



Renewable Energy Surveys

Emitter Schedule (Insulation/eco4 Measures) - Crossley PO21 4TB

Further Information

This calc has insulation measures.

Disclaimers

1) This proposal has been designed in accordance with the guidance set out within the MIS3005-D standards, using data and information gathered by a Domestic Energy Assessor/site surveyor and sales representative(s), as well as information from the end user, prior to installation. Apex are not responsible for any alterations or deviations to this design by anyone not authorised to do so, or any alterations to this design carried out without prior consultation with a design engineer.

2) The heat output of any existing heat emitters that cannot be verified will be calculated based on an assumed and/or approximate kW output. This includes (but is not limited to): radiators over fifteen years old, obsolete models, designer radiators of an unknown brand/model/age, cast iron radiators, underfloor heating, non-standard towel rails, electric storage heaters, and warm air systems.

3) Any variations or deviations to the above listed heat emitters must be discussed and agreed upon with the customer prior to installation of the air source heat pump. Any post-installation amendments to this agreement may be chargeable to the customer.





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Heat Loss Summary (Insulation/eco4 Measures) - Crossley PO21 4TB

(w)

(w)

(w)

Total

3347.44

1776.00

15147.01

Total Heat Loss (kW)

5.12

(Rounded to two decimal places)

Domestic Hot Water Calculation - Crossley PO21 4TB

Bedrooms / Occupants	2	Installation Intended For	Heating and Hot Water
Calculated Demand	135	DHW Demand from EPC	2170
Immersion Size (kW)	3	Water temp. for DHW	50 °C
Immersion Use	Once per week	Estimated SCOP for DHW	1.75
Proposed Cylinder Size	150 ltrs	Estimated Immersion Cost	£30.94
Primary Cyl. Location	Cylinder location 1 on survey	Estimated Hot Water Cost	£291.15
Secondary Cyl. Location	N/A	Total Annual DHW Est. Cost	£322.09



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Proposal Summary (Insulation/eco4 Measures) - Crossley PO21 4TB

Property Information

Date Created	18/07/2024	Outdoor Temp	-1.8
Customer Name	Mr Gary Crossley	Flow Temp	50 °C
Address Line 1	109 West Fraont Road	MAT Location	Southern (Hurn)
Address Line 2	Bognor Regis	Degree Days	2224
City	West Sussex	Space Heat Demand	10343
Postcode	PO21 4TB	DHW Demand	2170
Property Type	Bungalow	Size (m2)	89
Age of Property	Pre 2000	Electric (p/kWh)	23.48
Bedrooms/Occupants	2	Seasoned Wood	79
Total Heat Loss (kW)	5.12	Are these Average Unit Rates?	Yes

Proposed Equipment

ASHP Manufacturer	Samsung	Cylinder Size	150 Ltr Slim KODIAK
ASHP Model Number	8kW / AE080RXYDEG/EU COASTAL	Cylinder Dimensions	1500h x 625w (mm)
ASHP Max Output	6.5 kW	Est. SCOP - DHW	1.75
Est. SCOP - Heating	3.4	Heating Designed For	Continuous Heat
Est. Space Heat Cost	£560.99	Auxillary Space Heat?	No
Est. Annual Cost	£883.08	Auxillary DHW?	Immersion

Equipment Location & MCS020 Sound Calculation

ASHP Location	Rear of property	Sound power level (dB)	63
Wall / Ground	Ground	Sound pressure level	Q2 - "One Reflective Surface"
Cylinder Location A	Cylinder location 1 on survey	Distance from heat pump to assessment position (mtr)	3
Cylinder Location B	N/A	Distance reduction (dB)	-17
Fuse Board Location	Located in bedroom 1	Barriers between ASHP and assessment pos.	Barrier (no view)
Electricity Phase	Single Phase	Sound pressure level at assessment position	36
Solar Present	N/A - No Solar Present	Background noise level (dB)	40
		Differential between sound pressure and background noise	4
		Decibel correction (dB)	41.5
		Result	42dB, PASS
		Permitted Development Rights	Yes

Disclaimer: Photographic and/or video evidence provided with a site survey will be used to establish the most suitable heat pump location, based on assumed habitable areas in the nearest neighbouring property. It is the responsibility of the installer to confirm the most suitable location with the customer.

