MCS Compliance Certificate Heat Pump



General Information Customer Name & Address Mary Ryan The Laurels High Beeches Harpenden	Installer Name & Address Best Electrical Ltd 24 High St Bedford
HA4 1AS Commisioning Date: 01/04/2014	MCS Certification: MCS 123456789
Purpose of Installation Provide Space Heating Provide Water Heating Intermittent or Continuous: BiValent or Multivalent:	Yes True Continuous False
Regulations and Approvals Have all regulations been met and approvals obtained (including planning approval as required)? If installed in England, does the installation comply with MCS 020 where permitted development is required (air source heat pumps only)?	True True
Heating Calculations Heat loss calculation carried out for every heated room? Heat loss calculator used (name and version) Design external temperature (°C) Design ground temperatures (°C) Total building heat loss in kW If designed for intermittent heating, what uplift factor? Has the Domestic Hot Water (DHW) system been designed by considering the number and types of points of use and anticipated consumption within the property? Has the reheat time of the hot water storage vessel been estimated and agreed with the customer? Have the implications of the system design on the costs associated with providing space heating and domestic hot water to the building been explained in writing to the owner?	Yes Web MCS Calculator 1.01 -1.8 -1.8 See Rooms List 1.8 1.20 True True True
Heat emitter design Lowest of the oversize factors or pipe spacing (as appropriate) for the heat emitters that are to be used What heat emitters are installed Floor covering (If underfloor heating) All Room heat losses in watts (W) (or w/m2 together with floor areas) Has a blending valve been installed to reduce the water temperature in the heat emitters? Temperature (°C) of the water leaving the heat pump when supplying space heating at the design external temperature? What is the Temperature Star Rating for the whole heating system? Has the customer been provided with a copy of the calculations carried out for the HEG?	3.1 See Rooms List See Rooms List False 45 See Rooms List True
Hot water system Is hot water heating provided by the heat pump Maximum flow temperature (°C) of the heat pump while providing hot water Fraction of hot water supplied by the heat pump, excluding the immersion heater Volume of the cylinder in litres and note evidence for the choice Is the cylinder including the heat exchanger designed to operate with a heat pump	True 40 Full excluding Immersion 120BS 6700 Domestic HW Cylinder Selection Guide True



Individual Room Heat Loss Table

Room Description	Туре	Stars Rating Oversize	Temp. ℃	Heat Loss (w)	Loss (w) Area m2	Heat Emmiter Type & Dimensions
Living Room	Living Room	<mark>ជាជាជាជា</mark> ជាជា	21	298	24.83	Fan Coil Unit H 0mm W 0mm
Bedroom	Bedroom	<mark>ጵጵጵጵ</mark> ጵጵ	18	297	24.75	Standard Radiator H 450mm W 750mm

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Heat pump selection Make and model name of the installed heat pump MCS product certification number for the heat pump Heat output from the heat pump in kW (excluding heat from any supplementary heaters) at the design external and design flow temperatures Does the heat pump provide a full or partial heating service If partial, what is the percentage of annual space heating requirements met by the heat pump (excluding supplementary heaters) Does the heat pump provide full or partial hot water heating If partial, what is the percentage of annual hot water requirements met by the heat pump (excluding supplementary heaters)	Dimplex LA6MI 123456 5.79 False 100 True Full excluding Immersion
System performance calculations and annual energy figures Annual space heating demand (kWh/yr) Annual water heating demand (kWh/yr) Percentage of space heating and water heating demand provided by the heat pump (excluding auxiliary and immersion heaters) Annual electricity consumption of the heat pump (excluding auxiliary and immersion heaters) (kWh/yr) Annual electricity consumption of auxiliary and immersion heaters (kWh/yr) Annual energy consumption of other heat sources (kWh/yr) SPF or SPER of the heat pump If intended as domestic RHI installation, maximum qualifying renewable heat (kWh/yr) from the Energy Performance Certificate (EPC) where available	1401 0 100 519 0 2.7 0
Installation Details Does the installation conform to the design Have all manufacturers' instructions been followed including installation location and condensate drainage (as appropriate) Where the requirements of MIS 3005 beckeed those of the manufacturer, have the requirements of MIS 3005 been met Does the installation conform to the MCS Domestic RHI Metering Guidance What is the outcome of Procedure A in the MCS Domestic RHI Metering Guidance Is the installation meter ready? If not, please state why	True True False False False
Commissioning and handover Explain how the controls have been set to ensure that the system operating temperature is no higher than TFSH at the design external temperature Record the control settings Has the heat pump and other components of the system been commissioned according to the manufacturers' instructions and system design parameters Has a label been attached to the system in accordance with MIS 3005? Have you given the customer a handover pack? State the issue number of MIS 3005 used Have you informed the customer that they will receive an MCS installation certificate that they should keep with their handover pack	Yes False True Yes