

hudu®

Water Under Floor Heating



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System Description

The hudu under-floor water heating system was designed in conjunction with AOG to offer a cost effective and efficient heating solution which is specifically suited to the requirements of our market. This system is based on the AOG's original Ondol design which has been vigorously tested and is in use in many countries around the world.

The hudu solution provides a very real alternative to the conventional "in screed" electrical and water heating systems currently available. In a market where building construction often fails to adequately address the issue of floor insulation, the hudu system remedies this and all the other requirements for a more efficient and cost effective method of under-floor heating.

The hudu system consists of four key components; the under-floor heating panels, a heat source provided by solar collector panels and/or a heat pump, a hot-water storage tank and control system consisting of a manifold, solenoid valves and control panels.

Advantages of the hudu under-floor panels.

- The hudu Panels are pre-engineered with purpose designed connections to avoid the need for welding .
- The hudu Panel is laid on top of the screed. It avoids the time consuming laying of pipes in the screed and is easy to fix or replace.
- The Panels are ultra light and suitable for installation on existing flooring.
- The Panels are fitted just before the tiling, wood flooring or carpeting is laid, and so minimizes the potential for damage in the finishing process.
- The insulation in the Panel minimizes heat loss into the screed. This can provide significant efficiency improvements of up to 30% over conventional under-floor heating.
- The Panels provide a load resistance of 45kg/cm² with good sound damping properties.
- The Panels avoid the use of electrical current.
- The combination of a high heat conductivity and insulation enables good under-floor heating at relatively low water temperatures, to provide significant savings in energy costs.



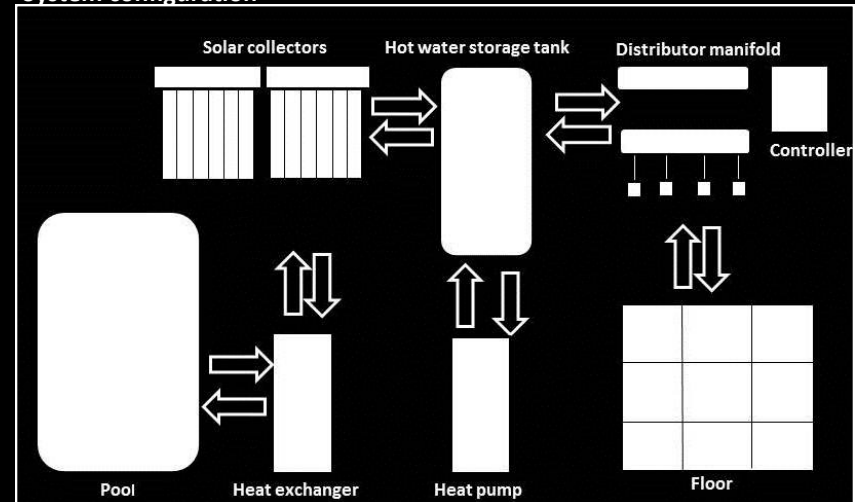
Specifications

- 24mm panel (recommended)
XPLE pipe Cross-linked polythene, commonly abbreviated as PEX
Temperature range -32° to 140°C
- Pressure max 684Kpa
- 15mm panel (small / retro)
EVA Ethylene Vinyl-Acetate

Operating Settings

- Operating pressure 150Kpa
Incoming temperature settings 45°C to 65°C

System configuration



Panel configuration

