

## KEY INFORMATION

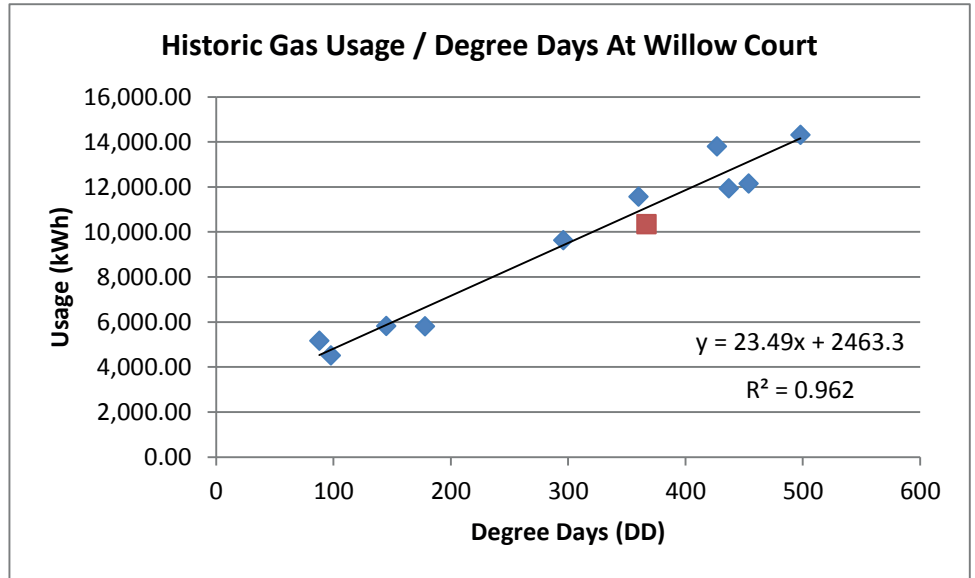
**INSTALL DATE:** 27th Feb 14

**TEST PERIOD:** 1 Month

**REPORTED SAVINGS:**

**13.84%**

Chesterfield Royal Hospital **NHS**  
 NHS Foundation Trust



Regression Analysis using historical gas usage at Willow Court, Chesterfield

## INTRODUCTION

The performance of EndoTherm™ was trialled by Chesterfield Royal Hospital NHS Foundation Trust at Willow Court Care Home. The 10 bedroomed care home had a system volume of 223 litres. 2 Litres of EndoTherm™ was installed on the 27th February 2014.

## RESULTS

Regression Analysis was used on Willow Court, in accordance to the techniques by the internal energy managers of the NHS Trust. Regression Analysis uses historical information to predict future energy consumption dependant on a certain parameter (in this case, Degree Days). From the historical information, a strong trendline with a correlation co-efficient ( $R^2$ ) of 0.962 was ascertained meaning we can reasonably assume that the future consumption can be predicted with a degree of certainty. The equation of the line is;

$$y = 23.49x + 2463.3 \text{ (where } y \text{ is the degree days for the specific time period)}$$

<b>Predicted</b>	<b>11,084.13</b>
<b>Actual</b>	<b>9549.56</b>

**Total Saving - 13.84%**

'Another success for the product EndoTherm™ *Energy Manager - Chesterfield NHS Foundation Trust*