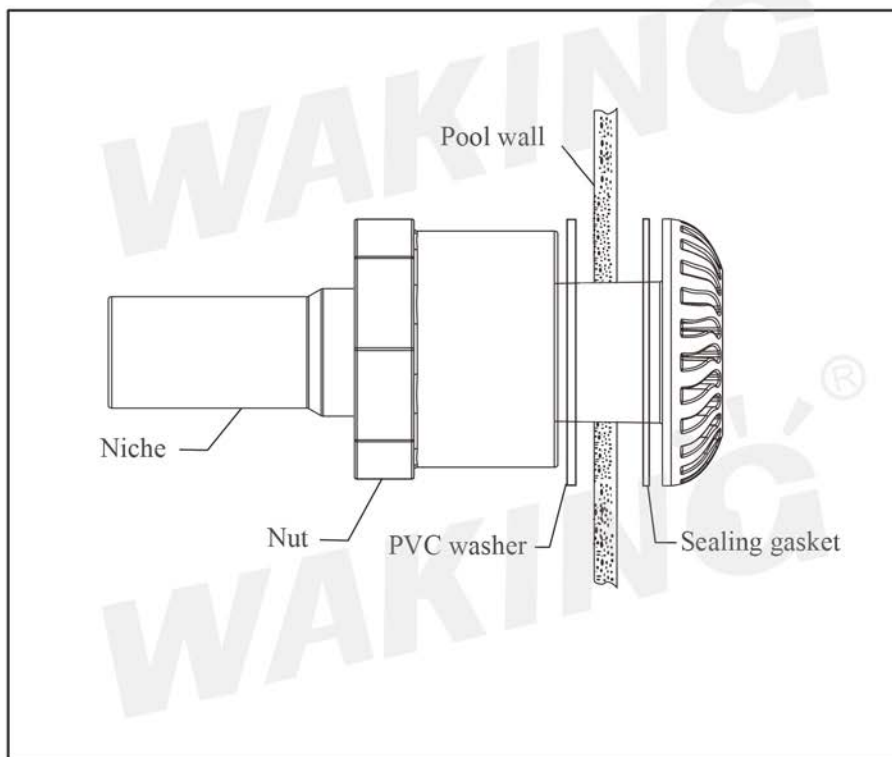
Bubbler installation Diagram



#### 4. Installation Instructions - Fiberglass Pool (Adapted to Pentair's Niche)



pentair  
620041 / 620093 / 620094

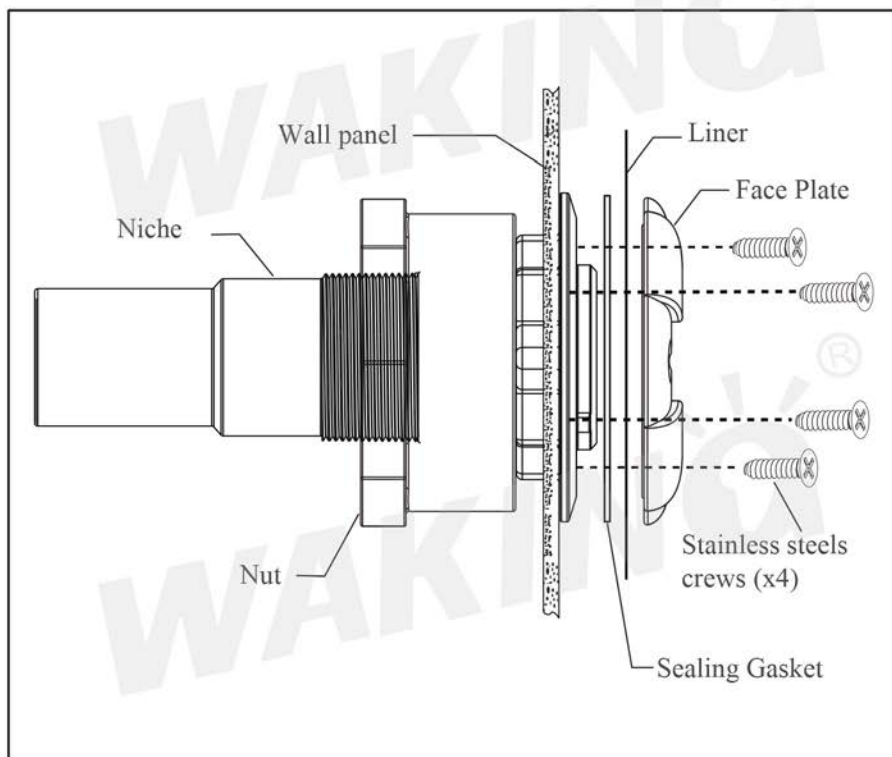




## 5. Installation Instructions - Vinyl liner Pool (Adapted to Pentair's Niche)

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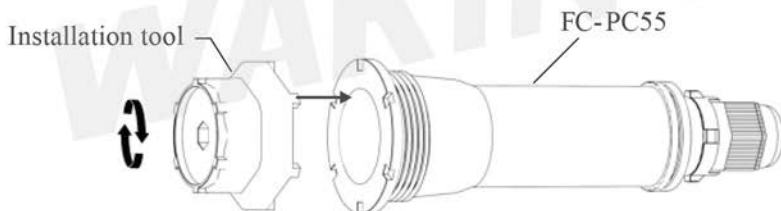




## 6.Note

Note: To ensure that the lamp is fixed in place, you need to use the specific installation tool (included in the package).

The operation is shown in the figure below:



## 7.Troubleshooting

- 7.1 Underwater lights cannot be lit without submerged;
- 7.2 After the underwater lights are installed in the swimming pool, the swimming pool should be filled with water as soon as possible. The underwater lights cannot be exposed to the sun for a long time;
- 7.3 Before lighting the installed underwater lights, please check whether the underwater lights are completely immersed in water and whether the electrical box and circuit are normal;
- 7.4 This product does not require any maintenance. If it does not work properly, please contact local authorized dealer.

Potential Faults	Solutions
Lights are dim	Check transformer voltage; If a compatible controller is installed, check if the underwater light is connected to the controller (if connected, check if it is turned on)
After turning on, the light does not come on	Check where the cables are connected; Check fuses on the electrical panel; Replace the light; Contact a qualified electrician for testing.
After turning on, the light comes on, but does not come on after a few seconds	Check the transformer; Contact a qualified electrician for testing.



## 8. Other related precautions

- \* Never turn on the underwater light without submerged the water, otherwise it may shorten its service life and even burn the integrated components;
- \* In order to connect the underwater light, it is recommended to use an isolation transformer to adapt to the load power;
- \* For user safety, a DR circuit breaker must be installed in the system and the specifications are determined according to the load power;
- \* If you have any questions, please contact the supplier.

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