



VWART Calculation with Keep Warm

Test carried out by Enertek International for High 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: 70°C

DHW Setpoint: 55°C

Space Heating Temperature: 60/40°C

	VWART (°C)	Volume (m3)
DHW	22	27.1
Standby	43	41.5
Space Heating	45	52.2

Period	VWART with keep warm active	
	VWART (°C)	% Time
No Heating	35	93%
Heating	44	7%
Overall	35	

Test Results									
		Power	Primary flow	VWART	Energy Used	Annual Operation	Volume	Events	Average duration
		[W]	[m ³ /hr]	[°C]	[kWh]	[Hours]	[m ³]	[Per Year]	[Seconds]
1kW Space Heating	1a	1242	0.047	46	110	88.8	4.20	-	-
2kW Space Heating	1b	2141	0.073	44	804	375.7	27.38	-	-
4kW Space Heating	1c	4122	0.152	46	560	135.9	20.60	-	-
DHW Low Flow Rate	2a	10596	0.183	20	721	68.8	12.60	-	-
DHW Medium Flow Rate	2a	19664	0.380	23	304	15.1	5.74	-	-
DHW High Flow Rate	2a	23848	0.469	24	452	18.6	8.72	-	-
DHW Post Low Flow Rate	2a	-	0.000	0	-	-	0.00	10000	30
DHW Post Medium Flow Rate	2a	-	0.000	0	-	-	0.00	660	70
DHW Post High Flow Rate	2a	-	0.000	0	-	-	0.00	300	145
DHW Keep Warm Standby	4a	-	0.005	43	485	8057.1	41.54	-	-

Table 7.1 - Key Metrics of High Temperature Package