



High Temperature VWARD Calculation for SAV HIU

Test carried out by RISE in May 2017, Test Reference 7P03675B

Manufacturer: Germina Termix A/S.; Model: VVX-I-R FI 1-2RAD; Serial number: L7020418; Year of manufacture: 2017

VWARD calculation prepared by Tom Naughton of FairHeat Ltd on 14 July 2017, Model number amended by S Cook May 2021

	VWARD	Volume
DHW	17.6	24.89
Standby	42.6	34.13
Space Heating	41.4	47.82

Period	With Standby active		With Standby Inactive	
	VWARD	% Time	VWARD	% Time
No Heating	32.0	93%	N/A	N/A
Heating	40.6	7%	N/A	N/A
Overall	32.6		N/A	

	DHW Draw test results			Post DHW Draw (60 seconds)	
	Power (W)	Primary flow (m3/hr)	Return Temp(°C)	Primary flow (m3/hr)	Return Temp(°C)
Low	11056	0.181	17.4	0.006	17.4
Medium	15959	0.260	17.6	0.012	17.5
High	23555	0.384	17.8	0.015	17.8

DHW Draw Volumes pa		
kWh pa	Hours	Volume pa (m3)
729	65.94	11.941
297	18.61	4.834
444	18.85	7.237

Post DHW Draw Volumes pa		
Events pa	Average duration (secs)	Volume pa (m3)
10000	30	0.535
660	75	0.169
300	145	0.177

Standby	Standby test results	
	Primary flow (m3/hr)	Return Temp(°C)
	0.004	42.6

Standby Volumes pa	
Hours	Volume pa (m3)
8,024	34.13

	Space Heating test results		
	Power (W)	Primary flow (m3/hr)	Return Temp(°C)
1kWp	955	0.032	40.8
2kWp	2014	0.066	41.2
4kWp	4050	0.133	41.9

Space Heating Volumes pa		
kWh pa	Hours	Volume pa (m3)
98	102.67	3.278
787	390.75	25.937
565	139.51	18.603