

Date 6th Jan 2026

*Project* London Office *Project no.* 33  
*Engineer* KAL *Checked by*  
*Date checked*  
*File* C:\Users\khalid\Documents\Hevacomp Projects\Crawford London Office\General\General\Hevacomp DDB\

*Rooms included* Room 04 selected  
*Heating system* Heating only (wet system)  
*Recirculation* -  
*System resistance* -  
*Fan efficiency* -  
*Duct gains* -  
*Heating controls* Intermittently heated, fixed time start, One stat/room unshaded  
*Supply air temp.* -  
*Air changes* -  
*Plant capacity* Plant ratio 1.2, boiler efficiency 70 %, transport factor 40  
*Heating fuel* Gas, cost for heating 6 p/kWhr  
*Electricity* Cost for pumps and fans 27 p/kWhr, lighting 27 p/kWhr  
*Heat losses* Resultant temperatures, Complex heat loss model  
*HWS demand* 4 l/person/day at 40 °C

*Plant operation and load factors (%)*

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
<i>Season</i>	Win	Win	Win	Win	-	-	-	-	-	Win	Win	Win
<i>Plant ON/OFF</i>	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
<i>Lighting (%)</i>	100	100	100	100	90	90	75	90	90	100	100	100
<i>People (%)</i>	100	100	100	100	90	90	90	90	90	100	100	100
<i>Machines (%)</i>	100	100	100	100	100	100	100	100	100	100	100	100

	Annual building energy (GJ)	Annual plant energy (GJ)	Annual cost (pounds)
Heating	411.62	588.02	9,799
HWS	13.1	18.71	312
Pumps		18.78	1,409
Fans		0	0
Lighting	185.57	185.57	13,918
		<b>Total cost</b>	<b>25,437</b>

*Energy (GJ)*

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
<i>Lighting</i>	15.4644	15.4644	15.4644	15.4644	13.9179	13.9179	11.5983	13.9179	13.9179	15.4644	15.4644	15.4644
<i>Fans</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pumps</i>	2.6833	2.6833	2.6833	2.6833	0	0	0	0	0	2.6833	2.6833	2.6833
<i>HWS</i>	1.6269	1.6269	1.6269	1.6269	1.4642	1.4642	1.4642	1.4642	1.4642	1.6269	1.6269	1.6269
<i>Heating</i>	111.5555	102.6398	82.3561	52.1119	0	0	0	0	0	52.6236	82.7956	103.9413