

Fuel Element or System	Walls	Floors	Roofs	Openings	Allowance for thermal bridging	Open flues	Heating system, pump in heated space	Heat system controls	Hot Water (HW) system	Secondary space heating	Heat recovery systems	Photovoltaics
Gas	0.17	0.15	0.11	1.4	0.08 x total exposed surface area	None	Gas boiler room-sealed fan flued 89% efficiency	Time & temperature zone control + Boiler interlock + weather compensation + delayed start	Stored HW (from boiler) separate time control for space & water heating	None	Instantaneous waste water heat recovery system, 45% efficiency	Yes
LPG	0.17	0.15	0.11	1.4	0.08 x total exposed surface area	One	LPG boiler room-sealed fan flued 89% efficiency	Time & temperature zone control + Boiler interlock + weather compensation + delayed start	Stored HW (from boiler) separate time control for space & water heating	10% closed wood log-burning room heater	Instantaneous waste water heat recovery system, 45% efficiency	Yes
Oil	0.17	0.15	0.11	1.4	0.08 x total exposed surface area	One	Oil boiler room-sealed fan flued 89% efficiency	Time & temperature zone control + Boiler interlock + weather compensation + delayed start	Stored HW (from boiler) separate time control for space & water heating	10% closed wood log-burning room heater	Instantaneous waste water heat recovery system, 45% efficiency	Yes
Electricity	0.17	0.15	0.11	1.4	0.08 x total exposed surface area	None	Air to water heat pump 175.2% efficiency	Time & temperate zone control	Stored HW (electric immersion) separate time control for space & water heating	10% electric	Instantaneous waste water heat recovery system, 45% efficiency	No
Biomass	0.17	0.15	0.11	1.4	0.08 x total exposed surface area	One	Wood pellet boiler 86% efficiency, HETAS approved	Time & temperate zone control + delayed start	Stored HW (from boiler) separate time control for space & water heating	None	Instantaneous waste water heat recovery system, 45% efficiency	No