



- NOTES:
- This drawing is for hydronic design guidance only and is not to scale. If the principle of entry/exit points are strictly adhered to, a design warranty will be issued on completion.
 - All downstream radiators to be fitted with IM1-Hydronic 'eclipse' TRV (thermostatic radiator valves). These can be correctly balanced to the heat/flow demand of each emitter and maintain the correct delta T as per the emitter requirement. Allow for 54 sets.
 - All pipework to be fully insulated with minimum 20mm wall, foil back insulation and labelled with flow direction, service type etc.
 - Please read this drawing in conjunction with the supplied plant specification sheets.
 - Boiler cascade to be commissioned at a Delta T of 70/50 flow and return temperature respectively. It is strongly recommended that Vaillant carry out the commissioning and guarantee process or one of their Vaillant Advance installers to ensure full manufacturer warranties. RBHDC to witness.
 - Please print this drawing out to A1 or A0 for clarity.
 - All hot water to be wired for priority, PDHW circuit. Cylinder coil is estimated at 40kW. Max flow speed for the coil at 10DT is 3.5 m³/h.
 - Please ensure that the Reflex Servitec Mini vacuum degasser unit is also supplied with a water make up unit.
 - All existing circuits to be fully flushed with mains water. A report on the viability of existing radiators must be presented to the design team once they are drained and cleaned. It is likely that some will need to be completely replaced if they are corroded beyond reasonable reuse.
 - There is a 25 gallon feed and expansion tank on the top floor of the building. This is to be removed and the system sealed. The new 150 litre expansion can either be installed here or in the plant room, with the existing cold feed removed.

LEGEND

- GAS LINE
- COLD WATER HARD
- COLD WATER SOFT
- HOT WATER FLOW
- HW SECONDARY RETURN
- - - CH FLOW
- - - CH RTN
- TOWEL RAIL CIRCUIT
- DISCHARGE

- PUMP
- ISOLATION VALVE
- NON RETURN VALVE (NRV)
- MOTORISED ACTUATED VALVE
- HAND ACTUATED VALVE
- AAV
- AUTO AIR VENT
- DRAIN
- PRESSURE REDUCING VALVE
- WATER SOFTENER
- FLOAT VALVE
- Y-STRAINER
- BUTTERFLY VALVE

1	20/08/2020	Amendment for Vaillant pump sets.
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No.	Date	Revision Notes
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DRAWINGS & SPECIFICATIONS
supplied by:

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Project Title
**Plant Room Schematic
Ware Council
Hertfordshire**

Sheet Title
The Priory, Ware

Project Manager Rob Berridge	Project ID The Priory, Ware
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Drawn By Rob Berridge	Scale NTS
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Reviewed By RBHDC	Sheet No. Sht-1
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