High Temperature VWART Calculation for Heatlink HL3000-E HIU

Primary flow temperature: 70°C; DHW set point: 55°C; Space heating temerpatures: 60°C/40°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 26 March 2020

	VWART(°C)	Volume (m3)
DHW	16	23.1
Standby	39	13.0
Space Heating	42	47.6

	VWART with Keep warm active	
Period	**VWART(°C)**	**% Time**
No Heating	25	93%
Heating	41	7%
Overall	**26**	

Table 7.2 - key metrics of High Temperature Package

	DHW Draw test results			Post DHW Draw (60 seconds)		DHW Draw Volumes pa			Post DWH Draw Volumes pa		
	Power (W)	Primary flow (ls)	VWART (°C)	Primary flow (m^3/hr)	VWART (°C)	kWh pa	Hours	Volume pa (m^3)	Events pa	Average duration (secs)	Volume pa (m^3)
Low	10013	0.042	16	0.000	15	729	73.00	11.10	10000	30	-
Medium	18220	0.083	17	0.000	16	297	16.00	4.90	660	75	-
High	23265	0.103	17	0.000	17	444	19.00	7.10	300	145	-

	Standy test results	
	Primary flow (Ls^{-1})	VWART (°C)
Standby	0.000500	39

Standby Volumes pa	
Hours	Volume pa (m^3)
8,008	13.00

	Space Heating test results		
	Power (W)	Primary flow (Ls^{-1})	VWART (°C)
1kWp	959	0.010	42
2kWp	1945	0.018	42
4kWp	4066	0.034	42

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m^3)
98	102.00	3.70
787	405.00	26.20
565	143.00	17.70