



**Low Temperature VVWART Calculation for Greenstar HIU E+ with heat meter**  
 Primary flow temperature: 60°C; DHW set point: 50°C; Space heating temperatures: 45°C/35°C  
 Test carried out by Enertek International for HIGH Temperature BESA Tests  
 Manufacturer: Worcester Bosch; Model: Greenstar HIU E+ with heat meter; Serial number: 7733600136;  
 VVWART calculation prepared by Ian Williamson of Enertek International on 26 February 2020

	VVWART(°C)	Volume (m3)
DHW	23	33.5
Standby	51	108.4
Space Heating	36	52.2

  

Period	VVWART(°C)	% Time
No Heating	44	93%
Heating	38	7%
Overall	44	

DHW Draw test results		Post DHW Draw (60 seconds)	
Power (W)	Primary flow (ls)	VVWART (°C)	VVWART (°C)
Low	9533	0.061	22
Medium	16481	0.108	23
High	21159	0.142	25

  

Standby test results	
Primary flow (m <sup>3</sup> /hr)	VVWART (°C)
0.004000	51

Standby Volumes pa	
Hours	Volume pa (m <sup>3</sup> )
7,988	108.40

Space Heating test results		
Power (W)	Primary flow (m <sup>3</sup> /hr)	VVWART (°C)
1kWp	987	0.010
2kWp	1940	0.048
4kWp	3918	0.095

DHW Draw Volumes pa	
kWh pa	Volume pa (m <sup>3</sup> )
729	73.00
297	18.00
444	21.00

Standby Volumes pa	
Hours	Volume pa (m <sup>3</sup> )
7,988	108.40

Space Heating Volumes pa	
kWh pa	Volume pa (m <sup>3</sup> )
98	99.00
787	406.00
565	144.00

Post DHW Draw Volumes pa		
Events pa	Average duration (secs)	Volume pa (m <sup>3</sup> )
10000	30	-
660	75	-
300	145	-

Table 7.1 - key metrics of Low Temperature Package