Energy Facts - Drop In Dry Heat Bain Marie

ASSUMPTIONS : (Display Unit on for 8 hours per 24, Display Unit Used 7 days Per Week, Operating temp. 85 deg C. Display Unit is in standby, with lights off for 16 hours per 24, Average room temp. 18 deg C 50 % RH, Electric Cost - 0.18p/kWh - Average Business Rate - June '23

Standard Type Dry Heat Bain Marie (Lights On Full Setting)

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM2 Designline / KHBM2 Kubus	Measured average w per hour (Using Qualistar CA 8335)	781.91	0.78191	6.25528	2283.1772
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				2283.18
	Electric cost per unit - 10.630 p/kWh				**£410.97**
	CO2 emissions in tons/year				1.2

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM3 Designline / KHBM3 Kubus	Measured average w per hour (Using Qualistar CA 8335)	1172.86	1.17286	9.38288	3424.7512
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				3424.75
	Electric cost per unit - 10.630 p/kWh				**£616.46**
	CO2 emissions in tons/year				1.8

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM4 Designline / KHBM4 Kubus	Measured average w per hour (Using Qualistar CA 8335)	1363.82	1.36382	10.91056	3982.3544
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				3982.35
	Electric cost per unit - 10.630 p/kWh				**£716.82**
	CO2 emissions in tons/year				2.2

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM5 Designline / KHBM5 Kubus	Measured average w per hour (Using Qualistar CA 8335)	1954.78	1.95478	15.63824	5707.9576
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				5707.96
	Electric cost per unit - 10.630 p/kWh				**£1,027.43**
	CO2 emissions in tons/year				3.1

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM6 Designline / KHBM6 Kubus	Measured average w per hour (Using Qualistar CA 8335)	2345.73	2.34573	18.76584	6849.5316
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				6849.53
	Electric cost per unit - 10.630 p/kWh				**£1,232.92**
	CO2 emissions in tons/year				3.7

Standard Type Dry Heat Bain Marie (Lights On Half Setting)

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM2 Designline / KHBM2 Kubus	Measured average w per hour (Using Qualistar CA 8335)	589.43	0.58943	4.71544	1721.1356
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Half Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				1721.14
	Electric cost per unit - 10.630 p/kWh				**£309.80**
	CO2 emissions in tons/year				0.9
	using quartz halogen lamps on half setting - cost saving / year (£)				**£101.17**
	using quartz halogen lamps on half setting - cost saving / year (%)				**24.62%**
	CO2 emissions saving / year (tons)				**0.30**

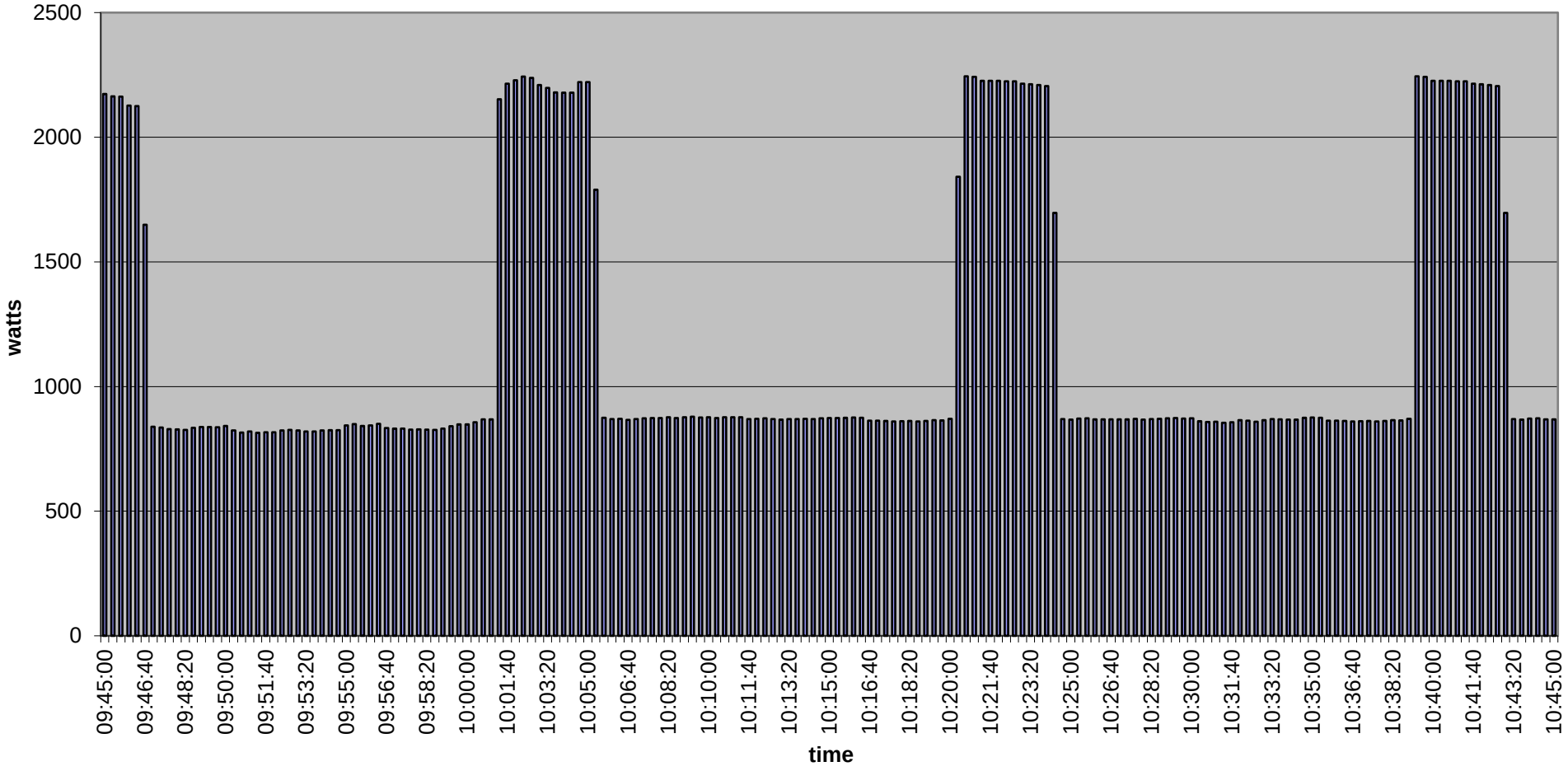
Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM3 Designline / KHBM3 Kubus	Measured average w per hour (Using Qualistar CA 8335)	884.15	0.88415	7.0732	2581.718
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				2581.72
	Electric cost per unit - 10.630 p/kWh				**£464.71**
	CO2 emissions in tons/year				1.4
	using quartz halogen lamps on half setting - cost saving / year (£)				**£151.75**
	using quartz halogen lamps on half setting - cost saving / year (%)				**24.62%**
	CO2 emissions saving / year (tons)				**0.46**

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM4 Designline / KHBM4 Kubus	Measured average w per hour (Using Qualistar CA 8335)	978.86	0.97886	7.83088	2858.2712
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				2858.27
	Electric cost per unit - 10.630 p/kWh				**£514.49**
	CO2 emissions in tons/year				1.5
	using quartz halogen lamps on half setting - cost saving / year (£)				**£202.33**
	using quartz halogen lamps on half setting - cost saving / year (%)				**28.23%**
	CO2 emissions saving / year (tons)				**0.61**

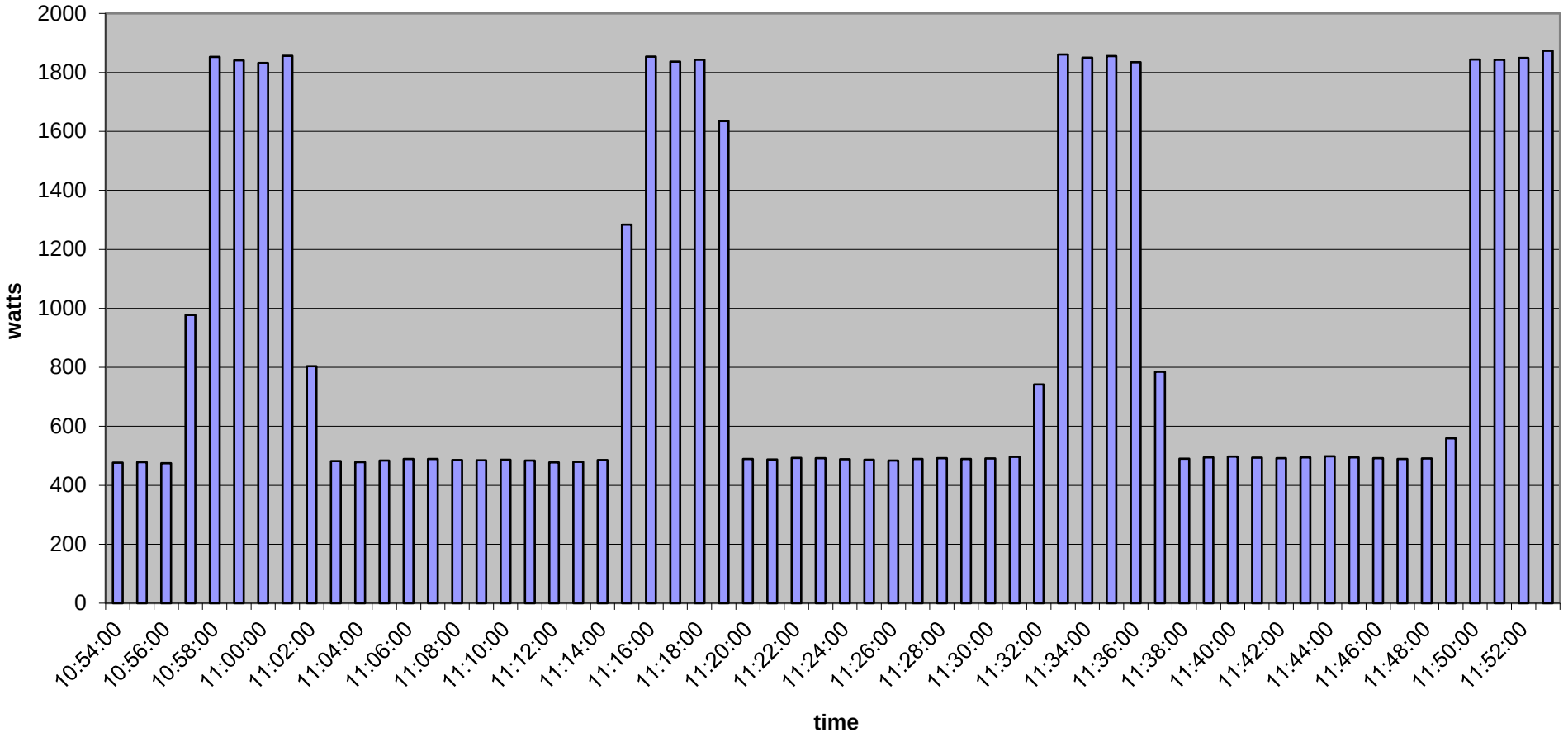
Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM5 Designline / KHBM5 Kubus	Measured average w per hour (Using Qualistar CA 8335)	1473.58	1.47358	11.78864	4302.8536
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				4302.85
	Electric cost per unit - 10.630 p/kWh				**£774.51**
	CO2 emissions in tons/year				2.3
	using quartz halogen lamps on half setting - cost saving / year (£)				**£252.92**
	using quartz halogen lamps on half setting - cost saving / year (%)				**24.62%**
	CO2 emissions saving / year (tons)				**0.76**

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
HBM6 Designline / KHBM6 Kubus	Measured average w per hour (Using Qualistar CA 8335)	1768.29	1.76829	14.14632	5163.4068
	Test Conditions As Below :				
	Bain Marie Tank On (8 hrs in 24)				
	Quartz Halogen Lights On - Full Setting (8 hrs in 24)				
	Bain Marie Tank Off - Reached Temperature (8 hrs in 24)				
	Quartz Halogen Lights Off - In Standby (16 hours in 24)				
	kwh/year				5163.41
	Electric cost per unit - 10.630 p/kWh				**£929.41**
	CO2 emissions in tons/year				2.8
	using quartz halogen lamps on half setting - cost saving / year (£)				**£303.50**
	using quartz halogen lamps on half setting - cost saving / year (%)				**24.62%**
	CO2 emissions saving / year (tons)				**0.91**

Energy Use. CED Designline Model HBM3, Dry Heat Bain Marie (rod element type). .
Assumptions: 1 hour measured, Quartz Halogen Gantry Lamps Full On**.**
Test Equipment - Qualistar CA 8335 - average 1173 w.



Energy Use. CED Designline Model HBM3, 3/1 Gn Dry Heat Bain Marie (rod element type).
Assumptions : 1 hour measured, Quartz Halogen Gantry Lamps Half On**.**
Test Equipment - Qualistar CA 8335 (av. 884.15 w)



Energy Use. CED Designline Model HBM5, Dry Heat Bain Marie.
Assumptions: 1 hour measured, Quartz Halogen Gantry Lamps Full On.
Test Equipment - Qualistar CA 8335 - average 1955 w.