






Eternal Energy Systems - Performance Data File


Canterbury - Kent Thermomax DF100 20 Tube 2.04m Installed February 03-0207 Pitch Roof 35 deg S @180 3-Feb-07		date of reading	31-Dec-07			
		total pump hours	1621			
		total kilowatt	2234			
		total operating days	331	-39116	-39116	-39116
		avg. pump hrs/day	4.90	0.00	0.00	0.00
		kwh per op. hour	1.38	#DIV/0!	#DIV/0!	#DIV/0!
		Avg Kw per day	6.75	0.00	0.00	0.00
		cum.kw per day				


Blackheath Pitch Roof @ 30 deg - S @ 180 Thermomax DF100 20 tube - 2.04m Installed Feb 07-0207 7-Feb-07		date of reading	31-Dec-07	13-Feb-09	2-Apr-09	
		total pump hours	1183	2462	2746	
		total kilowatt	1979	4108	4624	
		total operating days	327	737	785	#VALUE!
		avg. pump hrs/day	3.62	3.34	3.50	#VALUE!
		kwh per op. hour	1.67	1.67	1.68	#DIV/0!
		Avg Kw per day	6.05	5.57	5.89	#VALUE!
		cum.kw per day				


<p>Teynham Flat 3 Thermomax DF100 20 tube -2.04m Installed February 20-02- 07 Pitch 30 deg S @ 180</p> <p style="text-align: right;">20-Feb-07</p>		date of reading	31-Dec-07			
		total pump hours	2425			
		total kilowatt	10774			
		total operating days	314	#VALUE!	#VALUE!	#VALUE!
		avg. pump hrs/day	7.72	#VALUE!	#VALUE!	#VALUE!
		kwh per op. hour	4.44	#DIV/0!	#DIV/0!	#DIV/0!
		Avg Kw per day	34.31	#VALUE!	#VALUE!	#VALUE!
		cum.kw per day				


<p>Teynham - Kent Flat 4 Thermomax DF100 20 tube -2.04m Installed February 20-02- 07 Pitch 30 deg S @ 180</p> <p style="text-align: right;">20-Feb-07</p>		date of reading	31-Dec-07	11-Apr-08	29-Jun-09	
		total pump hours	1697	2154	2400	
		total kilowatt	1226	2306	3760	
		total operating days	314	416	860	#REF!
		avg. pump hrs/day	5.40	5.18	2.79	#REF!
		kwh per op. hour	0.72	1.07	1.57	#DIV/0!
		Avg Kw per day	3.90	5.54	4.37	#REF!
		cum.kw per day				


<p>Tonbridge - kent Thermomax DF100 - 20 tube -2.04 Installed March 01-03-07 Pitch Roof @ 40 deg S @ 180</p> <p style="text-align: right;">01/03/2007</p> <p>system reset after refill 21/01/08</p>	 <p style="text-align: center;">21-Jan-08</p>	date of reading	31-Dec-07	16-Feb-09		
		total pump hours	1299	1909		
		total kilowatt	3438	2278		
		total operating days	305	392	#VALUE!	#VALUE!
		avg. pump hrs/day	4.26	4.87	#VALUE!	#VALUE!
		kwh per op. hour	2.65	1.19	#DIV/0!	#DIV/0!
		Avg Kw per day	11.27	5.81	#VALUE!	#VALUE!
		cum.kw per day				


<p>Hythe - Kent Themomax DF100 - 20 tube - 2.04 Installed March 09-03-07 Pitch 30 deg S @ 165</p> <p style="text-align: right;">09/03/2007</p>		date of reading	31-Dec-07	8-Oct-08		
		total pump hours	1544	2907	0	0
		total kilowatt	2496	5201	0	0
		total operating days	297	579	#VALUE!	#VALUE!
		avg. pump hrs/day	5.20	5.02	#VALUE!	#VALUE!
		kwh per op. hour	1.62	1.79	#DIV/0!	#DIV/0!
		Avg Kw per day	8.40	8.98	#VALUE!	#VALUE!
		cum.kw per day				


<p>Whitstable - Kent Thermomax Df100 30 tube - 3.06 Installed April 12-04-07 Pitch 35 SSE @ 165</p> <p style="text-align: right;">12/04/2007</p> <p>replace defect tube 30/04/09</p>		date of reading	31-Dec-07	29-Jun-08	30-Apr-09	
		total pump hours	559	862	1077	
		total kilowatt	1176	1856	2517	
		total operating days	263	444	749	#VALUE!
		avg. pump hrs/day	2.13	1.94	1.44	#VALUE!
		kwh per op. hour	2.10	2.15	2.34	#VALUE!
		Avg Kw per day	4.47	4.18	3.36	#VALUE!
		cum.kw per day				


<p>Canterbury Kent Thermomax HP200 - 20 tube -2.04 Installed April 01-04-07 Pitch Roof @ 40 deg S @ 180</p> <p style="text-align: right;">01/04/2007</p>		date of reading	31-Dec-07	29-Jun-08		
		total pump hours	792	1636	0	0
		total kilowatt	1157	2456	0	0
		total operating days	274	455	#VALUE!	#VALUE!
		avg. pump hrs/day	2.89	3.60	#VALUE!	#VALUE!
		kwh per op. hour	1.46	1.50	#DIV/0!	#DIV/0!
		Avg Kw per day	4.22	5.40	#VALUE!	#VALUE!
		cum.kw per day				


<p>Dartford - Kent Thermomax DF100 30 tube 3.06 Installed May 19-05-07 Pre Heat cylinder Pitch Roof @45 deg SSW @ 198</p> <p style="text-align: right;">19-May-07</p> <p>add twin coil reset</p>	 <p style="text-align: center;">29-Jul-07 1-Jun-08</p>	date of reading	7-Jul-07	31-Dec-07	29-Jun-08	13-Oct-08
		total pump hours	595	936	1777	993
		total kilowatt	691	2284	3960	1434
		total operating days	49	226	407	134
		avg. pump hrs/day	12.14	4.14	4.37	7.41
		kwh per op. hour	1.16	2.44	2.23	1.44
		Avg Kw per day	14.10	10.11	9.73	10.70
		cum.kw per day				


Canterbury - Kent Thermomax DF100 30 Tube -3.06 Installed June 09-06-07 - pre heat cylinder South @ 180 Flat Roof tubes angled to 30 deg 9-Jun-07		date of reading	31-Dec-07	29-Jun-08	9-Oct-08	
		total pump hours	936	1777	2630	0
		total kilowatt	2284	3204	6601	0
		total operating days	205	386	488	#VALUE!
		avg. pump hrs/day	4.57	4.60	5.39	#VALUE!
		kwh per op. hour	2.44	1.80	2.51	#DIV/0!
		Avg Kw per day	11.14	8.30	13.53	#VALUE!
		cum.kw per day				


Whitstable - Kent Thermomax DF100 30 Tube - 3.06 Installed June 16-06-07 - thro thermal store - underfloor Pitch Roof 35 deg S @ 180 16-Jun-07		date of reading	3-May-08	1-Aug-08	21-Apr-09	
		total pump hours	1082	1446	2100	
		total kilowatt	2134	3968	4862	
		total operating days	322	412	675	#VALUE!
		avg. pump hrs/day	3.36	3.51	3.11	#VALUE!
		kwh per op. hour	1.97	2.74	2.32	#VALUE!
		Avg Kw per day	6.63	9.63	7.20	#VALUE!
		cum.kw per day				


Whitstable - Kent Thermomax HP 200 30 tube Adopted 13-06-07 WestNorthWest pitch at 38deg 13-Jun-07		date of reading	31-Dec-07			
		total pump hours	1035	0	0	0
		total kilowatt	885	0	0	0
		total operating days	201	#VALUE!	#VALUE!	#VALUE!
		avg. pump hrs/day	5.15	#VALUE!	#VALUE!	#VALUE!
		kwh per op. hour	0.86	#DIV/0!	#DIV/0!	#DIV/0!
		Avg Kw per day	4.40	#VALUE!	#VALUE!	#VALUE!
		cum.kw per day				


Meopham Kent Thermomax HP200-30 tube installed 4/10/07 South@180-roof 45deg 4-Oct-07		date of reading	8-Nov-07	15-May-08	9-Oct-08	16-Feb-09
		total pump hours	221	1144	2474	2719
		total kilowatt	445	2379	7640	8418
		total operating days	35	224	371	501
		avg. pump hrs/day	6.31	5.11	6.67	5.43
		kwh per op. hour	2.01	2.08	3.09	3.10
		Avg Kw per day	12.71	10.62	20.59	16.80
		cum.kw per day				


Wilmington Thermomax DF100 - 20 tube installed 7/11/07 SW @230 pitch 40deg 7-Nov-07		date of reading	1-May-08	13-Oct-08		
		total pump hours	357	998	0	0
		total kilowatt	322	1027	0	0
		total operating days	176	341	#VALUE!	#VALUE!
		avg. pump hrs/day	2.03	2.93	#VALUE!	#VALUE!
		kwh per op. hour	0.90	1.03	#DIV/0!	#DIV/0!
		Avg Kw per day	1.83	3.01	#VALUE!	#VALUE!
		cum.kw per day				

Hartley-Longfield Thermomax HP 200 - 20 tube installed 19/11/07 South @ 180 pitch 35deg 13-Nov-07		date of reading	24-Jun-08	16-Feb-09	28-Jun-09	1-Oct-09
		total pump hours	847	1441	1928	2254
		total kilowatt	1731	3320	4268	5020
		total operating days	224	461	593	688
		avg. pump hrs/day	3.78	3.13	3.25	3.28
		kwh per op. hour	2.04	2.30	2.21	2.23
		Avg Kw per day	7.73	7.20	7.20	7.30
		cum.kw per day				

Woodchurch Sonnekraft VTC 20 tube(Chelmer) installed 10/12/07 South @ 180 pitch 45deg 10-Dec-07		date of reading	31-Dec-07	15-Feb-08		
		total pump hours	50	114	0	0
		total kilowatt	38	74	0	0
		total operating days	21	67	-39426	-39426
		avg. pump hrs/day	2.38	1.70	0.00	0.00
		kwh per op. hour	0.76	0.65	#DIV/0!	#DIV/0!
		Avg Kw per day	1.81	1.10	0.00	0.00
		cum.kw per day				

Herne Bay Thermomax DF100 - 20 tube installed 4th December 07 South @ 180 pitch 4-Dec-07		date of reading	9-Oct-08	16-Feb-09		
		total pump hours	761	1937	0	0
		total kilowatt	1689	2988	0	0
		total operating days	310	440	#VALUE!	#VALUE!
		avg. pump hrs/day	2.45	4.40	#VALUE!	#VALUE!
		kwh per op. hour	2.22	1.54	#DIV/0!	#DIV/0!
		Avg Kw per day	5.45	6.79	#VALUE!	#VALUE!
		cum.kw per day				

Ulcombe Genersys 1000/10 - 3 panel 6m.sq roof integrated - finish 7th Dec South@180 - pitch 38deg 7-Dec-07		date of reading	30-Jan-08	5-Mar-08		
		total pump hours	40	162	0	0
		total kilowatt	52	216	0	0
		total operating days	54	89	#VALUE!	#VALUE!
		avg. pump hrs/day	0.74	1.82	#VALUE!	#VALUE!
		kwh per op. hour	1.30	1.33	#DIV/0!	#DIV/0!
		Avg Kw per day	0.96	2.43	#VALUE!	#VALUE!
		cum.kw per day				

Bekesbourne Thermomax DF100 20 tube façade mounted -elec boiler south @ 180 tube to 60deg Solar install 12th December 12-Dec-07 system reset September 08		date of reading	13-Feb-08	15-Jul-08	30-Dec-08	21-Jul-09
		total pump hours	120	538	436	1414
		total kilowatt	99	467	716	2138
		total operating days	63	216	384	329
		avg. pump hrs/day	1.90	2.49	1.14	4.30
		kwh per op. hour	0.83	0.87	1.64	1.51
		Avg Kw per day	1.57	2.16	1.86	6.50
		cum.kw per day				

26-Aug-08