VWART Calculation with Keep Warm

Test carried out by Enertek International for High Temperature BESA Tests

Manufacturer:	Intatec Ltd
Model:	HIPER2TPSZ80
Serial number:	INE211410015AR
Calculation performed by S.Broxham of Enertek on:	05/05/2021

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

	VWART (°C)	Volume (m3)
DHW	15	22.8
Standby	37	27.1
Space Heating	43	47.8

	VWART with keep warm active	
Period	**VWART (°C)**	**% Time**
No Heating	27	93%
Heating	41	7%
Overall	**28**	

		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	1211	0.037	41	108	89.0	3.33	-	-
2kW Space Heating	1b	2073	0.067	42	811	391.1	26.36	-	-
4kW Space Heating	1c	3946	0.126	43	565	143.2	18.09	-	-
DHW Low Flow Rate	2a	11017	0.006	14	705	66.2	11.12	-	-
DHW Medium Flow Rate	2a	18379	0.009	15	295	16.2	4.65	-	-
DHW High Flow Rate	2a	23919	0.008	15	444	18.6	6.92	-	-
DHW Post Low Flow Rate	2a	-	0.274	13	-	-	0.08	10000	30
DHW Post Medium Flow Rate	2a	-	0.361	15	-	-	0.00	660	70
DHW Post High Flow Rate	2a	-	0.351	15	-	-	0.00	300	145
DHW Keep Warm Standby	4a	-	0.003	37	-	8035.8	27.11	-	-

Table 7.1 - Key Metrics of High Temperature Package