







DAILY ELECTRICAL CONSUMPTION AND SAVINGS TABLE

Family Size		Couple 		Family +1 		Family +2 		Family +3 	
Cylinder Size (Element Size)		150 ℓ (3 kW)		150 ℓ (3 kW) 200 ℓ (4kW)		200 ℓ (4 kW)		200 ℓ (4 kW)	
Daily Consumption	Litres	Low 150	High 180	Low 225	High 250	Low 290	High 320	Low 340	High 365
Daily Element Consumption to Heat the Water	kWatt Hours	7.83	9.40	11.75	13.05	15.14	16.70	17.75	19.05
Hot Water Cylinder Thermal Losses in kW/24 Hours	kWatt Hours	2.55	2.55	2.55	2.55	2.80	2.80	2.80	2.80
Total Consumption in Kilowatts to make Hot Water per Day	kWatt Hours	10.38	11.95	14.30	15.60	17.94	19.50	20.55	21.85

Savings Made by Installing a 4.0 kW Heat Pump with a Timer

Daily Heat Pump Consumption to make Hot Water	kWatt Hours	2.60	2.99	3.58	3.91	4.49	4.88	5.14	5.47
Daily Savings using Heat Pump Technology	kWatt Hours	7.78	8.96	10.72	11.69	13.45	14.62	15.41	16.38
Avg Monthly Saving @ R1.3465/kWh	2012	R 304.92		R 456.40		R 571.67		R 647.43	
Avg Monthly Saving @ R1.5619/kWh	2013	R 395.64		R 529.41		R 663.12		R 751.00	
Avg Monthly Saving @ R1.8119/kWh	2014	R 458.76		R 614.15		R 769.26		R 871.20	
Avg Monthly Saving @ R2.102/kWh	2015	R 532.21		R 712.48		R 892.42		R 1010.69	

Assumed: 1.) Cold water supply @ 15°C 2.) Hot water heated to 60°C 3.) Ambient air temperature @ 20°C