

Home Energy Grants: Technical Bulletin – Heat Pump Systems

Documentation Handling and Water Pipework Guidance

Series 2024-04-001

Content Overview for Heat Pump Bulletin

This technical bulletin outlines the most frequent non-compliant items noted by SEAI inspectors on heat pump system installations. Guidance on correct handling/installation of these items in this document are designed for Contractors with the aim of reducing the number of reworks and subsequently lead to a more efficient Programme with faster turnaround time for payments.

It is important to note that all aspects of the installation of heat pump systems must be as per the Domestic Technical Standards and Specifications (DTSS) document and in accordance with the Contractors Code of Practice.

Please see the Contractors Support page for further information which may aid Contractors in achieving high compliance on the Better Energy Homes Programme: https://www.seai.ie/grants/supports-for-contractors/.

Non-Compliances and Guidance covered in Technical Bulletin:

- 1. Commissioning documents not available/correct & RECI cert not present/correct upon Inspection.
- 2. Guidance on correct installation of Pressure Relief Valve Pipework
- 3. Guidance on correct installation of Condensate Discharge

Commissioning and Handover

Details of Non-Compliance

The absence of heat pump documentation is responsible for the highest number of inspection reworks. This is a frequently reoccurring item which results in unnecessary long delays to grant payments and contractor works.

The Homeowner must be provided with the following documentation upon installation of the heat pump system for the purposes of a possible pre-pay or post-pay inspection, where required:

- Register of Electrical Contractors (RECI) Certificate
- Heat Pump Commissioning Certificate
- User Manual
- F-Gas Certificate (if applicable)
- Ground and water collector design (if applicable)

The most frequent documents which are absent upon an inspection, and subsequently cause reworks, are the **Commissioning Documents and Register of Electrical Contractors Ireland (RECI) Cert.** As an appointed Contractor for a grant aided heat pump system installation, it is your responsibility that all necessary pieces of documentation are handed over to the Homeowner prior to signing the Declaration of Works (DOW) forms.

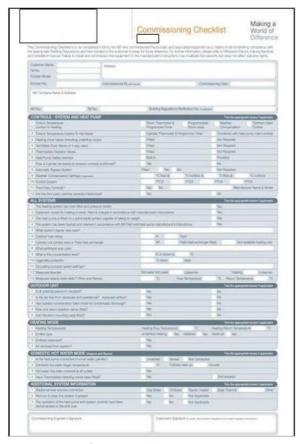


Figure 1: Commission Cert



Figure 2: RECI Cert

Tips to Reduce Occurrence of Documentation Non-Compliance

In order to reduce the occurrence of these non-compliances in relation to documentation on heat pump installations, the following mitigation measures are suggested to ensure documentation is handled correctly and the Homeowner is well informed of the same.

Documentation Handover to Homeowner for Inspection Purposes

It is recommended that all three steps below are taken with Homeowners following the installation of a heat pump system.

- 1. Leave Physical Copy of Necessary Documentation: Firstly, the Contractor should leave a physical copy of all necessary documents (as mentioned above) with the Homeowner and inform the Homeowner that they may be subject to a pre-pay or post-pay inspection from SEAI. Should that particular Homeowner be randomly selected for inspection, they will have to produce this documentation upon request from the Inspector. Please note, failure to produce this documentation may result in delay in payment of the grant or loss of the grant money entirely should the Contractor fail to complete necessary reworks.
- 2. Email a copy of Documentation to Homeowner with the subject line "HEAT PUMP DOCUMENTS FOR SEAI INSPECTION": An email with the necessary documentation attached with the above subject line ensures that even if the Homeowner misplaces the physical copy of the documents, there is a backup copy of the documents on an email which is easily searchable with the above subject line.
- 3. Take a Picture of the necessary documents and send to Homeowner via WhatsApp: The SEAI Inspector just needs to see proof that these documents were transferred from the Contractor to the Homeowner and the Homeowner has access to them. A fast and easy way to prove this to an SEAI Inspector is for the Contractor to take a picture of these documents and send them to the Homeowner via WhatsApp. The Contractor must, again, inform the Homeowner that upon inspection they can show the picture of the documents received from the Contractor via WhatsApp.

Pressure Relief Valve Pipework

Details of Non-Compliance

Following non-compliances associated with documentation, the next most prevalent non-compliance found on inspections surrounds the incorrect installation of Pressure Relief Valve Pipework.

List of Non-Compliance items which are being picked up at inspections:

- Water Pipework (Pressure relief valve pipework not installed to good plumbing practice)
- Water Pipework (Pressure relief valve not pipped to safe and visible areas)
- Condensate Pipework (Condensate not discharging to a drain or soakaway)

Water Pipework – Pressure Relief Valve Pipework not installed to Good Plumbing Practice

Non-Compliant Practice for Pressure Relief Valve Pipework

No tundish installed on the safety pipework leading from the Pressure Relief Valve therefore there is no apparent outlet for Homeowners to observe any discharge from the safety valve.

Correct Practice for Pressure Relief Valve Pipework

Install a tundish to the internal pipework leading from the Pressure Relief Valve so there is a visibility point for the Homeowners to observe any discharge



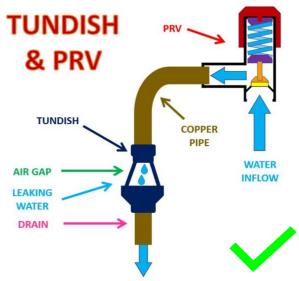


Figure 3: Example of correct installation of tundish on PRV

Water Pipework – Pressure Relief Valve Not Pipped to Safe and Visible Areas

Non-Compliant Practice for Pressure Relief Valve Pipework

Pressure Relief Valve Pipework not terminating safely at point of termination outside (plastic discharge pipe)



Figure 4: Incorrect Installation

Correct Practice for Pressure Relief Valve Pipework

Ensure Pressure Relief Pipework terminates through exterior of building through metal discharge pipework and to a safe and visible area



Figure 5: Correct Installation

Condensate Pipework - Condensate Not Discharging to Drain or Soakaway

Non-Compliant Practice for Condensate Pipework

Condensate water from external heat pump unit discharging onto the surface underneath the unit. No drain access provided.



Figure 6: Incorrect Installation

Correct Practice for Condensate Pipework

A correctly plumbed drain is required from the heat pump system for disposal of condensate and potential discharge from the safety valves' tundish

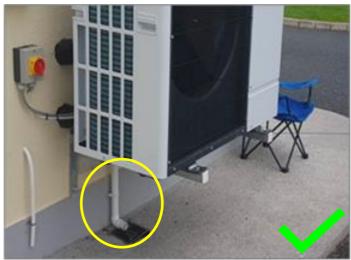


Figure 7: Correct Installation

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