



**Low Temperature VWART Calculation for GF V5 Twin Plate HIU**

Primary flow temperature: 60°C; DHW set point: 50°C; Space heating temperatures: 45°C/35°C  
 Test carried out by Enertek International for Low 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 7.2 - Key Metrics of Low Temperature Package

	VWART(°C)	Volume (m3)
DHW	16	27.8
Standby	38	35.0
Space Heating	35	49.9

  

VWART with Keep warm active		
Period	VWART(°C)	% Time
No Heating	29	93%
Heating	35	7%
Overall	29	

	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	9471	0.052	16	0.000	14
Medium	16313	0.089	16	0.000	15
High	21145	0.115	16	0.000	17

DHW Draw Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
729	73.00	13.60
297	18.00	5.70
444	21.00	8.50

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

Standby	Standby test results	
	Primary flow (ls)	VWART (°C)
	0.001000	38

Standby Volumes pa	
Hours	Volume pa (m <sup>3</sup> )
8,039	36.00

	Space Heating test results		
	Power (W)	Primary flow (m <sup>3</sup> /hr)	VWART (°C)
1kWp	1036	0.010	35
2kWp	2079	0.020	35
4kWp	4132	0.038	35

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m <sup>3</sup> )
98	95.00	3.50
787	379.00	27.50
565	137.00	18.90