



VWART Calculation with Keep Warm

Test carried out by Enertek International for Low Temperature BESA Tests
 Manufacturer: Groupe Atlantic
 Model: i305 30kW
 Serial number: 22523800000006
 Calculation performed by S.Broxham of Enertek on: 03/11/2021

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

	VWART (°C)	Volume (m3)
DHW	25	35.8
Standby	45	60.5
Space Heating	38	57.0

Period	VWART with keep warm active	
	VWART (°C)	% Time
No Heating	38	93%
Heating	38	7%
Overall	38	

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	1049	0.043	39	102	96.9	4.21	-	-
2kW Space Heating	1e	1981	0.079	38	776	391.4	30.95	-	-
4kW Space Heating	1f	3766	0.150	38	549	145.7	21.82	-	-
DHW Low Flow Rate	2b	9104	0.202	23	697	80.1	16.18	-	-
DHW Medium Flow Rate	2b	17004	0.444	26	298	17.5	7.76	-	-
DHW High Flow Rate	2b	20587	0.550	27	446	21.6	11.86	-	-
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	45	309	8006.8	60.52	-	-

Table 7.2 - Key Metrics of Low Temperature Package