



**VWART Calculation with Keep Warm**

Test carried out by Enertek International for HIGH Temperature BESA Tests  
 Manufacturer: ; Model: ; Serial number: ;  
 VWART calculation prepared by BW of Enertek International on 12/09/2018

	VWART (°C)	Volume (m3)
DHW	13.4	21.7
Standby	37.6	27.7
Space Heating	41.3	45.6

VWART with keep warm active		
Period	VWART (°C)	% Time
No Heating	27.0	93%
Heating	40.3	7%
<b>Overall</b>	<b>27.9</b>	

	DHW Draw test results			Post DHW Draw (60 seconds)	
	Power (W)	Primary flow (m <sup>3</sup> /hr)	VWART (°C)	Primary flow (m <sup>3</sup> /hr)	VWART (°C)
Low	11180	0.163	12.9	0.000	12.8
Medium	18457	0.275	13.7	0.000	12.7
High	24219	0.361	13.8	0.000	13.6

DHW Draw Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
729	65.20	10.62
297	16.09	4.43
444	18.33	6.61

Post DWH Draw Volumes pa		
Events pa	Average duration	Volume pa (m <sup>3</sup> )
10000	30	0.00
660	75	0.00
300	145	0.00

Standby test results		
	Primary flow (m <sup>3</sup> /hr)	VWART (°C)
Standby	0.003441	37.6

Standby Volumes pa	
Hours	Volume pa (m <sup>3</sup> )
8,037	27.65926863

Space Heating test results			
	Power (W)	Primary flow (m <sup>3</sup> /hr)	VWART (°C)
1kWp	1007	0.032	39.8
2kWp	2050	0.065	40.7
4kWp	3977	0.124	42.3

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
98	97.28	3.15
787	383.96	24.84
565	142.06	17.65