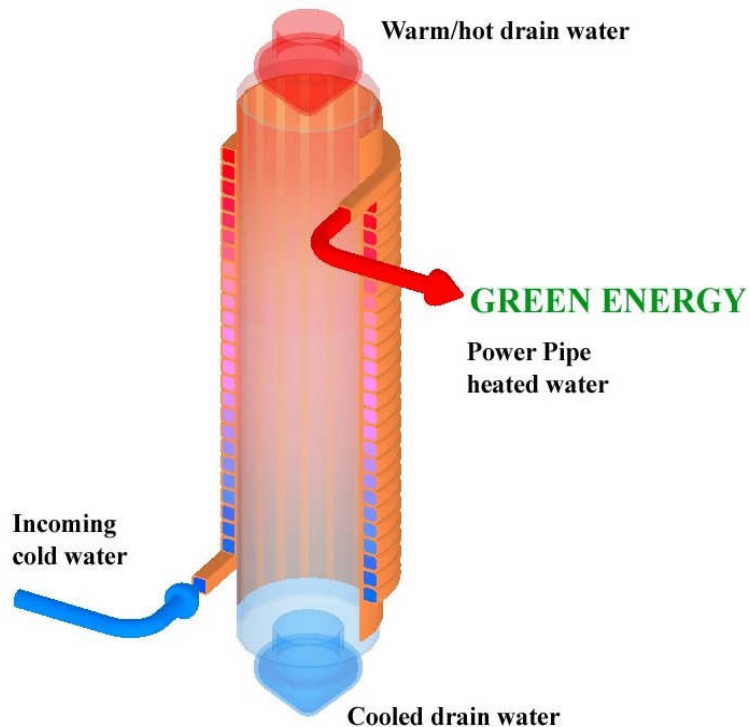


Power-Pipe™

Waste Water Heat Recovery Systems

Approximately 80-90 percent of all hot water energy goes down the drain carrying with it billions of kWh and billions of pounds/euros. Much of this wasted heat/energy can be recovered using **Power-Pipe™** technology.

"There is a huge amount of energy to be mined from our waste stream", **Power-Pipe™** is long lasting, has no moving parts and requires no maintenance, so it will return your investment quickly and provide continuing energy cost reductions in any location using the hot water dumped in your drain.



Power-Pipe™ is a very simple plumbing device that has no moving parts, is self-cleaning, and works on existing water pressure and gravity. Some units **can recycle over 60%** of the heat in hot wastewater going down the drain and **can triple electric water heater capacity**.

Power-Pipe™ also has tremendous potential in commercial and industrial applications where a large volume of hot processing water is used.

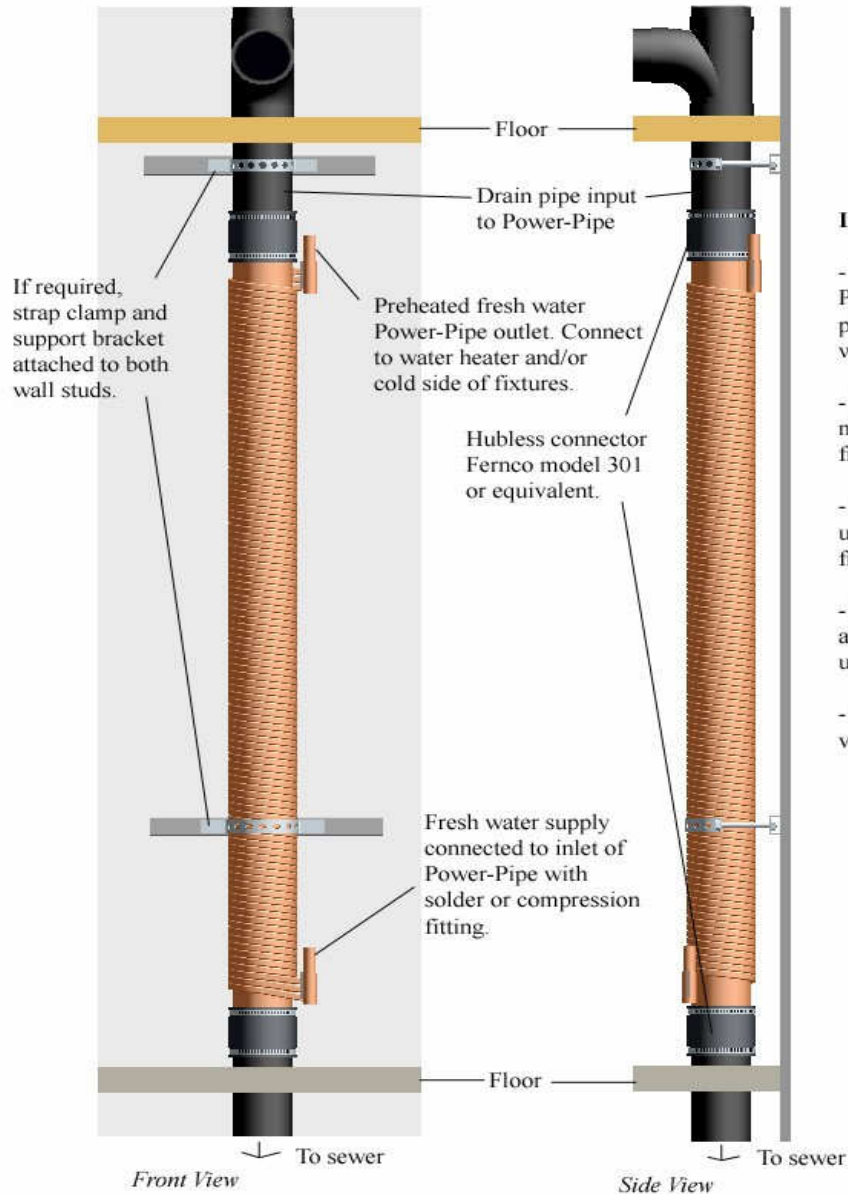
Power-Pipe™ replaces a section of vertical drainpipe with an all copper heat exchanger. The heat exchangers consist of 76.1mm and 108mm diameter by 1500mm lengths of copper drainpipe with 15mm or 22mm tubing coiled tightly around them.

As hot water is used, it goes down the drain clinging to the inside surface as a thin film that efficiently transfers the heat through the copper drain line to the cold water, as it simultaneously flows up through the **Power-Pipe™** coils.

50-85% of the heat can be transferred to the cold supply water through the copper without contamination. The heat transfer significantly preheats the incoming water, therefore reducing the work of the water heaters and cutting the amount of energy/money spent to heat water.

Full technical back-up and design service available

Power-Pipe™ Installation



Installation Recommendations:

- Vertical supply drain pipe into Power-Pipe unit to be at least 2 pipe diameters from any horizontal waste pipe.
- Insulate pipes as desired to minimize heat loss, protect from freezing, or for sound deadening.
- Insulate lower half of Power-Pipe unit to prevent condensation, as fresh water is still cool at this point.
- To maximize performance, order and install the longest Power-Pipe unit that will fit into the drain system.
- Power-Pipe unit must be installed vertically.

Breaking News

Power-Pipe™ has just been approved for



funding under the **Innovation Programme** and is to be installed in a number of Housing Association Projects in UK over the next 18 months.

This is a clear acceptance of the potential for WWHR systems in the UK. The system has already been successfully introduced to commercial and high-rise residential projects throughout North America and is proving to be a sound investment with 'payback' on equipment investment as low as 2 to 5 years.

Power-Pipe™ is an important new cost effective measure to add to the current basket of energy efficiency solutions for the UK building sector.

All enquiries to



**energy
superstore**

028 9038 8391