

129464NJ UV Tube for Compact Ultraviolet Flame Detector User's Manual



Thank you for purchasing the 129464NJ UV tube. This manual contains information for ensuring correct use of 129464NJ. Before operating this product described in this user's manual, please take note of the following points regarding safety.

NOTICE

Be sure that the user receives this manual before the product is used.

Copying or duplicating this User's Manual in part or in whole is forbidden. The information and specifications in this User's Manual are subject to change without notice.

Considerable effort has been made to ensure that this User's Manual is free from inaccuracies and omissions. If you should find any inaccuracies or omissions, please contact Yamatake Corporation.

In no event is Yamatake Corporation liable to anyone for any indirect, special or consequential damages as a result of using this product.

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SAFETY PRECAUTIONS

Safety precautions are for ensuring safe and correct use of this product, and for preventing injury to the operator and other people or damage to property. You must observe these safety precautions. Also, be sure to read and understand the contents of this user's manual.



CAUTION

Cautions are indicated when mishandling this product might result in minor injury to the user, or only physical damage to this product.



CAUTION

- When transporting combustion equipment, remove the UV tube from the equipment and put the tube into a dedicated packing box for transportation. If the UV tube is transported without removing from the equipment, the UV tube might cause malfunction due to the damage caused by vibration and/or shock given during transportation.

1. Introduction

The 129464NJ UV tube is a phototube used to detect ultraviolet radiation emitted by combustion flames. As this unit has a very important function to ensure the safe operation of combustion equipment, please give much attention to it when handling and stocking.

2. Structure

One set of electrodes having a face to receive ultraviolet ray and gas are packaged in a quartz glass tube.

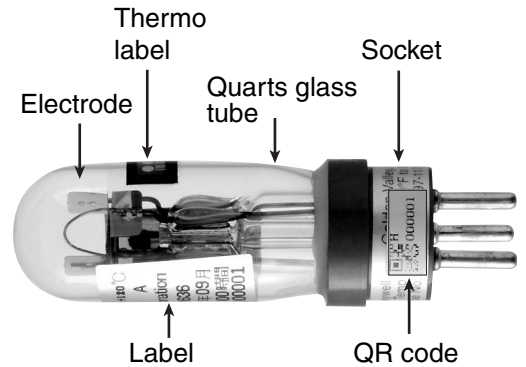


Fig.1

3. Handling Precautions

- Do not use this tube with a device other than the C7035A Compact Ultraviolet Flame Detector.
- When replacing the UV tube, mount and dismount by holding the socket.
- Take special care in handling the UV tube after removing it from the packaging, so that it does not receive impact or shock.
- When storing or transporting, be sure to place the tube in a secure packing box.
- If the ambient temperature increases above 120°C, the white points on the thermo label change color to black. Since this indicates excessive temperature, keep the air cooler by air-purging. Alternately, a sealed adapter (Part No. 81403159) may be used to increase the distance from the heat source.
- The effective life of the UV tube is 3 years or a total of 25,000 hours of use after the date of inspection by Yamatake Corporation. To be safe, be sure to replace the UV tube within this period.

4. UV Tube Replacement Method

(1) Protective cover

Remove and replace the protective cover carefully so as not to damage the UV tube. When putting the cover on, be sure to push it fully to the end so that it does not fall off during use.

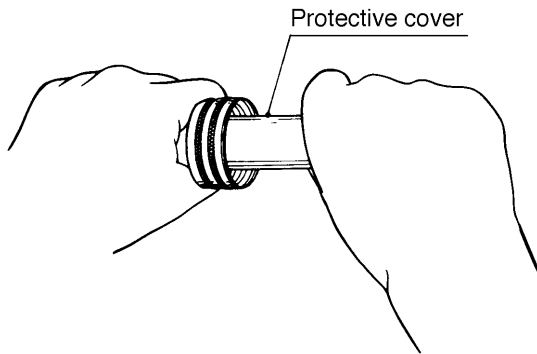


Fig. 2

(2) UV tube

Hold the socket when inserting or removing the UV tube to avoid damaging the tube. To insert, first align the yellow mark on the UV tube with the mark on the socket, and then push the tube fully into the socket.

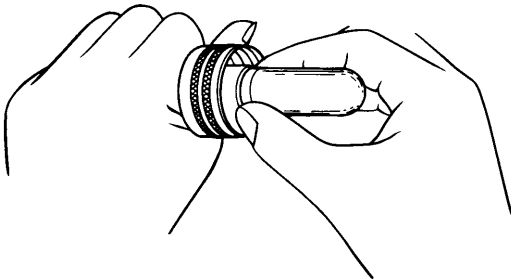


Fig. 3

! Handling Precautions

Do not touch the light-receiving glass face by hand.

5. UV Tube Cleaning

Periodically clean the light-receiving glass face of the UV tube in the following procedure:

- (1) Remove the C7035A from the sighting pipe.
- (2) Dismount carefully the UV tube from socket, and clean the light-receiving glass face by using a soft cloth.
- (3) Mount carefully the UV tube into the socket, and then mount the protective cover as before.
- (4) Mount the C7035A to the sighting pipe.

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