Energy Facts - Plain Top Hot Cupboards

ASSUMPTIONS : (Hot cupboard switched on for 8 hours per 24 - Doors Closed, Hot cupboard Used 7 days Per Week, Operating temp. 85 deg C. Hot cupboard is in standby for 16 hours per 24, Doors Closed , Electric Cost - 0.18p/kWh - Average Business Rate - June 2023

Standard Type Plain Top Hot Cupboard Unit (Std. 85 deg C. Setting, Doors Closed)

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL12HC Designline **(1.2 m Long)**	Measured average w per hour (Using Qualistar CA 8335)	731.43	0.73143	5.85144	2135.776
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				
1.5 Kw element					
				kwh/year	2135.78
				Electric cost per unit - 0.18p/kWh	**£384.44**
				CO2 emissions in tons/year	1.2

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL13HC Designline **(1.3 m Long)**	Measured average w per hour (Using Qualistar CA 8335)	821.34	0.82134	6.57072	2398.313
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				
1.5 Kw element					
				kwh/year	2398.31
				Electric cost per unit - 0.18p/kWh	**£431.70**
				CO2 emissions in tons/year	1.3

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL15HC Designline **(1.5 m Long)**	Measured average w per hour (Using Qualistar CA 8335)	1139.81	1.13981	9.11848	3328.245
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				
2.0 Kw element					
				kwh/year	3328.25
				Electric cost per unit - 0.18p/kWh	**£599.08**
				CO2 emissions in tons/year	1.8

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL16HC Designline **(1.6 m Long)**	Measured average w per hour (Using Qualistar CA 8335)	1095.11	1.09511	8.76088	3197.721
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				
2.0 Kw element					
				kwh/year	3197.72
				Electric cost per unit - 0.18p/kWh	**£575.59**
				CO2 emissions in tons/year	1.7

Standard Type Plain Top Hot Cupboard Unit (Reduced 75 deg C. Setting, Doors Closed)

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL12HC Designline **(1.2 m Long)**	Measured average w per hour (Using Qualistar CA 8335)	672.28	0.67228	5.37824	1963.0576
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				
1.5 Kw element					
				kwh/year	1963.06
				Electric cost per unit - 0.18p/kWh	**£353.35**
				CO2 emissions in tons/year	1.1
				Hotcupboard on 75 deg C, doors closed - cost saving / year (£)	**£31.09**
				Hotcupboard on 75 deg C, doors closed - cost saving / year (%)	**8.09%**
				CO2 emissions saving / year (tons)	**0.09**

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL13HC Designline **(1.3 m Long)**	Measured average w per hour (Using Qualistar CA 8335)	742.84	0.74284	5.94272	2169.0928
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				
1.5 Kw element					
				kwh/year	2169.09
				Electric cost per unit - 0.18p/kWh	**£390.44**
				CO2 emissions in tons/year	1.2
				Hotcupboard on 75 deg C, doors closed - cost saving / year (£)	**£41.26**
				Hotcupboard on 75 deg C, doors closed - cost saving / year (%)	**9.56%**
				CO2 emissions saving / year (tons)	**0.12**

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL15HC Designline **(1.5 m Long)**	Measured average w per hour (Using Qualistar CA 8335)	1047.64	1.04764	8.38112	3059.1088
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				
2.0 Kw element					
				kwh/year	3059.11
				Electric cost per unit - 0.18p/kWh	**£550.64**
				CO2 emissions in tons/year	1.7
				Hotcupboard on 75 deg C, doors closed - cost saving / year (£)	**£48.44**
				Hotcupboard on 75 deg C, doors closed - cost saving / year (%)	**8.09%**
				CO2 emissions saving / year (tons)	**0.15**

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL16HC Designline **(1.6 m Long)**	Measured average w per hour (Using Qualistar CA 8335)	990.45	0.99045	7.9236	2892.114
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				
2.0 Kw element					
				kwh/year	2892.11
				Electric cost per unit - 0.18p/kWh	**£520.58**
				CO2 emissions in tons/year	1.6
				Hotcupboard on 75 deg C, doors closed - cost saving / year (£)	**£55.01**
				Hotcupboard on 75 deg C, doors closed - cost saving / year (%)	**9.56%**
				CO2 emissions saving / year (tons)	**0.17**

Energy Facts - Designline Plain Top Hotcupboards - Continued

ASSUMPTIONS : (Hot cupboard switched on for 8 hours per 24 - Doors Closed, Hot cupboard Used 7 days Per Week, Operating temp. 85 deg C.
Hot cupboard is in standby for 16 hours per 24, Doors Closed , Electric Cost - 0.18p/kWh - Average Business Rate - June 2023

Standard Type Plain Top Hot Cupboard Unit (Std. 85 deg C. Setting, Doors Closed)

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL18HC Designline **(1.8 m Long)** 2.5 Kw element	Measured average w per hour (Using Qualistar CA 8335)	1368.89	1.36889	10.95112	3997.159
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				

kwh/year	3997.16
Electric cost per unit - 0.18p/kWh	**£719.49**
CO2 emissions in tons/year	2.2

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL21HC Designline **(2.1 m Long)** 3.0 Kw element	Measured average w per hour (Using Qualistar CA 8335)	1642.67	1.64267	13.14136	4796.596
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				

kwh/year	4796.60
Electric cost per unit - 0.18p/kWh	**£863.39**
CO2 emissions in tons/year	2.6

Standard Type Plain Top Hot Cupboard Unit (Reduced 75 deg C. Setting, Doors Closed)

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL18HC Designline **(1.8 m Long)** 2.5 Kw element	Measured average w per hour (Using Qualistar CA 8335)	1238.07	1.23807	9.90456	3615.1644
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				

kwh/year	3615.16
Electric cost per unit - 0.18p/kWh	**£650.73**
CO2 emissions in tons/year	2.0

Hotcupboard on 75 deg C, doors closed - cost saving / year (£)	**£68.76**
Hotcupboard on 75 deg C, doors closed - cost saving / year (%)	**9.56%**
CO2 emissions saving / year (tons)	**0.21**

Model	Component	Av.Load (W)	kW/hour	kWh/day	kWh/year
DL21HC Designline **(2.1 m Long)** 3.0 Kw element	Measured average w per hour (Using Qualistar CA 8335)	1485.68	1.48568	11.88544	4338.1856
	Test Conditions As Below :				
	Hot Cupboard On (8 hrs in 24)				
	Hot Cupboard Off - Reached Temperature (8 hrs in 24)				
	Hotcupboard Off - Standby (16 hrs in 24)				
	Hotcupboard Doors Closed (8 hrs in 24)				

kwh/year	4338.19
Electric cost per unit - 0.18p/kWh	**£780.87**
CO2 emissions in tons/year	2.3

Hotcupboard on 75 deg C, doors closed - cost saving / year (£)	**£82.51**
Hotcupboard on 75 deg C, doors closed - cost saving / year (%)	**9.56%**
CO2 emissions saving / year (tons)	**0.25**

Energy Use. CED Model HC 2100 Plain Top Hotcupboard.
Assumptions : 1 hour measured, Test Equipment - Qualistar CA 8335
Average 1642 watts