

Technical Information Sheet

Pond Mats

Features and Benefits

- **High Energy Absorption**
- **Ease and Low Cost of Installation**
- **Compatible with the Whole Kensa Range of Heat Pumps**
- **UK Manufacture**



Product Description

Any large water source situated close to the proposed building to be heated is an ideal energy source for a heat pump.

Using water has a number of advantages as the heat transfer rate from water is higher than that in the ground and the water is in close contact with all of the pipe at all times. The use of a water source removes the need of digging large trenches reducing the cost of installation.

Kensa pond mats are specifically designed to ease installation while maximising the energy absorbed from the water. Approx 300m of pipe is secured to

a corrosion resistant stainless steel frame. This frame can then be weighted down on site to enable them to sink to the bottom of the water source.

The ideal water source has a constant water flow into and out of it, which means the energy held within the water is continually replenished.

The benefit of using a closed loop system in water over an open loop system include a reduced risk of freezing within the heat pump and the reduced maintenance as there is no need for any filtration units.

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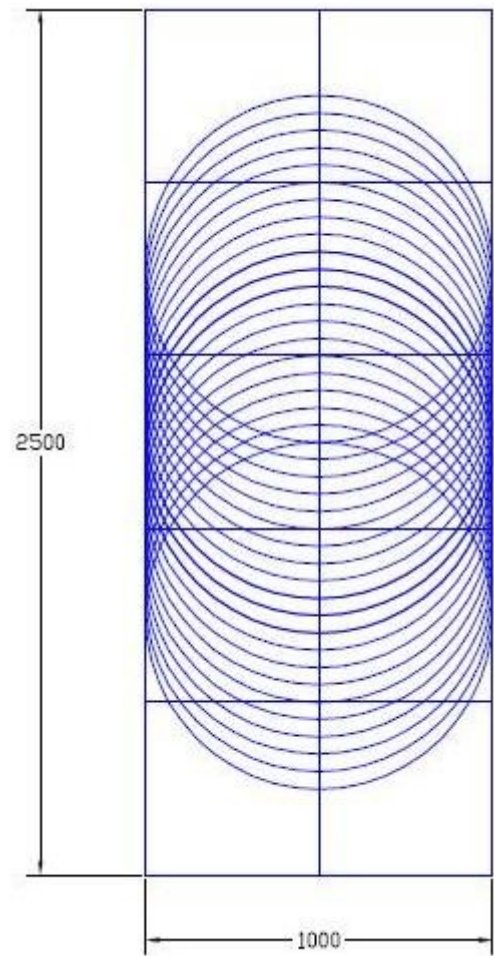
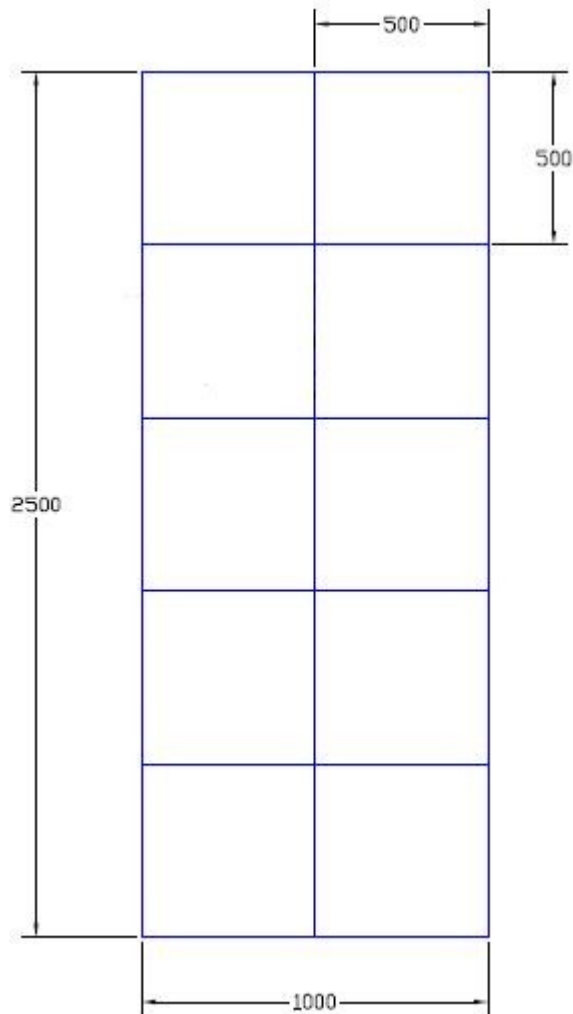
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Frame: Stainless Steel 304L or 316L round bar, TIG welded with self colour finish.

Pipe : 300m of 32mm OD HDPE.

The height of the pond mat depends on the amount of pipe removed from the top of the mat to act as the header pipes, however this should not be higher than 1000mm.

Each pond mat will extract approx 7kW of energy from the water source.

To ensure the correct heat is extracted from the water source it is important that the pond mat is covered at all times.

