



ADVANCED MAINTENANCE UK LTD

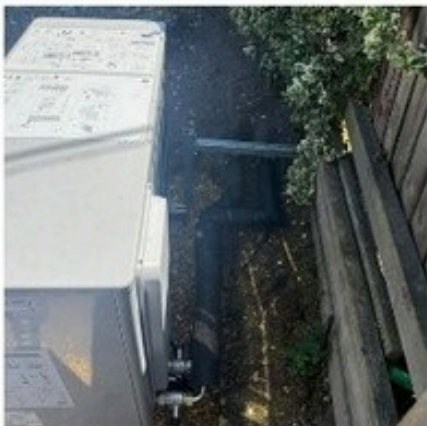
Heating, Plumbing, Ventilation, Renewables

CONTACT US

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Case Study: Air Source Heat Pump Upgrade, Christchurch



Air Source Heat Pump Upgrade, Christchurch



➤ Background

As part of a housing provider's strategy to upgrade heating systems and improve energy efficiency, the existing Mitsubishi Electric air source heat pump and vented hot water cylinder at a property in Christchurch was identified for full replacement. The property required a modern, efficient, and fully compliant system, with remedial works to radiators and electricals to ensure performance and long-term reliability.

➤ Scope of Works

Advanced Maintenance UK Ltd delivered a full end-to-end installation, including:

- **Decommissioning & Removal:** Isolated, drained, disconnected, and safely disposed of the existing Mitsubishi Electric ASHP and vented hot water cylinder.
 - **New System Installation:**
 - **Outdoor Unit:** Vaillant aroTHERM Plus 3.5kW ASHP, relocated approx. 4–5m from original position, with upgraded 28mm copper primary flow and return pipework mounted on Unistrut cantilevers.
 - **Indoor Unit:** Vaillant pre-plumbed 150L heat pump cylinder.
 - **Controls:** Vaillant sensoCOMFORT VRC 720F wireless controller with myVAILLANT connect & VRA42 pack.
 - **Filtration & Water Conditioning:** ADEY MagnaClean HP filter (28mm) and ADEY MagnaScale 2 installed on cold main.
 - **Insulation & Containment:** Indoor Armaflex 19mm wall insulation, Primary Pro outdoor containment.
 - **Frost Protection & Water Treatment:** Altecnic I-stop antifreeze valves, full system flush with MC5 cleaner, and treatment with ADEY MC1 & MC10+.
 - **Electrical Upgrades:** Relocation of rotary isolator, new Type B RCD enclosure and alterations inside existing consumer unit, with full electrical test certification issued.
 - **Heating Distribution:** Replacement of four radiators (hall, bathroom, living room, bedroom) with compact K2 models, sized for efficiency and comfort.
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Air Source Heat Pump Upgrade, Christchurch



➤ Outcome

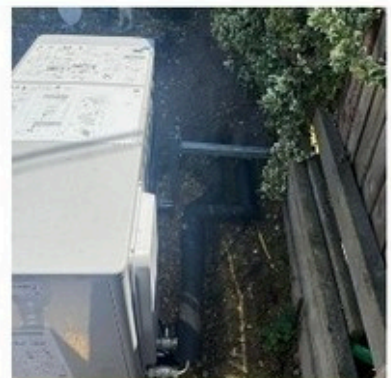
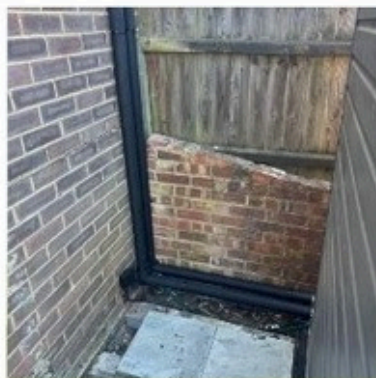
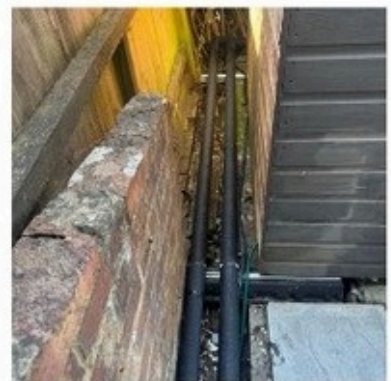
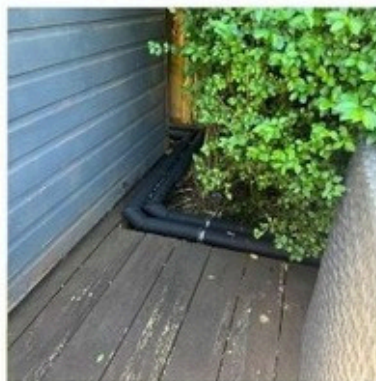
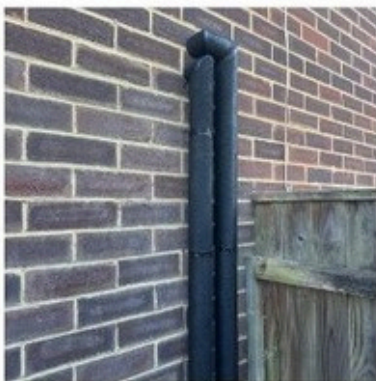
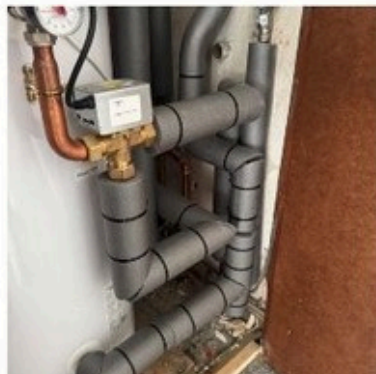
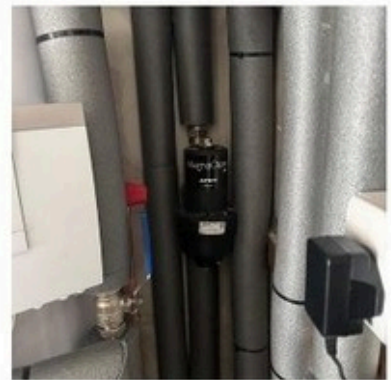
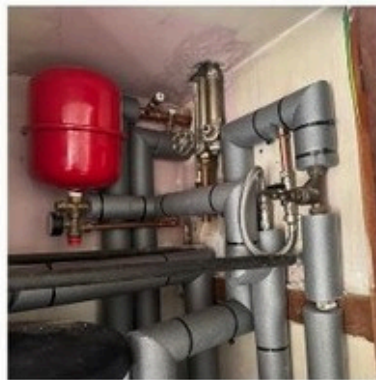
The works provided the client with a modern, efficient, and compliant heating solution:

- **Performance:** The Vaillant aroTHERM Plus 3.5kW system delivers reliable, efficient heating and hot water, supported by upgraded radiators and controls.
- **Compliance:** Installation completed to MCS standards with parts and labour warranty, manufacturer registration, and electrical test certification.
- **Tenant Benefit:** Improved comfort, reduced energy bills, and quieter, more efficient operation.
- **Documentation:** Full photographic evidence and compliance documentation provided through Simpro.

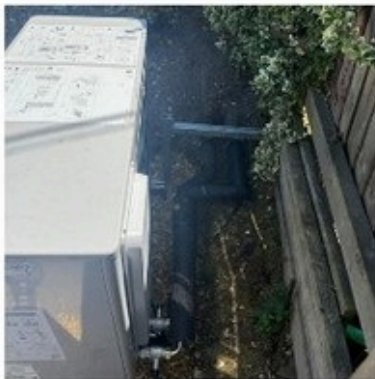
➤ Client Benefits

- **Safe transition** from old, inefficient system to a modern ASHP.
 - **Audit-ready documentation** including MCS warranty and electrical certification.
 - **Reduced running costs** through improved efficiency.
 - **Future-proof system** with smart controls and long-term reliability.
 - **Minimal disruption** works coordinated to maintain site safety and access.
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Contact Us



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