

Heating and Hot Water

Objectives

1. Demonstrate how different heating and hot water options might meet different user requirements
2. Demonstrate how different heating and hot water options might be most appropriate for voids and wider refurb

	Harton Units	Unvented cyclinder	Mega Flow	HIU	Individual Combi bolier
A Costs					
Instalation cost	£2,500.00	£2,500.00	£2,150.00	£4,700.00	£2,500.00
Service charge costs	£100	£80 + VAT	£95 + VAT	£75	£90 + VAT
B Measures					
Water pressure (Based on spec)	2 bars	3 bars	3 bars	3 -10 bars	1-2 bars
Ambient temperature tank cupboard	32.2	31.2	31.2	31.5	32.8
Ambient humidity in the tank cupboard	42.7	41	TBC	45	42
Average change in EPC rating	TBC	TBC	TBC	6pts	TBC
C Technical problems					
Space taken (<i>1 = Lots - 5 = Little</i>)	1	4	4	3	4
Capability to maintain (<i>Who can maintain?</i>)	Any Plumber	Part P Plumber	Part P Plumber	Part P Plumber	Gas Safe Engineer
Heat exchange rate co efficient (<i>1 = Worst- 5 = Best</i>)	1	3	4	5	2
Lifespan (<i>In years</i>)	10- 15 years	20 years	10 - 20 years	15-20 years	15 years
Insulation required (<i>In meters</i>)	5 meters	2 meters	0 meters	5 meters	0 meters
Ease to operate (<i>1 = Hardest - 5 = Easiest</i>)	5	1	4	5	3
Visual apperance (<i>1 = Sexy - 5 = Ugly</i>)	5	5	5	1	3
Common faults	Rust / Leaks	Three way valves	Control panel / Electrics	Internal parts	Burners & fans
Pipework changes required?	Yes	Yes	No	Yes	Yes
Smart thermostat compatible?	No	No	Yes	Yes	Yes
Estimated annual cost heating?	TBC	TBC	TBC	£342	£250
Estimated annual cost hot water?	TBC	TBC	TBC	£94	£63
Constant supply of hot water	No	Yes	Yes	Yes	Yes
High pressure shower	No	Yes	Yes	Yes	Yes
To be able to change and manage the temperature	Yes	No	Yes	Yes	Yes