



Low Temperature VwART Calculation for Heatlink HL3000-E 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: Taconova Group; Model: HL3000-E; Serial number: 696-00003;

VwART calculation prepared by Ian Williamson of Enertek International on 27 March 2020

Table 7.1 - key metrics of Low Temperature Package

	VwART(°C)	Volume (m3)
DHW	16	28.4
Standby	42	36.7
Space Heating	36	53.2

VwART with Keep warm active		
Period	VwART(°C)	% Time
No Heating	31	93%
Heating	36	7%
Overall	31	

	DHW Draw test results			Post DHW Draw (60 seconds)	
	Power (W)	Primary flow (ls)	VwART (°C)	Primary flow (m ³ /hr)	VwART (°C)
Low	8469	0.047	15	0.000	15
Medium	16016	0.091	17	0.000	17
High	20595	0.114	17	0.000	17

DHW Draw Volumes pa		
kWh pa	Hours	Volume pa (m ³)
729	81.00	13.60
297	18.00	6.00
444	21.00	8.70

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

Standby test results		
	Primary flow (Ls ⁻¹)	VwART (°C)
Standby	0.001000	42

Standby Volumes pa	
Hours	Volume pa (m ³)
8,002	36.60

Space Heating test results			
	Power (W)	Primary flow (Ls ⁻¹)	VwART (°C)
1kWp	1013	0.011	36
2kWp	2037	0.021	36
4kWp	3969	0.040	36

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m ³)
98	97.00	3.90
787	386.00	29.00
565	142.00	20.30