



**High Temperature VWARD Calculation for YGHP 50/10**

Primary flow temperature: 70°C; DHW set point: 55°C; Space heating temperatures: 60°C/40°C

Test carried out by Enertek International for HIGH Temperature BESA Tests

Manufacturer: YGHP; Model: YGHP 50/10; Serial number: 51W19SMP0002;

VWARD calculation prepared by Ian Williamson of Enertek International on 16 January 2020

Table 7.2 - key metrics of High Temperature Package

	VWARD(°C)	Volume (m3)
DHW	14	22.2
Standby	38	34.4
Space Heating	41	47.1

VWARD with Keep warm active		
Period	VWARD(°C)	% Time
No Heating	28	93%
Heating	40	7%
Overall	29	

	DHW Draw test results			Post DHW Draw (60 seconds)	
	Power (W)	Primary flow (ls)	VWARD (°C)	Primary flow (m <sup>3</sup> /hr)	VWARD (°C)
Low	10932	0.047	13	0.005	13
Medium	18351	0.080	14	0.004	14
High	23705	0.102	14	0.002	14

DHW Draw Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
729	62.00	10.60
297	15.00	4.50
444	18.00	6.50

Post DWH Draw Volumes pa		
Events pa	Average duration (secs)	Volume pa (m <sup>3</sup> )
10000	30	0.50
660	75	0.10
300	145	0.10

Standby test results		
	Primary flow (Ls <sup>-1</sup> )	VWARD (°C)
Standby	0.001000	38

Standby Volumes pa	
Hours	Volume pa (m <sup>3</sup> )
8,029	34.40

Space Heating test results			
	Power (W)	Primary flow (Ls <sup>-1</sup> )	VWARD (°C)
1kWp	971	0.010	41
2kWp	2007	0.018	41
4kWp	3977	0.035	42

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
98	101.00	3.50
787	392.00	25.40
565	142.00	18.10