



**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	13.8	26.2
Standby	38.7	38.1
Space Heating	35.0	50.5

VWART with keep warm active		
Period	VWART (°C)	% Time
No Heating	28.5	93%
Heating	34.5	7%
<b>Overall</b>	<b>29.0</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	10026	0.175	13.0	0.000	12.9
Medium	16477	0.298	14.0	0.000	13.9
High	21380	0.389	14.7	0.000	13.6

DHW Draw Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
729	72.71	12.74
297	18.03	5.37
444	20.77	8.07

Post DWH Draw Volumes pa		
Events pa	Average duration	Volume pa (m <sup>3</sup> )
10000	30	0.02
660	75	0.00
300	145	0.00

Standby test results		
	Primary flow (m <sup>3</sup> /hr)	VWART (°C)
Standby	0.004739	38.7

Standby Volumes pa	
Hours	Volume pa (m <sup>3</sup> )
8,041	38.10611164

Space Heating test results			
	Power (W)	Primary flow (m <sup>3</sup> /hr)	VWART (°C)
1kWp	975	0.034	35.1
2kWp	2131	0.075	34.8
4kWp	4100	0.140	35.2

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
98	100.50	3.42
787	369.35	27.71
565	137.82	19.35