

AIR TO WATER HEAT PUMP

Extracts heat from the outdoor air to provide space heating (via radiators or underfloor heating) plus domestic hot water.

OUR BACKGROUND

- We have always had a gas boiler to heat our home and our water.
- We live in a solid brick semi-detached house (early 1900s)
- We had already installed 13 solar panels on the house roof (south-facing) and two 9.5kW batteries.
- The boilers we inherited in our recent house move (one for central heating and one for hot water) were unreliable, being 12 years old and 20 years old respectively.

After much deliberation and research, we decided to replace our boilers with an air to water heat pump.

The works took 3 days and were completed on 5th February 2026.

WE WERE ADVISED TO INSTALL:

- 150LTR CYLINDER
- 8.5KW MITSUBISHI ECODAN HEAT PUMP
- 5 RADIATORS UPGRADED
- SOME UNDERFLOOR PIPEWORK UPGRADED



THE BIGGEST ADVANTAGE FOR US

REDUCTION IN ENERGY BILLS

- We have been on a tariff that allows us to charge our batteries at cheaper rates 3x per day for 8 hours per day (Octopus Cosy).
- It's more efficient than a gas boiler. 1kW used can give up to 4kW of heat.
- Because the heating is on 24/7, the house never gets cold. This means that there is no surge of power in the mornings to reheat the home.
- We are now free of gas so removal of the gas meter means no gas standing charges. We save approximately £125 per year.

ANOTHER BIG ADVANTAGE

KINDER TO THE PLANET

- There are no onsite carbon emissions or harmful pollutants.
- It uses heat from the air which is an energy source that is:
 - ✓ Natural
 - ✓ Renewable
 - ✓ Sustainable

OTHER ADVANTAGES

- More comfortable home.
- An app allows us to control everything and monitor the system.
- The cost to us was virtually the same as our highest quote for a new gas boiler installation.
- It has integrated with the central heating and domestic water system we already had.

DISADVANTAGES

- Space needed indoors for the cylinder (if you don't already have one).
- Space needed outdoors for the heat pump.
- Disruption when pipework and radiators are upgraded.
- Some low-level noise from the outside heat pump when running (silent when idle).



It has produced 3.36kwh of heat for every 1kwh of electricity consumed
=

336% efficiency

OUR ADVICE

TO ANYONE INTERESTED IN AN AIR TO WATER HEAT PUMP

- Obtain at least 3 quotes from recommended installers.
- Choose an installer that will perform and evidence room by room heat loss calculations showing how these correlate to the system they advise.
- Think about where you can store the cylinder and heat pump before an installer visits your property.
- If you have no other gas appliances, as soon as it's installed, contact your energy provider to have your gas meter removed to avoid any unnecessary standing charges.

As of 20th April, our energy cost
for this month so far is

£1.67

including standing charge