



VWART Calculation with Keep Warm

Test carried out by Enertek International for Low Temperature BESA Tests

Manufacturer: 0

Model: 0

Serial number: 0

Calculation performed by B Meekin of Enertek on: 10/08/2019

Primary Flow Temperature: 60°C

DHW Setpoint: 50°C

Space Heating Temperature: 45/35°C

Low Temperature VWART Calculations

	VWART (°C)	Volume (m3)
DHW	19	23.1
Standby	46	64.5
Space Heating	35	52.3

Period	VWART with keep warm active	
	VWART (°C)	% Time
No Heating	39	93%
Heating	36	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	1065	0.036	35	105	98.1	3.50	-	-
2kW Space Heating	1e	2035	0.072	35	821	403.6	28.97	-	-
4kW Space Heating	1f	4023	0.139	35	574	142.7	19.81	-	-
DHW Low Flow Rate	2b	12258	0.184	18	530	59.5	10.93	-	-
DHW Medium Flow Rate	2b	20606	0.334	20	228	14.4	4.81	-	-
DHW High Flow Rate	2b	26723	0.441	21	337	16.6	7.33	-	-
DHW Post Low Flow Rate	2b	-	0.001	17	-	-	0.03	10000	30
DHW Post Medium Flow Rate	2b	-	0.002	19	-	-	0.01	660	70
DHW Post High Flow Rate	2b	-	0.001	21	-	-	0.01	300	145
DHW Keep Warm Standby	4b	-	0.008	46	-	8025.1	64.54	-	-