



## case study

# All Saints Church

**Winter was fast approaching and All Saints Church had a problem - Their oil burning boiler had been condemned. So, in an effort to save their flock from getting cold, they called in CBS to do an initial survey, where it was discovered that the heat exchanger had cracked. Biblical efforts were made to try and source replacement parts but found they were no longer available.**

CBS recommended the Ideal Falcon Boiler with a Riello oil fired burner as a replacement. This was selected because it allowed them to utilise as much of the existing pipework, flue, controls and heat receptors as possible. Not only would this reduce the installation cost, but also was twice as efficient to run, minimising the impact on the collection plate for years to come.

Prior to the installation of the replacement boiler, CBS had to drain down the system and dismantle the condemned unit. The flue was then modified to make it compatible with the new boiler. The system was then

flushed to cleanse it of any slime, limescale and sludge which could damage the new boiler. As the plant room was located in the basement, the new boiler had to be taken down in sections and rebuilt in situ.

Once the installation process was under way it was noted that additional ventilation to the plant room would be required in order for the boiler to run at optimum efficiency. This posed a problem – in order to create extra ventilation, the installation team would normally have to drill through the outside wall to install ductwork, damaging the aesthetics of the building. Fortunately, CBS are well experienced in working on period properties and had a novel solution in mind.

The result was surprisingly simple. The original heating used a solid fuel burner, the heat was then distributed through ducts within the stone work of the church. To prevent the congregation suffocating, small clover leaf shaped air vents were carved into the masonry in both the church and basement, which was now being used as the plant room. CBS were able to

utilise these air vents in the basement as ventilation for the boiler. This meant only small vents had to be installed into the door of the plant room, maintaining as much of the character of the church as possible.

Once this small problem was ironed out, the boiler was able to heat the church once again, restoring it to a warm place for praise and worship for all the parishioners.

### All Saints Church

All Saints was built during World War One taking just two years to build, and costing £17,168. The church was paid for by a wealthy clergyman living nearby, The Revd Alexander Titley Hall, and opened in 1917. The church was designed by Temple Moore a well known architect who usually tried to make his churches look as if they were older than they really were, ideally dating back to the Middle Ages. All Saints' is built of brick, but the outside is faced entirely in Chilmark stone. The architectural style could be described as late Gothic Revival.



## COMPLEX WORK

As the plant room was located in the basement, the new boiler had to be taken down in sections and rebuilt in situ.



## A SHREWD MOVE

One of the small clover shaped vents utilised for additional ventilation.



## JOB DONE

The brand-new Ideal Falcon boiler installed and fully commissioned.

"We have been very pleased with the work that CBS carried out for us. Their attention to customer service has been excellent, from our initial enquiries through to commissioning. Allan and his team rose to the all the challenges of working in a basement location under a Grade 2 listed building."

**Revd Rosalind Rutherford, Vicar of All Saints Church**



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Comfort Building Services are based in Basingstoke and operate within a radius of approximately 100 miles. CBS employ a crew of engineers who's combined skills cover all areas of building services.

### Investors in People

Active participants of the Investors in People programme and with the policy of developing their own engineers CBS operate an apprentice-training programme in conjunction with the local colleges.

### Gas Safe, HVCA, NICEIC

In accordance with the requirements of their trades CBS engineers hold the relevant professional qualifications.

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## Project Data

<b>Category</b>	Installation
<b>Description</b>	Replacement of an oil fired boiler and modifications to the existing pipe work & flue
<b>Timescale</b>	1 Week
<b>Value</b>	£5,000 - 10,000

## Services

- Decommissioning
- Equipment Installation
- Modifications to the existing pipework & flue
- Commissioning

