

RO Benefits to High Pressure Steam Boiler Uses

High Pressure Steam Boilers need constant monitoring to ensure the TDS, pH, Gasses and Natural alkalinity are controlled, also as the Steam returns to Condensate CO₂ is absorbed from atmosphere and corrosion in systems & steam boilers occurs this is why a good Water Treatment system is essential to keep it all running in a cost effective manner.

Reverse Osmosis removes the dissolved Solids reducing the TDS goes to very low levels in the make-up water, this reduces the amount of blow downs, increasing the number of times the Water Can be Cycled in the Boiler and removing ALL the other dissolved minerals in the water including the Alkalinity it also produces near neutral water consistently combine all this together this reduces energy losses greatly saving money on Gas, Heating Oil or even electricity, Treatment Chemicals, Effluent Charges, ph Correction of waste water, Disposing of Very Hot water down the drain.

If you have a Condensate return of Less than 60% and you have a High Natural Alkalinity (RO replaces De-Alk and DI Plants so NO More hazardous chemicals in your plant room area) you could save up to a Third on your energy bills.

It is common to find Energy savings normally recover the plant cost between 12 – 24 months, we have worked with numerous clients indicating < 12 months has been achieved, also as the TDS has been reduced the Boilers have had NO scale build up reducing the maintenance and increasing the life of the Boiler System.

If you require more detail then do not hesitate in contacting ADEPT Pure Water Ltd and you can supply the following information we can carry out a Free of Charge Cost saving prediction and site visit.

To enable us to carry out a Free of Charge Cost saving prediction and site visit, please supply us with the following information:

Information Required	Your Information
Boiler Size & Number	Tonnes
Average Monthly/Yearly Steam Usage	Tonnes
Average Condensate Return	%
Average Make up	M3/year
Feed Water Analysis (TDS, Hardness, Alkalinity, pH etc)	
Present Water Treatment (e.g. Softeners)	
Boiler TDS Set Point	ppm
Feed-water Temperature	°C
Feed-water Quality	TDS
Boiler Pressure	Bar
Efficiency	%
Installed Blow Down/Heat Recovery	
Gas or Oil Cost	£/kWh or £/litre
Electricity Cost	£/kWh
Water Cost	£/m ³
Effluent Cost	£/m ³