

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.

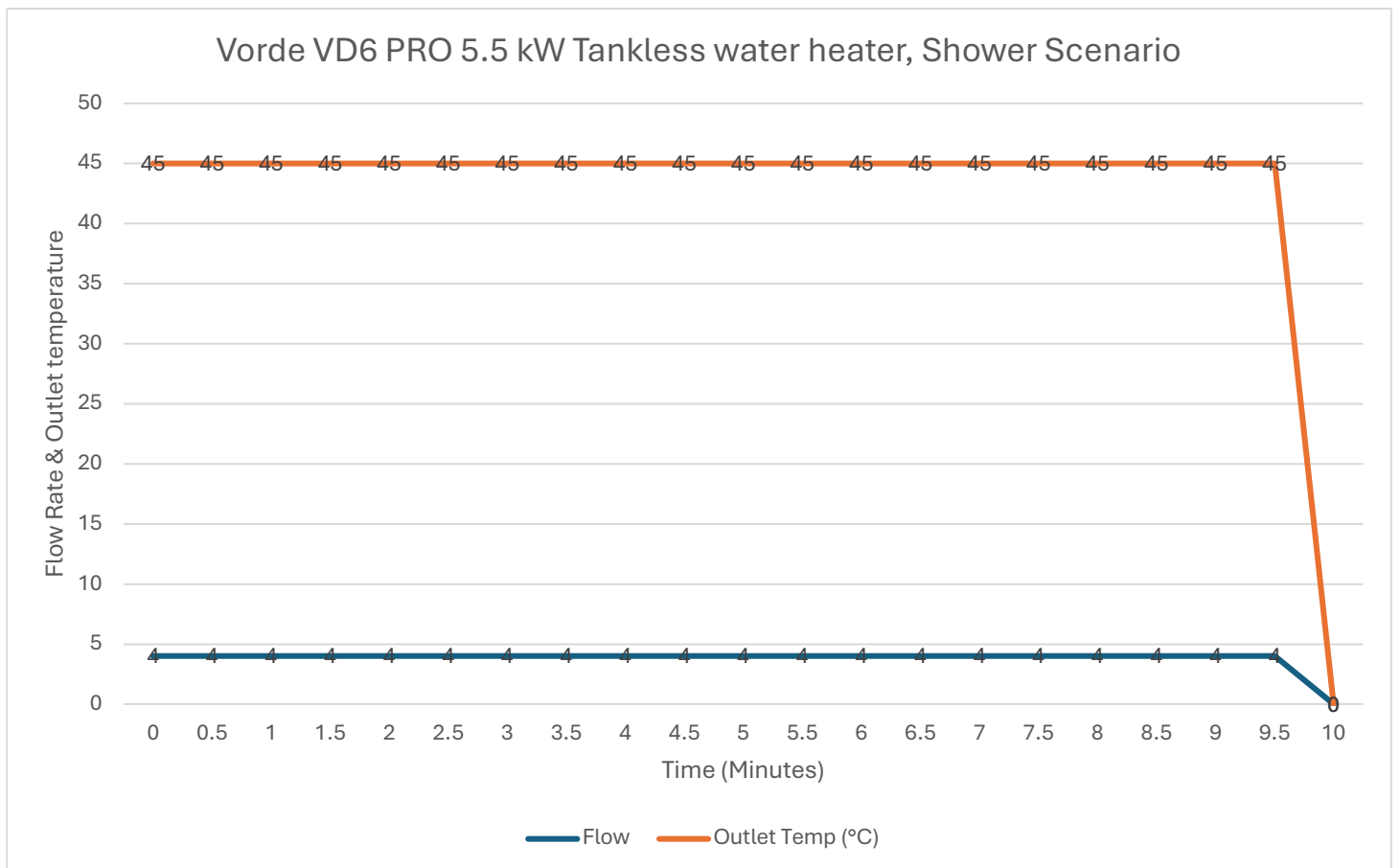
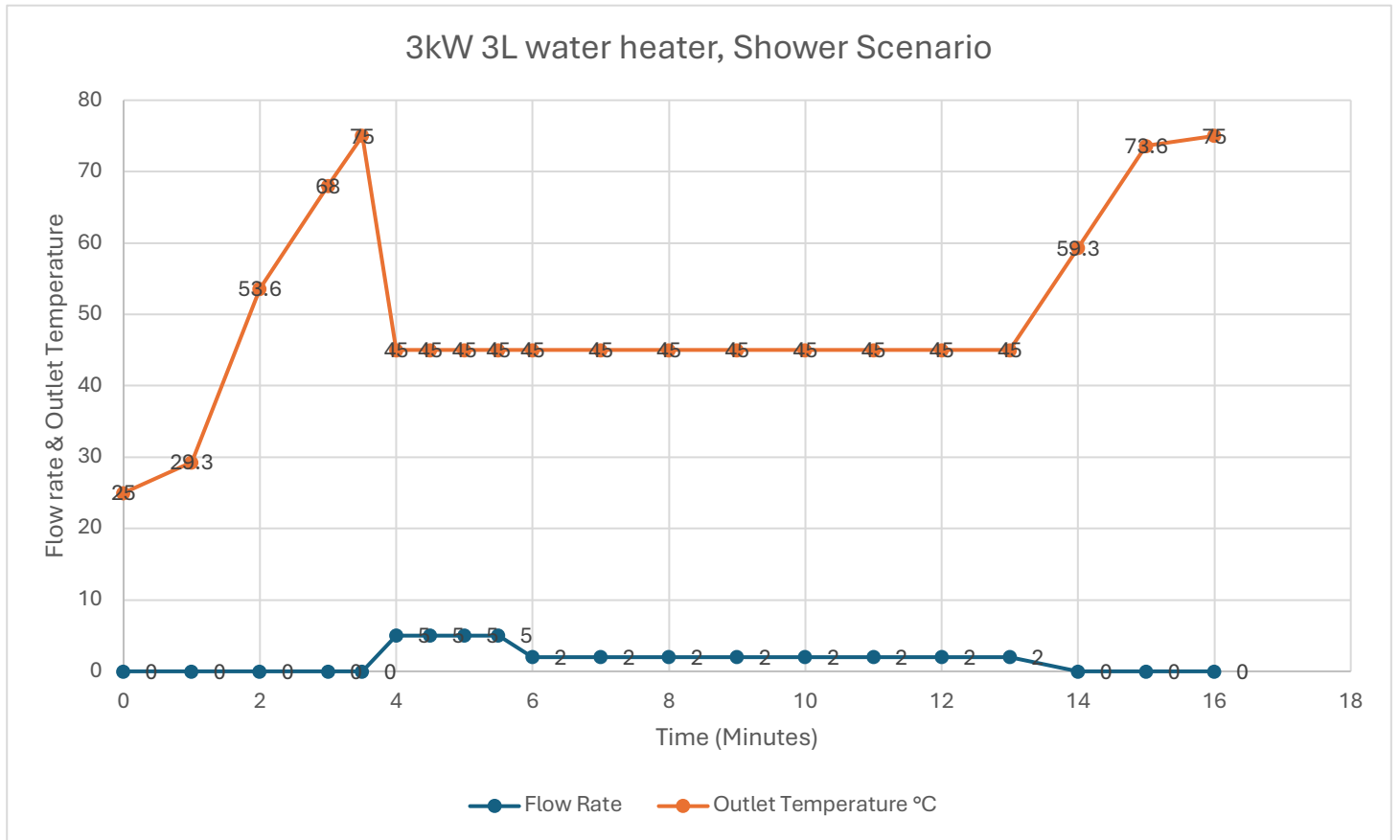
General notes:

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))

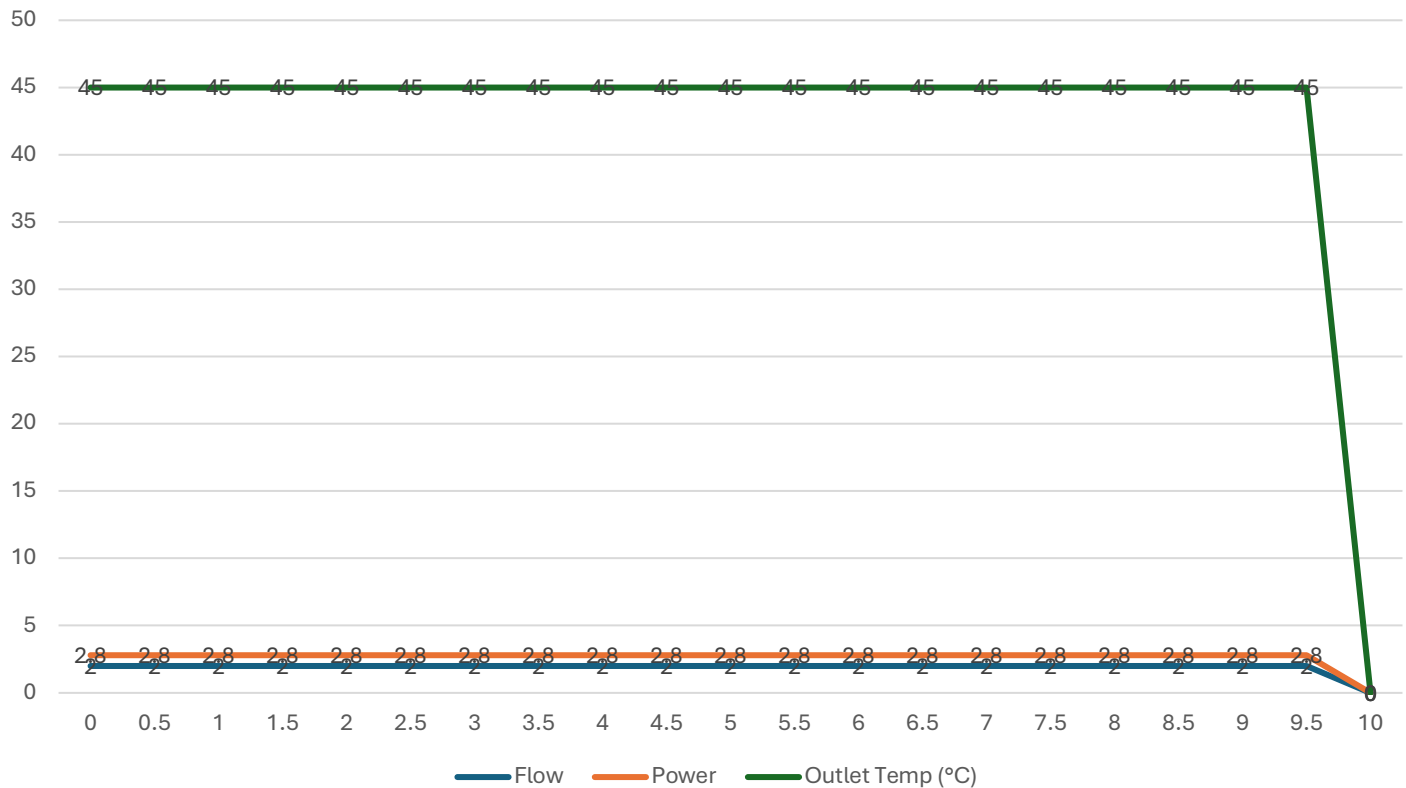
Report Summary

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:



Vorde VD6 PRO 5.5 kW tankless water heater in Identical Conditions as 3L 3kW instant water heater - shower scenario

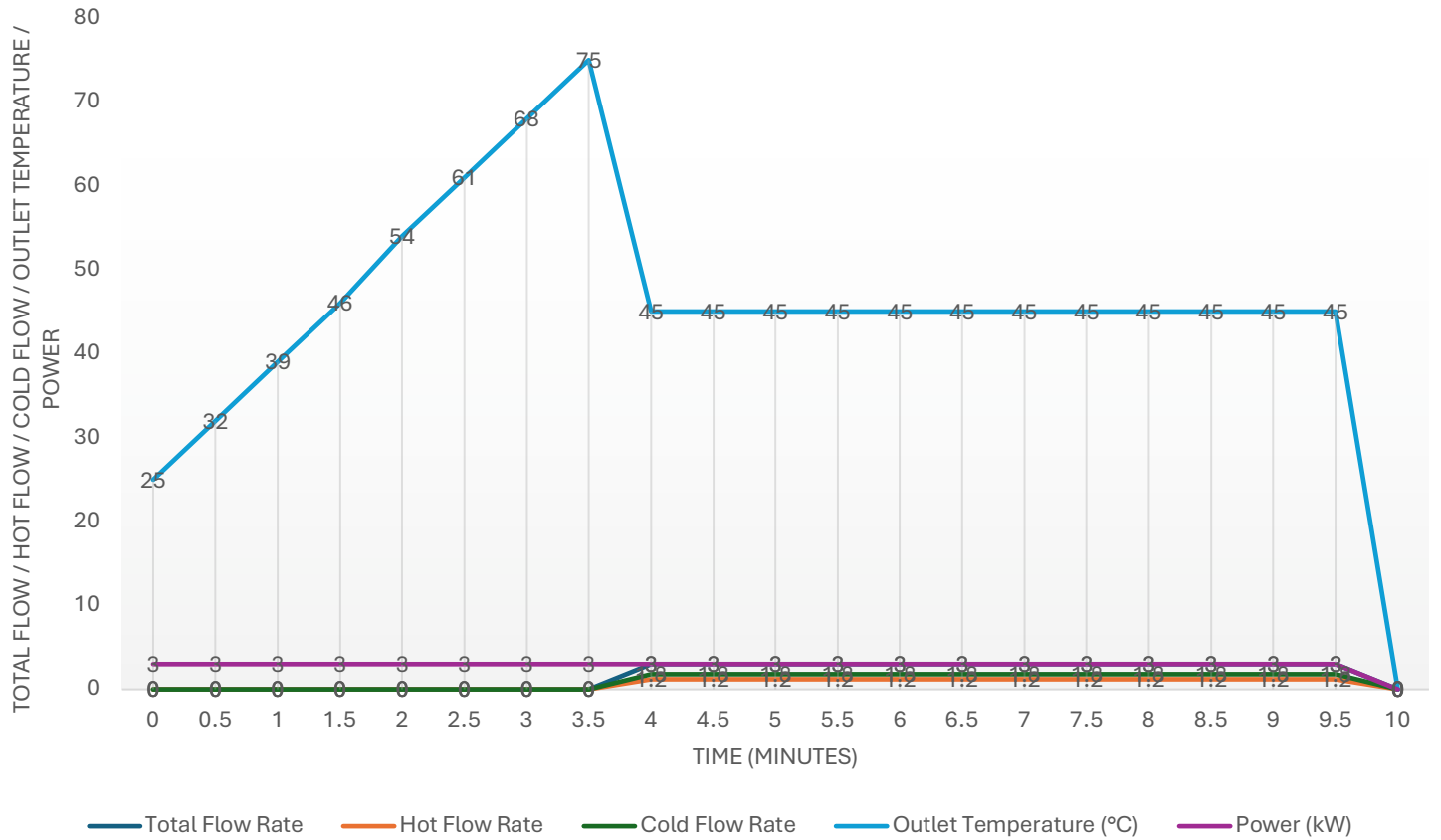


Analysis of Graphical Data for shower Scenario:

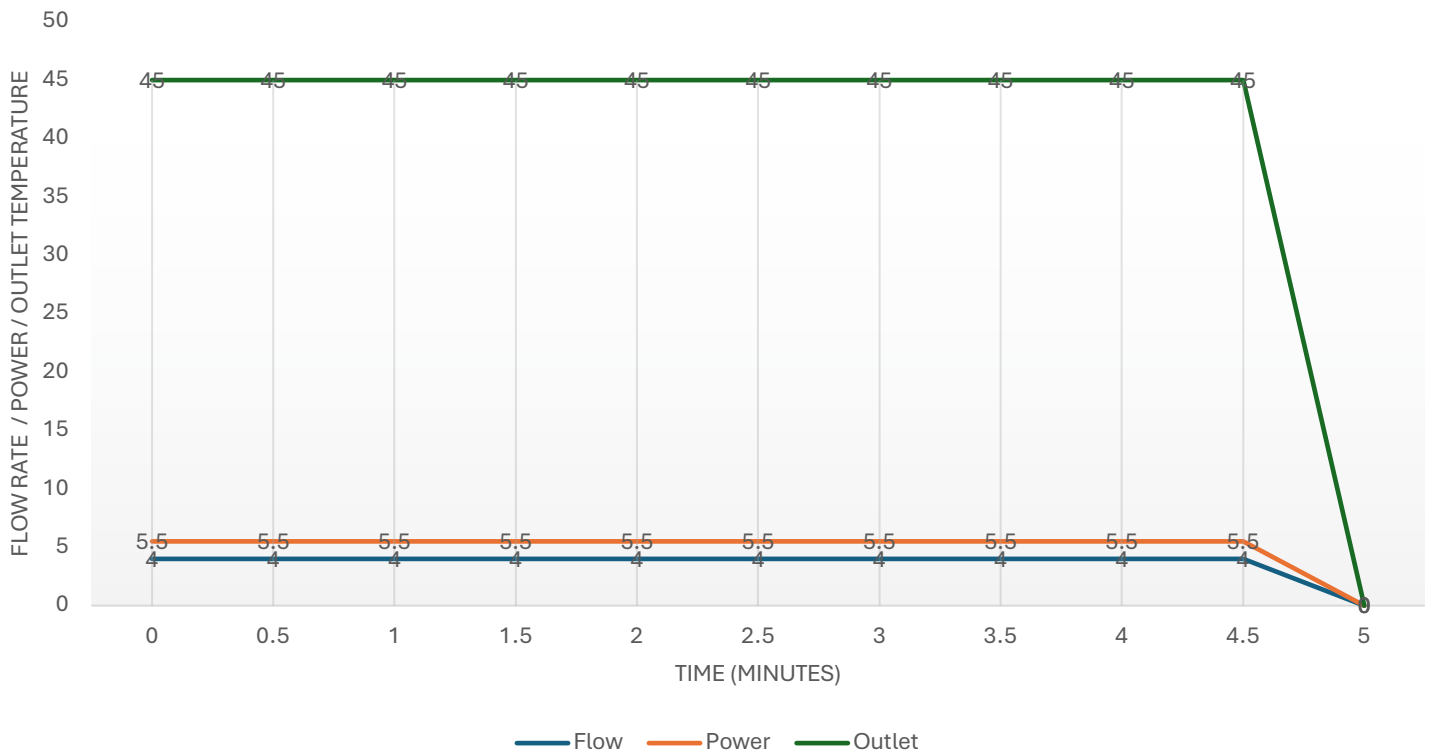
1. No pre-heat / wait times with tankless technology. Quicker showering times, more convenience to the user, and lesser power draw time.
2. To achieve a CONSTANT outlet temperature with 3L 3kW water heaters end-user intervention is greater, and hence in actual real-time usage temperature fluctuation and hot/cold shocks are inevitable including the risk of scalding.
3. Vorde's VD6 Pro Model is able to provide CONSISTENT outlet temperatures at Double the flow rate(4 LPM vs 2 LPM), a flow rate at which 3L 3kW water heaters simply cannot achieve the same outlet temperatures, proving to not be fruitful to the end user.
4. 3L 3kW water heaters can consume 67% more electricity in comparison to Vorde's VD6 model when tested at identical flow rates for identical outlet temperatures.

20L Bucket Bath Scenario:

3L 3kW Water Heater - Bucket Bath Scenario



VD6 PRO 5.5 kW Tankless Water Heater Bucket Bath Scenario



Analysis of Graphical Data for 20L Bucket Bath Scenario:

1. Vorde's tankless water heaters have lower bucket fill times, which in turn translate to lower draw times, and greater end user convenience.
2. Vorde's tankless water heater consumes less energy compared to a 3L 3kW water heater to heat a 20L bucket.

OTHER KEY ADVANTAGES OF VORDE'S TANKLESS WATER HEATERS

1. No accidental ON time with tankless technology. This is a frequent occurrence in households with Storage type water heaters like the 3L 3kW model. The elimination of accidental ON time ensures the end user only pays for what they use.
2. Vorde's Tankless technology equipped with Patent AI sense ensures that heating elements are always disconnected from the MAIN power line, allowing for a robust safety mechanism, and no accidental energy consumption.
3. Vorde's AI Sense technology allows for system parameter adaptation according to weather conditions and subsequently inlet temperature, ensuring consistent desired outlet temperature and optimized energy consumption based on the season.
4. For High flow rate requirements, in line with current consumer trends to use rain showers, 3L 3kW water heaters are an incorrect fit and cannot suffice modern requirements. Vorde's tankless water heaters are able to achieve greater outlet temperatures at higher flow rates making it perfect for modern households, and as a replacement for existing traditional water heating technologies.

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