

SUN-X®



By Appointment to
His Majesty The King
Suppliers and Installers of
Ultraviolet Filters and Traditional Blinds
Sun-X (UK) Ltd, Bognor Regis

Welcome to the future of heating and cooling efficiency with OH4 Heat Transfer System, a groundbreaking solution designed to optimise fluid dynamics in heating and cooling systems.

Our revolutionary self-adhesive, pre-programmed magnetic tape is engineered to

- significantly reduce fuel usage
- lower energy bills
- contribute to a greener environment

OH4 creates products that benefit both the environment and its inhabitants, born from a passion for making greener living accessible to all. We aim to lower the barrier to eco-friendly practices by offering a solution that is more cost effective than traditional green technologies.

When applied to the cold water feed and heating return pipes of heating and cooling systems, OH4 Heat Transfer System enhances the efficiency of the fluid within the pipes. By increasing the heat transfer capabilities of the fluid, our innovative solution guarantees maximum performance and minimal energy wastage.

OH4: THE solution in reducing energy bills and impact on the environment.

With the ever-increasing cost of energy and the on-going cost of living crisis, it has never been more important than now to take control of the cost of running a home or business; we work with home-owners and business owners, to save them up to 20% on their energy bills, as well as helping them reduce their carbon footprint.

Our Mission

Our mission is to create affordable solutions that make going green accessible to everyone.

We believe sustainability should not be a luxury but a fundamental aspect of everyday life.

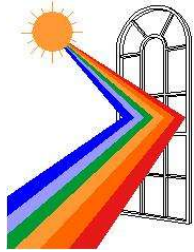
By offering cost-effective options, we empower individuals and businesses to make environmentally conscious choices while simultaneously saving money in the process.

We are committed to providing benefits and contributing to our planet's long-term health and preservation. Together, we can build a brighter, greener future for future generations

Testing

At OH4, our commitment to excellence drives us to continually test and refine our products, ensuring they meet the highest standards of safety and effectiveness. That's why we have been to University of Exeter to independently verify the effect.

Furthermore, we're proud to announce that we've applied to the European Union Environmental Technology Verification (ETV) scheme, further underscoring our dedication to transparency and environmental stewardship. Rest assured, with OH4, you're getting a product that not only delivers results but also prioritises environmental responsibility.



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Hotel Case Study

The Headland Hotel, Fistral Beach, Newquay, Cornwall



The client is an iconic Cornwall hotel renowned for its luxurious accommodation, food and spa facilities. The hotel operators are rigorous in their forward-thinking approach to environmental sustainability and social governance, and supporting youth in the Cornwall area.

The Challenge

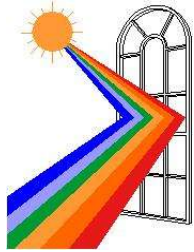
The Client's current annual spend on heating and hot water was £380,883, presenting a significant operational expense. They were eager to identify ways to decrease energy consumption while maintaining the high standards and luxury service their guest expect. In line with their sustainability and cost reduction targets they were keen to explore OH4 Heat Transfer System (OH4) as a potential solution.

Solution

After a short site visit it was agreed that OH4 be installed at the premises with a guarantee that the **installation cost would not exceed the year-one saving**. With no need for any downtime on the heating and hot water system, and access only required in the plant rooms, it was shown that there would be no disruption to hotel and Spa operations. It was agreed that OH4 would work around lettings for the smaller installations to the 40 separate holiday cottages, with 20 installations fitted in April 2024 and the remainder to be fitted in November 2024.

Energy Savings Guarantee

Prior to installation, our initial savings guarantee suggested a 15–20% reduction in gas consumption for the Headland Hotel & Spa. It was guaranteed that the savings would exceed the cost of installation in year 1, with monthly payments being made over a 12 month period. (The model has since changed to spread this over 3 years for future installs).



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Monitoring System

Under the terms and conditions, the Client provides their monthly energy usage data which is adjusted for degree days to remove ambient weather effects and guest numbers to adjust for usage levels from guests. The data for each month is compared to the same month the previous year to provide a KWh per degree day per guest figure which is then compared to see the effect.

Financial Benefits

It must be stated that the hotel has reduced its rate paid for gas, meaning that the amount that would have been paid last year at the current rate is now £216,768. In addition to this OH4 Heat Transfer System has shown a reduction in fuel usage on a KWh per degree day per guest of 25% across the site (with 20 cottages still to be fitted). The saving in 6 months has been £23,779 at the current rate being paid. Estimated saving for the whole year is £54,191

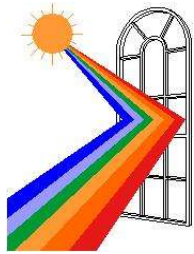
Under our current charging model this would be charged at £43,350 payable £1,806 per month for 12 months, and £903 per month for a further 24 months based on a projected saving of 20%.

From Richard Palmer, Director of the Headland Hotel, Newquay.

"OH4 carried out work for us at the Headland recently, installing the OH4 Heat Transfer System on our heating and hot water systems, for the main hotel, our Spa, Aqua Centre and most of the cottages on our site. We were delighted with how non-invasive the installation was, with no disruption experienced to the hotel's operation, working around holiday bookings in the cottages, and scheduled to complete the work in the autumn.

The installation was carried out on the main hotel building in April of 2024, and since then we have seen savings of energy usage in excess of 20% measured in kWh per degree, per day, per guest, compared against the previous year, to give truly comparable figures.

Steve's work has been highly professional and efficient, and we are delighted with the savings we have seen already, and those we anticipate are to come. We would highly recommend both Steve and his OH4 system to other hotels and guest accommodation, as the results speak for themselves in terms of energy savings, and the system will be a benefit to the hotel for decades to come."



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Does OH4 work on Ground Source Heat Pumps?

In a recent independent test conducted by JC Services, OH4 Heat Transfer System demonstrated remarkable results in improving efficiency and reducing fuel consumption.

During the test:

Two 12KW Kensa Evo Series Ground Source Heat Pumps were set to identical performance, producing 50 degrees Celsius. One heat pump was fitted with OH4 Tape, while the other was not.

Results showed a **27% fuel saving** with OH4 Tape, reducing the running time from 5.5 hours per day to 4 hours per day.

Please note that individual results may vary depending on equipment and operating conditions



Case Study: Gas Combi Boiler

A case study conducted in Penryn from February to April 2022 provides tangible evidence of OH4 Heat Transfer System's effectiveness. The study involved a 3-bedroom house with a gas combi boiler. Smart Meter data for gas usage was collected between 1 February and 9 April 2022, with OH4 Heat Transfer System installed on 9 March 2022.

Comparing the data, there was a significant reduction in energy consumption:

Reduction in KWh per degree day: A **13% decrease** was observed in gas usage per degree day after the installation of OH4 Heat Transfer System.



[View a demonstration video here:](https://youtu.be/INJ6bK-ilB4)

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