

Radiant Tube | Flame Detectors and Adapters

RADIANT TUBE BURNERS

Flame supervision can be used with 4723 and 4725 Radiant Tube Burners. The 8838-E-UV Adapter-Detector assembly includes a modified C7035A-1080 Detector and 8790-0 Observation Port.

The 8838-E-UV assembly is threaded into the back of a standard 4723 or 4725 Burner in place of its observation port. An integral observation port is mounted in the upper leg of the "Y", while the lower leg holds the C7035A Detector.

The "Y" fitting can be removed without disturbing the quartz sealing lens in the front of the adapter. The quartz sealing lens must remain in-place to prevent fuel leakage.

Since no burner modification is involved, an 8838-E-UV Adapter-Detector can be added to many existing burners.

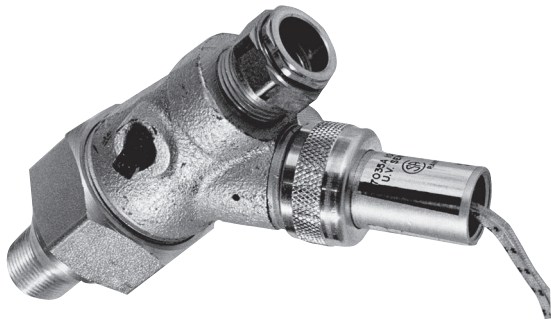
A radiant tube burner flame supervision concept must take into account the fact the UV detector will **not** pick up the pilot flame. Sequence begins trial for ignition simultaneously with both pilot and main flame.

During operation, direct spark ignition or gas pilot **must be interrupted** after normal ignition interval. Pilot air can be left on under all normal operating conditions.

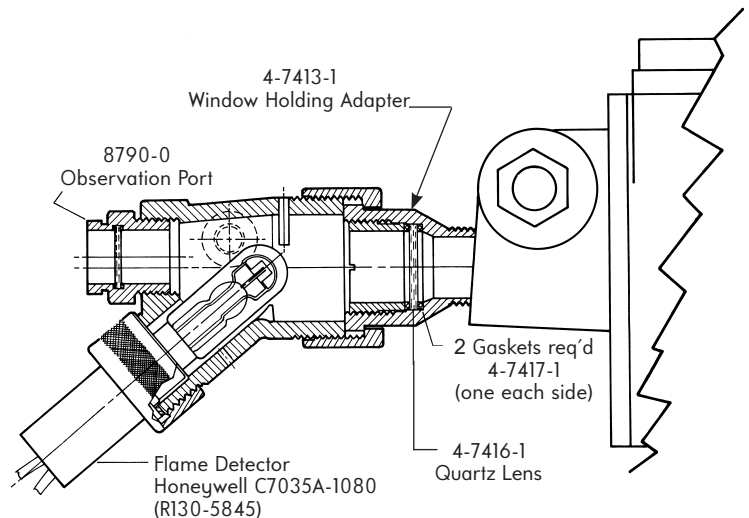
When replacing a UV detector in the field, modify the C7035A-1080 by removing the tubular shield from the UV tube to allow adequate signal strength. Position the detector tube for maximum grid exposure with upright plates at sides.

The 8838-E is rated for up to 10 psig backpressure.

8838-E-UV ADAPTER



To order, specify: 8838-E-UV Flame Adapter-Detector including C7035A-1080 UV Detector, or 8838-E Flame Detector Adapter only. Remove tubular shield and install gasket supplied with C7035A when installing adapter and flame detector.



8838-E-UV Adapter-Detector assembly including C7035A UV Detector and 8790-0 Observation Port

