



VWART Calculation with Keep Warm

Test carried out by Enertek International for High Temperature BESA Tests
 Manufacturer: George Fischer Sales
 Model: HPTP Indirect Heat interface unit
 Serial number: GF2039 0001
 Calculation performed by I.Williamson of Enertek on: 18/12/2020

Primary Flow Temperature: 70°C
 DHW Setpoint: 55°C
 Space Heating Temperature: 60/40°C

Table 7.1 – Key Metrics of high temperature Package

	VWART (°C)	Volume (m3)
DHW	21	28.0
Standby	40	16.1
Space Heating	44	48.5

Period	VWART with keep warm active	
	VWART (°C)	% Time
No Heating	28	93%
Heating	43	7%
Overall	29	

		Test Results							
		Power [W]	Primary flow [m³/hr]	VWART [°C]	Energy Used [kWh]	Annual Operation [Hours]	Volume [m³]	Events [Per Year]	Average duration [Seconds]
1kW Space Heating	1a	1129	0.037	44	107	94.4	3.54	-	-
2kW Space Heating	1b	1964	0.063	43	804	409.3	25.91	-	-
4kW Space Heating	1c	3970	0.136	45	556	140.0	19.07	-	-
DHW Low Flow Rate	2a	551	0.006	19	451	1323.1	7.67	-	-
DHW Medium Flow Rate	2a	772	0.009	21	196	384.9	3.44	-	-
DHW High Flow Rate	2a	894	0.011	25	287	496.8	5.60	-	-
DHW Post Low Flow Rate	2a	-	0.342	24	-	-	7.91	10000	30
DHW Post Medium Flow Rate	2a	-	0.468	25	-	-	1.67	660	70
DHW Post High Flow Rate	2a	-	0.492	27	-	-	1.67	300	145
DHW Keep Warm Standby	4a	-	0.003	40	-	5911.4	16.11	-	-