



Low Temperature VwART Calculation for Greenstar HIU KE+ 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: 7733600134 ;

VwART calculation prepared by Ian Williamson of Enertek International on 31 October 2019

	VWART(°C)	Volume (m ³)
DHW	21	31.6
Standby	50	100.3
Space Heating	36	53.1

Period	VWART(°C)	% Time
No Heating	43	93%
Heating	37	7%
Overall	42	

	DHW Draw test results		Post DHW Draw (60 seconds)	
	Power (W)	Primary flow (ls)	VWART (°C)	Primary flow (m ³ /hr)
Low	9246	0.056	20	0.000
Medium	16421	0.102	21	0.000
High	21394	0.134	22	0.000

Standby test results	
Primary flow (Ls ⁻¹)	VWART (°C)
0.003000	50

Space Heating test results	
Power (W)	Primary flow (m ³ /hr)
1kWp	0.011
2kWp	0.020
4kWp	0.040

DHW Draw Volumes pa		
kWh pa	Hours	Volume pa (m ³)
729	75.00	15.10
297	18.00	6.60
444	21.00	9.90

Standby Volumes pa	
Hours	Volume pa (m ³)
8,086	101.10

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m ³)
98	91.00	3.60
787	400.00	29.40
565	139.00	20.20

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

Table 7.1 - key metrics of Low Temperature Package