

Hydro cleaning procedure – step by step

Step 01 : Shut down the boiler and wait a minimum of time allowing the boiler to cool.

Step 02 : Remove inspection hatch in uptake box.

Step 03 : Remove the burner unit, and access the furnace room.

Step 04 : Install the cleaning plugs at the bottom of the pin tube elements and tighten the 3 screws

Step 05 : Tighten the 3 pcs of M20 nuts on each plugs to allow for the gasket to expand and create a water tight sealant inside the pin tube elements.

Step 06 : Connect the cleaning plugs to the collector unit. Fill the pin tube elements with washing water through the water inlet valve on the collector unit. When each pin tube element is filled with water close the water inlet valve. (Washing water may have to be replenished as necessary during the cleaning).

Step 07 : Depending on the degree of soot deposits it may be necessary to add 10% soda ash solution into the washing water.

Step 08 : Allow for a steady flow of compressed air to be injected through the air inlet valve on collector unit.

Step 09 : Depending on the degree of soot deposit each pin tube element has to soak for a period of 7-9 hours.

Step 10 : After completed cleaning procedure. Washing water from each pin tube element is to be drained through the drain outlet valve on the collector unit.

Step 11 : When it has been ensured that the washing water has been completely drained. Refill the pin tube elements with fresh water and flush carefully each pin tube element.

Step 12 : It must be ensured that any washing water and loosened deposits are removed from the furnace floor.

Step 13 : If any water has been in contact with the furnace room it is important that the boiler is dried out immediately after end hydro cleaning. Due to soot deposits caused by oil burner contains sulphur which will react chemically with water to a highly corrosive sulphuric acid.

Step 14 : Reinstall inspection hatch on uptake box.

Step 15 : Swing burner back into position.

Important : If furnace refractory has been soaked in water, the furnace must be heated slowly up in order to evaporate the absorbed water from the refractory.

Step 16 : The boiler is now ready to go into normal operation.