



VWART Calculation with Keep Warm

Test carried out by Enertek International for Low Temperature BESA Tests
 Manufacturer: Groupe Atlantic
 Model: i505
 Serial number: 225249000000005
 Calculation performed by S.Broxham of Enertek on: 30/11/2021

Primary Flow Temperature: 60°C
 DHW Setpoint: 50°C
 Space Heating Temperature: 45/35°C

	VWART (°C)	Volume (m3)
DHW	22	33.7
Standby	44	61.1
Space Heating	36	55.8

Period	VWART with keep warm active	
	VWART (°C)	% Time
No Heating	36	93%
Heating	36	7%
Overall	36	

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	1d	1128	0.050	41	112	99.1	5.00	-	-
2kW Space Heating	1e	2222	0.081	35	815	366.8	29.68	-	-
4kW Space Heating	1f	4019	0.147	36	578	143.7	21.08	-	-
DHW Low Flow Rate	2b	9452	0.206	21	711	77.1	15.88	-	-
DHW Medium Flow Rate	2b	17450	0.421	23	306	17.0	7.16	-	-
DHW High Flow Rate	2b	20053	0.481	23	451	22.1	10.66	-	-
DHW Post Low Flow Rate	2b	-	0.000	0	-	-	0.00	10000	30
DHW Post Medium Flow Rate	2b	-	0.000	0	-	-	0.00	660	70
DHW Post High Flow Rate	2b	-	0.000	0	-	-	0.00	300	145
DHW Keep Warm Standby	4b	-	0.008	44	464	8034.0	61.07	-	-

Table 7.2 - Key Metrics of Low Temperature Package