

Upper Field

100mm Insulated 6000 litre tank with ball valve level sensor on concrete base

Pipe Run

Pipes buried 1m deep and insulated within 2m of building foundations Insulated when less than 1m deep

Stable Block Plant Room

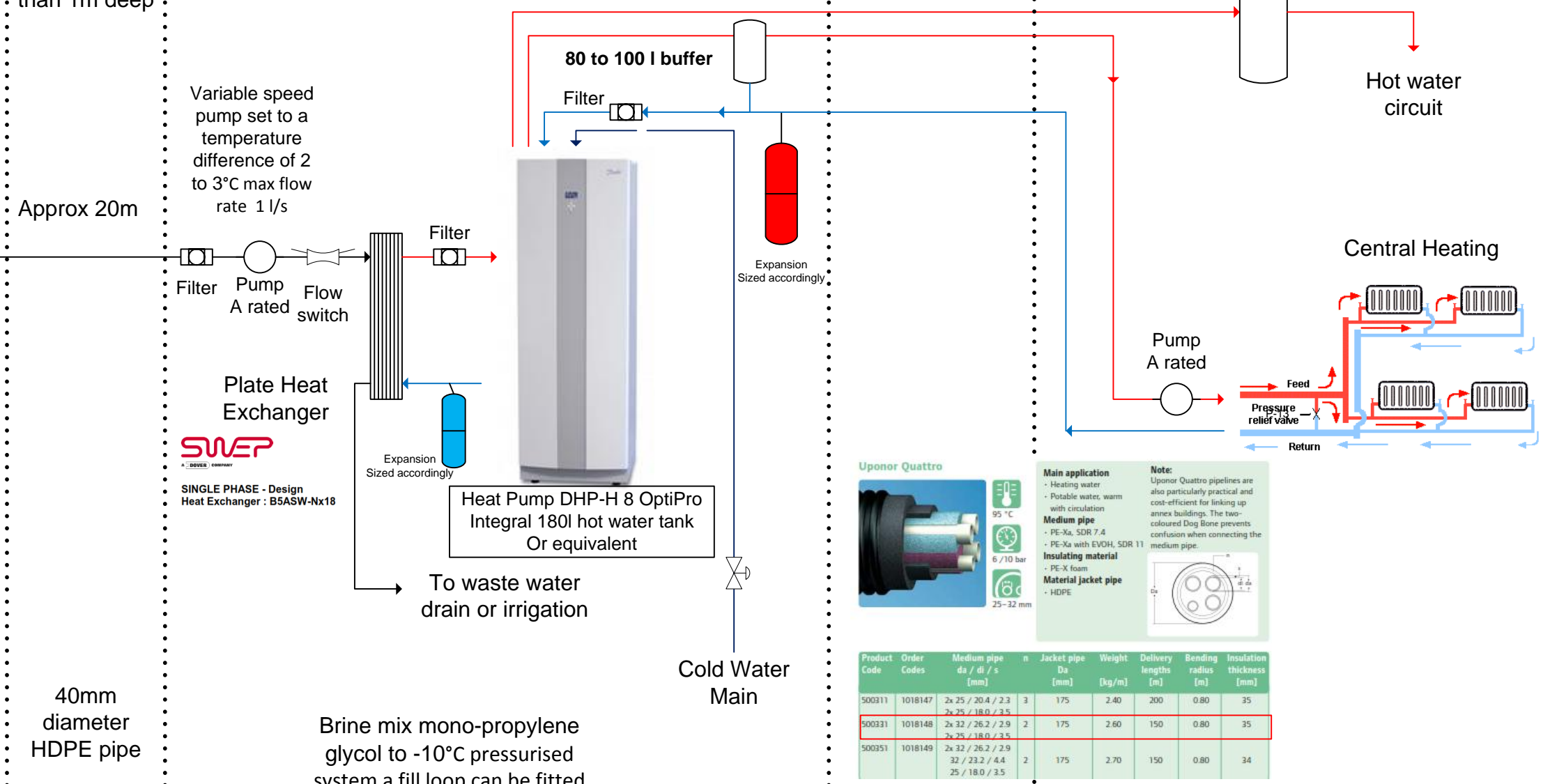
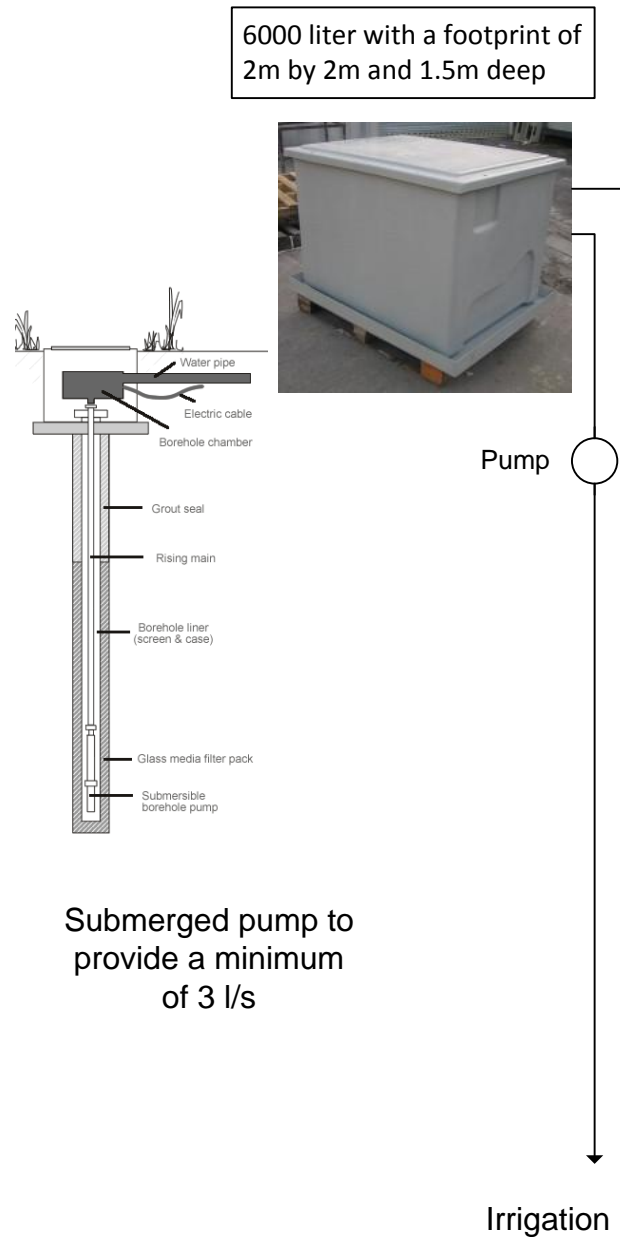
Notes:
All Pipe work to be insulated to building regulations, this is an unheated space.
All major equipment pipe work to have isolation valves [not shown]
See documentation and manufacturers guides for major equipment specifications

House Run

25m Preinsulated 4 core heat main internal diameters 26.2mm for heating and 18mm for hot water

Main House

G3 compliant hot water tank 80 to 100 litre volume with 3kW immersion heater on thermostat and time control



Uponor Quattro

95 °C
6 / 10 bar
25-32 mm

Main application
- Heating water
- Potable water, warm with circulation

Medium pipe
- PE-Xa, SDR 7.4
- PE-Xa with EVOH, SDR 11

Insulating material
- PE-X foam

Material jacket pipe
- HDPE

Note:
Uponor Quattro pipelines are also particularly practical and cost-efficient for linking up annex buildings. The two-coloured Dog Bone prevents confusion when connecting the medium pipe.

Product Code	Order Codes	Medium pipe da / di / s (mm)	n	Jacket pipe Da (mm)	Weight (kg/m)	Delivery lengths (m)	Bending radius (m)	Insulation thickness (mm)
500211	1018147	2x 25 / 20.4 / 2.3 2x 25 / 18.0 / 3.5	3	175	2.40	200	0.80	35
500331	1018148	2x 32 / 26.2 / 2.9 2x 25 / 18.0 / 3.5	2	175	2.60	150	0.80	35
500351	1018149	2x 32 / 26.2 / 2.9 32 / 23.2 / 4.4 25 / 18.0 / 3.5	2	175	2.70	150	0.80	34

Brine mix mono-propylene glycol to -10°C pressurised system a fill loop can be fitted to the mains water supply however leaks should be logged and resolved

Note: All Guages, Air Bleeds, Isolation and check valves are not shown

Drawing Number: Smeeds MH

Revision	Notes	Revision	Notes

ΔE Tacmon Energy

Drawing Title: Smeed's Main House Open Source GSHP System