



**High Temperature VWART Calculation for GF V5 Twin Plate HIU**  
 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: George Fischer; Model: GF V5 Twin Plate; Serial number: 40000120;  
 VWART calculation prepared by Ian Williamson of Enertek International on 25 November 2019

Table 7.1 - Key Metrics of High Temperature Package

	VWART(°C)	Volume (m3)
DHW	15	22.4
Standby	38	26.3
Space Heating	41	43.7

  

VWART with Keep warm active		
Period	VWART(°C)	% Time
No Heating	27	93%
Heating	40	7%
Overall	28	

	DHW Draw test results			Post DHW Draw (60 seconds)	
	Power (W)	Primary flow (ls)	VWART (°C)	Primary flow (m <sup>3</sup> /hr)	VWART (°C)
Low	10654	0.047	15	0.000	13
Medium	18097	0.079	15	0.000	15
High	23446	0.103	16	0.000	16

DHW Draw Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
729	65.00	11.00
297	16.00	4.60
444	18.00	6.80

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

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

Standby Volumes pa	
Hours	Volume pa (m <sup>3</sup> )
8,039	26.30

Space Heating test results			
	Power (W)	Primary flow (Ls <sup>-1</sup> )	VWART (°C)
1kWp	1041	0.009	40
2kWp	2039	0.017	40
4kWp	4006	0.033	41

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
98	94.00	3.10
787	386.00	24.00
565	141.00	16.70