

**PRODUCT INFORMATION BULLETIN**

**DATE:** January 31, 2003

**TO:** All Dunkirk Boiler Customers & Representatives

**FROM:** Technical Service Department

**SUBJECT:** Dunkirk Quantum 90 Boiler

Dunkirk Boilers is pleased to announce two improvements to the Q90 series boilers:

- 1) The Hot Surface Igniter on the Q90-100 boiler has been revised to improve life expectancy.
- 2) Designated flame sensor ground wires have been implemented on all Q-90 boilers to improve flame signal recognition.

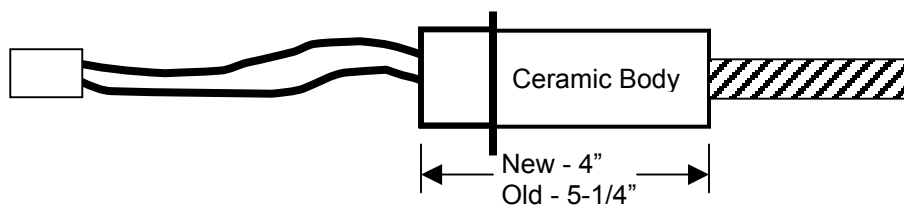
**Igniter Change:**

Starting serial numbers for the Igniter change are as follows:

**Dunkirk Q90-100 series: 300200341S**

It has been determined that the shorter igniter used on the Q90-50 and 75, operates at lower temperatures during boiler main fire than did the longer Q90-100 igniter resulting in longer life. The shorter igniter, part number 43800013, is now being used in production of all Q90 boilers as well as for replacements of any age Q90 boiler currently installed in the field.

**HOT SURFACE IGNITER STYLES: (Old v. New)**



We are currently accepting warranty return of any of the long igniters (part no. 43800014) you may have in stock for exchange for shorter igniters. Please contact the Dunkirk Customer Service Department at 716-366-5500 to arrange for a warranty exchange.

(Over)

**Ground Wires:**

***-For Q90 boilers with United Technology (UT) ignition controls only-***

Starting serial numbers for implementation of the ground wire change are as follows:

***Dunkirk Q90-100 series: 300200341S***

It has been determined through engineering tests that a ground wire specifically designated for the flame rectification circuit of the ignition system on the Q90 series of boiler, improves the strength of the flame signal reducing the chance of boiler shutdown or short cycling on flame failure mode. This designated wire runs from the ground terminal on the gas valve, back to the integrated boiler control.

In addition to the flame signal ground, a wire to improve the overall grounding of the boiler to the buildings electrical ground has also been implemented. This wire is contained in the boilers electrical junction box, and runs from the on-off switch ground screw, to the junction box ground screw.

All boilers starting with the serial numbers listed above have been equipped with the new ground wires. A field retrofit kit has been developed for boilers that have already been installed and exhibit problems due to a flame failure mode. The kit can be field installed in only a few minutes and is provided free of charge. Please contact the Dunkirk Customer Service department at 716-366-5500 if your customers Q90 boiler is a candidate for ground wires.

Q90 Ground Wire kit number: 2272058

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