Heating and Hot Water Pilot

Autumn 2019

Our voids programme gives us an opportunity to trial alternative heating and hot water solutions.
This is a summary of what residents want and the pros and cons so far.

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Residents comments:

- "The heating always fails in winter"
- "When the heating is turned off it is difficult to get it back on. We always need an engineer to come out."
- "When the heating is switched off you can still feel it around the house."
- "In the summer the heat in the flat is unbearable, the flat is surrounded by pipes and you can feel the heat in all rooms."
- "The pipes make a loud noise, not sure why or where this is coming from"

Resident Requirements:

- Constant and consistent supply of hot water
- Good water pressure, especially for the shower
- Manage the temperature of the home themselves
- Manageable bills
- Environmentally-friendly
- Reliability

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Existing Harton Unit:

List of problems:

- Takes up lots of space
- High cost of running
- Humidity in home
- High temperature in cupboard and hallways e.g. 45°C
- No control of valves
- No pressure for showers or baths

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Heating and Hot Water Units

New Harton Unit	Unvented Cylinder	Mega Flow	Heat Interface Units	Individual Combi Boiler
				

Approximate Scale comparison.

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Heating and hot water units	New Harton Unit	Unvented Cylinder	Mega Flow	Heat Interface Units	Individual Combi Boiler
Overall Rating	★	★★★	★★★★	★★★★★	★★★★
Average Cost to install	~£2500	~£2500	~£2150	£4700	~£2500
Average cost of bills	£ TBC	£ TBC	£ TBC	£436	£313
Average temp in tank cupboard	32.2	31.2	31.2	31.5	32.8
Average humidity in tank cupboard	42.7	41	TBC	45	42
EPC	TBC	TBC	TBC	6pt improvement	TBC
Who can maintain	Any plumber	Part P Plumber	Part P Plumber	Part P Plumber	Part P Plumber
Heat exchange rate co efficient	★	★★★	★★★★	★★★★★	★★★★

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Heating and hot water units	New Harton Unit	Unvented Cylinder	Mega Flow	Heat Interface Units	Individual Combi Boiler
Smart Thermostat compatible	Yes	Yes	No	Yes	Yes
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
Ease to operate	Easy	Hard	Quite easy	Very Easy	Medium
Space taken	Most	Lots	Lots	A little	A little
Lifespan	10 - 15 Years	20 Years	10-20 Years	15 – 20 Years	15 Years

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