

Energy Comparison between Vorde VD6 PRO 5.5 KW model and 3L 3kW water heater

The following document highlights the statistical data in a tabular and graphical format with respect to the following parameters:

1. Power Draw (kW).
2. Power Consumption (kWh).
3. Flow rate (LPM).
4. Outlet Temperature (°C)

The Data has been collected, calculated and processed based on the following constant parameters:

1. Supply pressure of 1.5 to 2 Bar at the inlet of the appliance.
2. Identical Divertor used.
3. Identical flow sensor used.
4. Inlet temperature of 25 °C.
5. Fixed Outlet temperature of 45 °C.

General notes:

1. Each test has been repeated 5 times.
2. Average values have been considered and rounded for ease of presentation.
3. All measuring equipments have been calibrated before each test using reference values.
4. For monthly energy consumption 4 uses a day are considered.
(Energy consumed per use (kWh) x 4 (No. of days) x 30(days in a month))

Report Summary

Use Case	Flow Rate (LPM)	Heater Type	Heater ON Time (min)	Average Power Draw (kW)	Energy Consumed (kWh)	Additional Energy vs Tankless (%)	Monthly Energy Consumption (kWh)
Shower	2	3 L – 3 kW Instant	15.6	3	0.78	67%	93.6
Shower	2	Vorde VD6 PRO 5.5 kW Tankless	10	2.8	0.47	0%	56.4
Shower	4	3 L – 3 kW Instant	Not feasible @ 45°C				N/A
Shower	4	Vorde VD6 PRO 5.5 kW Tankless	10	5.5	0.92	0%	110.4
Bucket (20 L)	3	3 L – 3 kW Instant	10.2	3	0.5	9%	60
Bucket (20 L)	4	Vorde VD6 PRO 5.5 kW Tankless	5	5.5	0.46	0%	55.2

Graphical Data for Shower Scenario:

