



Low Temperature VWARD Calculation for Hiper II 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 HIGH Temperature BESA Tests
 Manufacturer: Intatec Limited; Model: Hiper II; Serial number: 300001;
 VWARD calculation prepared by Ian Williamson of Enertek International on 25 November 2019

Table 7.2 - Key Metrics of Low Temperature Package

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

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

	DHW Draw test results			Post DHW Draw (60 seconds)		DHW Draw Volumes pa			Post DWH Draw Volumes pa		
	Power (W)	Primary flow (ls)	VWARD (°C)	Primary flow (m ³ /hr)	VWARD (°C)	kWh pa	Hours	Volume pa (m ³)	Events pa	Average duration (secs)	Volume pa (m ³)
Low	9471	0.052	16	0.000	14	729	73.00	13.60	10000	30	-
Medium	16313	0.089	16	0.000	15	297	18.00	5.70	660	75	-
High	21145	0.115	16	0.000	17	444	21.00	8.50	300	145	-

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

Standby Volumes pa	
Hours	Volume pa (m ³)
8,039	36.00

Space Heating test results			
	Power (W)	Primary flow (m ³ /hr)	VWARD (°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 ³)
98	95.00	3.50
787	379.00	27.50
565	137.00	18.90