

**TOTAL SAVINGS:**

**15.53%**

**AVERAGE SAVINGS**

**FINANCIAL SAVINGS:** \$14,294  
**CO<sub>2</sub> SAVINGS:** 98,922KG  
**Installed:** MAR 2016  
**Trial period:** 3-10 Months  
**Volume installed:** 156 Liters



**The performance of RAPID BOIL™ was trialed by EMCOR UK at Lingley Mere, Warrington.**

The 100 acre site was originally developed to be the Head Quarters of water company United Utilities. Since its launch the site has grown with new office space developments which are leased by a number of local and national businesses. The site is managed by FM provider EMCOR UK. RAPID BOIL™ was trialed in United Utilities main offices, Haweswater, Ullswater, Windermere as well as smaller buildings of Clearwater 2, Clearwater 4, and the Security Office.

Installs began in March 2016 but trial lengths are varied due to office protocols to turn off heating during the summer months in certain locations. The heating was turned back on in late September 2016 and was monitored until the end of February 2017. The energy management team at EMCOR UK provided actual meter readings (AMR) which were used for comparison with usage data from the same period after RAPID BOIL™ was installed. The comparison was compensated using degree days sourced from nearby Liverpool Airport (baseload 15.5°C). All financial savings were calculated based on **only 3 cents** per kWh and all CO<sub>2</sub> saving calculations are based on 0.184kg CO<sub>2</sub> per kWh saved.

SITE	Qty RAPIDBOIL	Duration	Saving (%)	Saving (\$)	Saving (kgCO <sub>2</sub> )
Haweswater	50L	6 Months	9.52%	\$2,122.78	14,887
Clearwater 2	3L	3 Months	18.51%	\$242.02	1,697
Clearwater 4	2L	7 Months	15.3%	\$209.66	1,470.3
Security Centre	3L	10 Months	18.3%	\$317.57	2,227.17
Windermere*	38L	7 Months	12.1%	\$3,365.51	23,601.73
Ullswater*	60L	6 Months	19.52%	\$8,037.08	56,363
<b>TOTAL</b>	<b>156L</b>			<b>\$14,294.62</b>	<b>98,922kg</b>

\* NOTE- Pipe lagging insulation was installed at these sites during the trial period.