

SPECFLUE

CASE STUDY



Thermal Integration powers the showers

The Old Store Guest House
Halnaker, Chichester
West Sussex

Thermal Integration powers the showers

The owners of the Old Store Guest House in Halnaker, Chichester are much happier now that they know that their guests won't be complaining about lack of hot water when taking a shower.

The 200 year old former bakery and shop has been tastefully converted into a luxury B&B. Each of the seven bedrooms has an en-suite shower room. However, there were major problems with the existing water system - a gravity fed supply from cold water storage tanks to a direct fired gas heater – as it wasn't able to deliver a good flow of hot water during periods of peak demand.

Thermal Integration is distributed by Specflue who is a leading supplier of renewable heat products and flue systems. It was approached by a previous customer, Jonathan Ellis, of local plumbing and heating contractors, Ellis & Co to put forward a solution to the problem at the guesthouse.

The specification required all seven shower outlets to run at the same time for eight minutes giving a flow rate of 12 litres / minute; closely followed by a second use of each shower within half an hour. To answer this demand, Thermal Integration specified its domestic hot water rapid recovery system, which Ellis & Co duly installed.

Richard Hanson Graville at Thermal Integration commented: "The answer centred round Thermal Integration's rapid recovery system for unvented hot

water storage, which was coupled with a Grundfos Cold Water booster set and Worcester Bosch 40kw condensing boiler. The unique feature of the system is that it uses the full 40 kilowatt boiler output to provide top down recovery of the cylinder."

The overall end result has delighted the owners, Patrick and Heather Birchenough. They said: "There were absolutely no problems with the installation which ran very smoothly and the new system has certainly more than met our expectations. We now have copious amounts of hot water with good flow and pressure. We are delighted with both the installation and its performance. We would certainly recommend this system to other people in the same situation as ours."

Jonathan Ellis explained his reasons for choosing the Thermal Integration system "A like for like replacement would not be able to cope with the high peak demand and the additional boosted flow rate requirements and this was the only option which avoided having to provide excessively large hot water storage tanks."

"The unique advantage of the Thermal Integration system is that the boiler effectively generates usable hot water,

even when the cylinder is under peak load conditions. I was able to reduce the stored hot water volume to a size that would fit the plant room, yet still meet the exacting specification requirements. I trusted the Thermal Integration design team to deliver the solution in every sense and I was impressed by their quick response with their quote, which enabled me to quickly go back to my client and obtain their order to proceed."

Technically talking, the Thermal Integration unit is a 500 litre unvented hot water cylinder, fitted with a 100kw externally mounted plate heat exchanger recovery assembly. The unit is pre-plumbed and pre-wired ready for site connection to the boosted cold water supply, boiler flow and return, and hot water services.

Thermal Integration products are distributed by Specflue.

For further details of Specflue products and services please call 0800 90 20 220; email sales@specflue.com or visit www.specflue.com

'I was impressed by their quick response with their quote, which enabled me to quickly go back to my client and obtain their order to proceed.'

0800 90 20 220 // www.specflue.com