



**High Temperature VVART Calculation for Hiper II 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: Intatec Limited; Model: Hiper II; Serial number: 300001 ;  
 VVART calculation prepared by Ian Williamson of Enertek International on 25 November 2019

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

  

Period	VVART(°C)	% Time
No Heating	27	93%
Heating	40	7%
Overall	28	

**Table 7.1 - Key Metrics of High Temperature Package**

	DHW Draw test results		Post DHW Draw (60 seconds)		DHW Draw Volumes pa		Post-DHW Draw Volumes pa			
	Power (W)	Primary flow (ls)	VVART (°C)	Primary flow (m <sup>3</sup> /hr)	VVART (°C)	Hours	Volume pa (m <sup>3</sup> )	Events pa	Average duration (secs)	Volume pa (m <sup>3</sup> )
Low	10654	0.047	15	0.000	13	729	65.00	11.00	10000	30
Medium	18097	0.079	15	0.000	15	297	16.00	4.60	660	75
High	23446	0.103	16	0.000	16	444	18.00	6.80	300	145

  

Standby test results	
Primary flow (Ls <sup>-1</sup> )	VVART (°C)
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> )	VVART (°C)	
1kWp	1041	0.009	40
2kWp	2039	0.017	40
4kWp	4006	0.033	41

  

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