



HEAT RECOVERY

In hot water boilers for heating and sanitary water, a large amount of thermal energy is released from the exhaust gases into the atmosphere.

Heat recovery is the process by which we take advantage of much of the thermal energy contained in the boiler exhaust before it is released into the atmosphere.

Heat recovery is achieved with heat exchangers. Heat exchangers are special, stainless steel structures that exchange thermal energy between two fluids or, two gases or, a liquid and a gas such as the boilers hot water.

OSCAR heat exchangers for OSCAR hot-water boilers are made entirely of stainless steel INOX 316 L at all points where exhaust gas passage and therefore condensation occurs.

The benefits of heat recovery are many and among other things we achieve:

- Fuel economy, for the same amount of energy we need less fuel, or vice versa, for the same amount of fuel expenditure we get more energy.
- Less environmental burden as pollutants are significantly less especially CO and NO_x, H₂SO₄ (oil case)
- Economize the cost of buying and installing a chimney as we need it with smaller cross section.
- Increase system lifetime as the burning is better and less pollutants attack the boiler construction materials. This is how we achieve it reducing the time and cost of maintaining the boiler

SOME SAMPLES OF STAINLESS STEEL HEAT EXCHANGER THAT OSCAR INDUSTRIES USE

