



VWART Calculation with Keep Warm

Test carried out by Enertek International for Low Temperature BESA Tests
 Manufacturer: Switch 2 Energy Ltd
 Model: T3 Eco HIU
 Serial number: S2HIU19000576
 Calculation performed by B Meekin of Enertek on: 04/08/2019

Primary Flow Temperature: 60°C
 DHW Setpoint: 50°C
 Space Heating Temperature: 45/35°C

Low Temperature VWART Calculations

	VWART (°C)	Volume (m3)
DHW	18	23.8
Standby	43	75.4
Space Heating	34	53.3

Period	VWART with keep warm active	
	VWART (°C)	% Time
No Heating	37	93%
Heating	35	7%
Overall	37	

Period	VWART with keep warm <u>NOT</u> active	
	VWART (°C)	% Time
No Heating	18	93%
Heating	34	7%
Overall	19	

		Test Results							
		Power [W]	Primary flow [m³/hr]	VWART [°C]	Energy Used [kWh]	Annual Operation [Hours]	Volume [m³]	Events [Per Year]	Average duration [Seconds]
1kW Space Heating	1d	1207	0.041	34	111	91.6	3.7	-	-
2kW Space Heating	1e	2260	0.076	34	864	382.2	29.0	-	-
4kW Space Heating	1f	4319	0.146	34	607	140.5	20.6	-	-
DHW Low Flow Rate	2b	12435	0.199	18	564	58.6	11.7	-	-
DHW Medium Flow Rate	2b	20772	0.344	18	237	14.3	4.9	-	-
DHW High Flow Rate	2b	26727	0.435	18	352	16.6	7.2	-	-
DHW Post Low Flow Rate	2b	-	0.000	17	-	-	0.0	10000	30
DHW Post Medium Flow Rate	2b	-	0.000	18	-	-	0.0	660	70
DHW Post High Flow Rate	2b	-	0.000	18	-	-	0.0	300	145
DHW Keep Warm Standby	4b	-	0.009	43	-	8056	75.4	-	-