



## **CENTRAL HEATING PELLET BOILERS**

**H2o 18 & 34**

**Compact 18 & 32**

### **WOOD PELLET BURNING BOILERS**

Wood pellets are a relatively new phenomena and in parts of the country where they have been available, sales of pellet burning appliances have grown, obviously, in other areas they have not. Due to the imminent opening of new pellet making plants, it is likely that pellets will become more readily available, at the right price, the right price being the key here.

#### **WHY PELLETS?**

Pellets can be made from the waste materials, which are produced when wood is processed. Ideally an existing wood processor would bolt on to the end of his factory a pellet making plant, the pellet plant could then process the waste and convert a costly and troublesome by product into a profitable and useful commodity! **Wood Pellets.**

Pellets comprise of wood waste, sawdust and wood bark, which can be formed, through the application of high pressure, into a specific sized pellet which can be manufactured in either 6 or 10mm dia.

As in all walks of life there are good and bad; pellets are no exception and so as would be expected, to protect the general public, European Standards have been applied, here is the reference number of one of the standards **CEN / TS 14961.**

Because the pellets are manufactured under workshop control conditions, the size, moisture content, and energy content can be precisely controlled, this precision control means that the pellets can be looked upon in the same way as gas or oil in as much as they can be ignited and extinguished automatically.

This degree of automation available means that the pellet boiler or stove can be run in a similar way to an oil or gas boiler, i.e. **TIMED ON OR OFF** and this is where the savings can be made.

Unlike the gas or oil flame, the integrated control in the Pellet Boiler allows a time of up to 20 minutes for the ignition sequence and 20 minutes for the stopping sequence and so during the timed on periods, pellet boilers go from hi fire to low fire as opposed to oil or gas boilers which turn the flame on or off, the pellet boiler function is known as "**modulation**".

As opposed to the gas or oil boiler "**on - off**".

Even with the modulation regime of the pellet boiler, a much higher degree of control and economy is available with a pellet boiler as opposed to the wood stove or wood boiler, (which obviously does not have the benefit of being able to be automatically turned on or off) and during its on times, control water and space temperature to consumer requirements.

With a pellet-fired boiler, the convenience of oil or gas is just not as available in as much as there are extra tasks, which the householder needs do.

Fortunately, most of these tasks do not involve difficult to find technicians, as many of them are simple, day-to-day activities.

On larger scale heating systems, pellets are delivered into bulk pellet tanks or pellet rooms and pellets are then fed automatically into the boiler as and when it needs them.

Installation costs for this type of storage can be very expensive.

### **WHY THERMOROSSI?**

The Thermorossi boilers can be likened to gravity fed anthracite boilers, with the exception that they can be programmed to come on and go off.

Thermorossi offer two versions of H2o and two versions of the Compact with a total of 4 different outputs to water.

All the versions are hand loaded via 10, 15 or 30kg bags.

The H2o is a beautiful, decorative kitchen boiler where the flames can be seen through a large glass door, the heat output is split between space and water.

The Compacts are utility room boilers designed to put nearly all the heat into water.

The combination of décor, automation, performance and cost, results in a range of market leading appliances.

Additional pellet hoppers can be fitted to the Compact 18 and 32.

Details of the boilers are available on display leaflets and technical installation details are also available.

All the versions are system boilers with a built in water circulation pump, expansion vessel and all relative controls.

The boilers can only be fitted to unvented systems and can be plumbed in on a traditional three-port valve system or linked to Solar via a Thermal store or twin coil cylinder.

The appliances are wirelessly controlled via a fully programmable remote control with good visual guidance plus voice warning messages emitted from the boiler in an Italian Accent!

A minimum flue height of 4.5 metres is required and flueing can be made through 100mm (4") Diameter Class 1, flue pipe.

The pellet and wood burning stoves can be seen on -:

[http://www.thermorossi.com/inglese/O1\\_home.html](http://www.thermorossi.com/inglese/O1_home.html)

It is claimed that wood pellets can produce 4.5kW/hour/Kilo. **Price per kilo delivered?**

Oil can produce 10 kW/hour/litre. **Price per litre delivered?**

Gross Figures quoted.

**If you are interested, find out the price of pellets and oil in your area and do the sums.**