



### WESSEX WOOD BOILERS LTD

SWEETINGS BARTON DENE ROAD,  
COTFORD ST LUKE,  
TAUNTON, SOMERSET. TA4 1BL



### **BRIDGE COTTAGE, EAST HUNTSPILL, SOMERSET**

#### REQUIREMENTS

To supply log boiler to heat 4 bed cottage of approx 250m<sup>2</sup> replacing existing oil boiler. The insulation of the house is average with d/glazing but with solid stone walls. Position of new system undecided but new garage available 20m away and also possible small shed near the house.

DHW – existing cylinder to be removed and replaced with either-

- New unvented DHW cylinder – or
- From accumulator tank coils.

Customer is working to a budget and wants good value, he will be applying for a LCBP grant to help fund the installation.

#### FUEL SUPPLY

Customer has good supplies of waste wood from manufacturing company and from local tree surgeons. He has a good supply of ready seasoned logs stacked ready to burn. Expected usage based upon current oil consumption and heat load calculation was around 8tonnes/year.

#### CUSTOMER'S EXPECTATION.

Want to have a system which he can light in the evenings and would supply all heating and DHW for his family – would expect to re-stoke possibly in the mornings if weather very cold and heating on in daytime.

Requires a DHW with good flow and pressure for 2 showers and bath.

System has to be easy to use and would expect other family members to be able to light and run the boiler.



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#### RECOMMENDATION.

Customer wants a good value log gasification boiler, which is simple, easy to use, efficient and well made.

The boiler was to be positioned in the garage with connection to the house via 20mtrs pre insulated pipe @ 25mm.

DHW – option of accumulator coils – would mean more pre insulated pipe and this, with the increase draw off time and water wastage, meant that the best option was a separate unvented cylinder in the house.

VIGAS 25S – 5 – 31kw log gasification boiler package [*German variant with inclusive flue stat and enhanced software in controller*] with –

- Thermovar valve /pump return riser set @1”
- Watts STS20
- Boiler management set 1”

WESSEX 2200NLS - plain 2200ltr accumulator tank – 4 x push fit 65mm dial thermometer gauges  
Unvented DHW cylinder @ 250ltrs.

20mtrs Flexalen 600 2x25mm pipe in duct.

300ltrs pressure vessel.

25mm blender valve/controller + 15/50 Grundfos pump.

6mtr Negarra 150mm chimney system.

#### CONCLUSION

System was installed and successfully commissioned and working very well, the customer was lighting every evening as expected with occasional extra stoking for extra heating requirements. Customer commented that –

“I’m very impressed and pleased with the boiler system and glad that we went for the 2200ltr tank, it gives us that extra flexibility when we have to relight the boiler”

Log usage has been slightly higher than expected, but this has coincided with a very cold winter.

Customer received a LCBP grant and is now looking forward to perhaps registering for the RHI next April 2011.