

Technical Update July 2015

Dear Installer,

We discovered that some installers were changing the flexible hose we supplied with our boilers for a “long-life” hose. Although these hoses were from a reputable source (Bentone) with a life expectancy of 3-5 years the fact they are being changed clearly demonstrates the concerns and experience installers have out there “in the field”; no doubt, prompted by low quality flexible oil lines on the market, and also short “service life periods” often prescribed.

We want installers to have total confidence in every aspect of our boilers. To “knock these issues on the head” Hounsfield Boiler’s are now supplied with Teflon[®] cored, stainless steel braided hose. Teflon[®] hoses will outlast rubber or thermoplastic hose; you’ll find them in places like the space shuttle, air craft landing gear and braking systems. They’re a modern equivalent of the old Boulter / Europower hoses which, some of you will know often outlast the lifetime of the boiler.

Another great “quality feature” and “life time” cost benefit with Tuscan Boilers!

Below is a detailed technical specification of the hose.

Kind regards



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Smooth Bore PTFE hose with 304 stainless steel one wire braid

Hose Liner: Seamless extruded PTFE tube, made exclusively from 1Teflon 62 PTFE polymers. The choice of this grade, together with the extrusion, heat treatment and quality control programmes are designed to produce the best quality PTFE tube possible, ensuring minimum porosity and maximum flexibility.

Hose Braid: Braided from AISI grade 304 stainless steel wire, bright hard drawn to a minimum 1700 N/mm² tensile strength. The braiding process is closely controlled to ensure even tensions and the correct braid angle, to give minimum expansion/contraction under pressure.

Standard Wall : For general purpose use, including high and low pressure steam, chemicals, paints, inks, adhesives, fuels, oils, detergents, refrigerants and foodstuffs.

Temperature Resistance: PTFE hose is usable from -70°C up to +260°C, dependent upon the braid and the working pressure.

Chemical Resistance: PTFE is the most chemically resistant material known, and is only affected by a small number of very uncommon chemicals; Fluorine Gas, boiling Alkali Metals, Chlorine Trifluoride and Oxygen Difluoride.

Flexibility with Strength: Smoothbore PTFE hose has excellent dynamic flex life, and performs well at high pressures in flexing or vibrating applications.

Self Cleaning: The famous non-stick nature of PTFE ensures that material passing through does not become 'hung up' inside the hose, creating the risk of bacterial growth, or contamination. The hose, therefore, is effectively selfcleaning.