

DESIGN AND ACCESS STATEMENT INCLUDING HERITAGE STATEMENT

St. Mary Magdalene Church, Hullavington Air source heat pump installation

The proposed scheme involves the installation of an air source heat pump outside the west wall of the church together with the installation of two ancillary water storage tanks. The pump will be located approximately 0.5m off the west wall and will be located on a concrete plinth. The storage tanks will be located in a totally enclosed room, within the church, currently housing the existing electric boilers, domestic hot water storage tank and distribution pipework. The pump is 1.5m wide, 1.65m high and 0.46m deep. The metal casing will be anthracite grey in colour. The heat pump selection has been made in consultation with the proposed installer, Swift Renewables, and the manufacturer, Panasonic, as being capable of meeting the heating and domestic water requirements for the church, and compatible with the existing pipework configurations.

The pump will be connected to the internal tanks via pipe and cable ducts through the west wall of the tower. These ducts, 2no. 90mm diameter, and 1no. 40mm diameter, will be installed by a specialist drilling contractor so as not to cause damage to the wall stonework.

The location will be such that there will be no noise nuisance to either of the two properties nearest to the pump. A noise calculation sheet has been provided with the planning application relating to Court House, the property to the west of the installation. This is the only property with direct line of sight to the heat pump and the calculated sound level of 26.7dB at the property falls below the Wiltshire Council guideline of 35dB.

The location is removed from access points to the church building and will have no impact on the current arrangements for such access or to the churchyard.

The pump is being installed in order to significantly reduce the high power costs of the existing system which involves two electric boilers. An energy efficiency survey carried out at the church concluded that an air source heat pump was the only feasible option for the replacement of the existing boilers. It is considered an investment that in the long term will be cost beneficial, and allow the church to provide warmer facilities both for the current use and any extended use within the community in the future.

The location of the heat pump at the west wall is at the rear of the church and the pump will not be able to be seen from any road or footpath outside the confines of the churchyard. It is considered that there will be no impact on the character of the Listed Building and there will be no change to any of the historic fabric of the church. There will be a change to the layout within the room where the new storage tanks are to be located, but this room is totally enclosed and is currently used for the same purpose as well as general storage. There will be no change or impact to the church layout or to the internal fabric.

The installation will be carried out by Swift Renewables, or another similarly accredited installer. The installer will be MCS accredited, and as such the installation will be carried out to meet Building Regulations requirements.