

# Results - NRG Awareness

HEAT SOURCE: **Heat pump**

OUTDOOR DESIGN TEMPERATURE: **-3.0**

FLOW TEMPERATURE: **45.0**

RETURN TEMPERATURE: **36.7**

Heat Emitter: <b>Underfloor Heating</b>			Flow temperature: <b>35</b>			Return temperature: <b>30</b>	
Room name	Room type	Room temp	Room area [m <sup>2</sup> ]	Heat loss [W]	Heat loss [W/m <sup>2</sup> ]	Flow rate [l/m]	Recommended UFH pipe centres:
Living Room	Living Room	21	25.2	1,114	44	3.198	150mm
Kitchen & Dining Room	Kitchen	21	38.64	1,858	48	5.332	150mm
Utility Room	Utility	18	7	225	32	0.645	150mm
Ground floor bathroom	Bathroom	22	3.69	288	78	0.828	100mm
Bedroom 3	Bedroom	18	11.48	244	21	0.702	150mm
Entrance Hall	Hall	18	14.45	271	19	0.778	150mm
Play Room	Games Room	21	10.8	329	30	0.943	150mm
<b>ZONE HEAT LOSS: 4,329 W</b>			<b>ZONE FLOW RATE: 12.425 l/m</b>			<b>ZONE AREA: 111.26 m<sup>2</sup></b>	

Heat Emitter: <b>Radiators</b>			Flow temperature: <b>45</b>				Return temperature: <b>40</b>		
Room name	Room type	Room temp	Room area [m <sup>2</sup> ]	Heat loss [W]	Heat loss [W/m <sup>2</sup> ]	Flow rate [l/m]	Plus Evo 500 radiator sections required	Correction factor (deltaT 50)	Correction factor (deltaT 60)
Bedroom 2	Bedroom	18	15.92	310	19	0.890	7	0.396	0.312
Office	Office	21	16.92	518	31	1.486	14	0.334	0.263
Landing	Landing	18	15.31	171	11	0.492	4	0.396	0.312
Linen Room	Store	16	2.75	-38	-14	-0.110	-0	0.438	0.346
Store	Store	16	5.94	92	16	0.265	2	0.438	0.346

Room name	Room type	Room temp	Room area [m <sup>2</sup> ]	Heat loss [W]	Heat loss [W/m <sup>2</sup> ]	Flow rate [l/m]	Plus Evo 500 radiator sections required	Correction factor (deltaT 50)	Correction factor (deltaT 60)
Bedroom 1	Bedroom	18	15.18	305	20	0.876	7	0.396	0.312
First floor bathroom	Bathroom	22	8.58	578	67	1.659	16	0.314	0.248
Master bedroom	Bedroom	18	24.28	464	19	1.331	11	0.396	0.312
Ensuite	Bathroom	22	6.61	469	71	1.346	13	0.314	0.248

**ZONE HEAT LOSS: 2,869 W**

**ZONE FLOW RATE: 8.235 l/m**

**ZONE AREA: 111.49 m<sup>2</sup>**

**TOTAL HEAT LOSS: 7,198 W**

**TOTAL HEAT LOSS PER m<sup>2</sup>: 32.32 W/m<sup>2</sup>**

**PROJECT AREA: 222.8 m<sup>2</sup>**

**HEAT GENERATOR FLOW RATE: 0.206 l/m**

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