

A. RATIONALE

The Greener Homes Scheme Phase III provides financial assistance to homeowners who intend to purchase a new renewable energy heating system for an existing home. The scheme is administered by The Sustainable Energy Authority of Ireland and aims to increase the use of sustainable energy technologies within Irish homes. The objective of the equipment registration process is to promote quality in the marketplace and maintain consumer confidence to support the continuing deployment of renewable heat pumps in Ireland and to facilitate the administration of the scheme. The equipment registration process is managed by SEAI's Renewable Energy Information Office.

B. CONDITIONS FOR EQUIPMENT REGISTRATION

The Greener Homes Scheme Phase III provides support towards heat pump systems using the ground/water/air as a heat source for central heating. Only registered equipment will be eligible for use under the Greener Homes Scheme Phase III. This list of registered products will be maintained on SEAI's Greener Homes Scheme Phase III website at:

<http://www.seai.ie/greenerhomes>

In order to be eligible for support under the grant, the equipment to be installed should meet the following criteria:

B.1. Definition of eligible product and identification:

The eligibility applies to heating-only heat pumps using one of the following ambient heat sources for central heating purposes:

- outdoor air;
- the ground;
- ground water or surface water (river, lakes, etc.).

The following types of heat pump systems are not eligible for funding under the scheme:

- comfort air conditioner (factory-made units intended to produce cooled air for air conditioning);
- heat recovery heat pumps using waste heat from ventilation as a heat source;
- heat pumps producing sanitary hot water only.

The use of refrigerant with a low level of Global Warming Potential and no Ozone Depleting Potential are favoured. HCFC (e.g. R22) cannot be used in new equipment since 2001.

The equipment registration process covers the heat pump as such, not the systems for heat collection or heat distribution associated to the heat pump.

Verification of compliance:

A clear description of the heat pump(s) presented for registration must be provided with sufficient details to be able to identify the heat pump type (identification name or number, construction details, sizes, etc.), their intended application and general considerations for their use in a heat pump system.

B.2 Performance and reliability:

For registration, a heat pump shall meet the following requirements:

- tested according to the EN standard 14511, or EN 255 for heat pumps tested prior to July 2004, by a laboratory accredited for testing according to the relevant standard;
- performance criteria when tested according to one of the above standards at the operating points defined below:

<i>Type of Heat Pump</i>	<i>Heat Source Temperature</i>	<i>Minimum COP at Heat Sink Temperature = 35 °C</i>
Brine/Water	Brine = 0 °C	4
Air/Water	Air = 2°C	3
Water/Water	Water = 10 °C	4.5
Direct evaporation	Ground = 4 °C	4

- EN 14511-4;
- EC directives for CE marking:
 - o Electromagnetic Compatibility (EMC): 89/336/EEC.
 - o Low Voltage Directive (LVD): 73/23/EEC, 93/68/EEC.
 - o Pressure Equipment Directive (PED): 97/23/EC § 3.3.

Verification of compliance:

A copy of the report(s) of testing according to EN 14511 (or EN 255) demonstrating that the above performance requirements are met shall be provided for each heat pump to be registered (see section B.3 for heat pump line registration). The test report shall be from a laboratory accredited for testing according to the above standard.

The report shall identify clearly:

- the name and contact details of the testing laboratory;
- the standard used for testing;
- the name and details of the manufacturer;
- the heat pump product covered by the test;

- the test results must be unequivocal.
- The test report shall be dated and signed.

Please note that if the heat pump is listed under the DACH label official listing at the date of registration, the registration can take place without the provision of the test reports by the manufacturer or its Irish agent. The compliance criteria defined in section B.3 above are similar to the criteria in force to obtain the DACH label in application in Austria, Switzerland and Germany. See http://www.pac.ch/pac_061.html

With regard to compliance with CE marking, a declaration of conformity signed by the manufacturer which confirms that all the requirements of the appropriate EU directives are satisfied.

B. 3 How to get a line of heat pumps registered?

A line of heat pumps belonging to the same type can be registered without the necessity to demonstrate compliance for every single heat pump in the line. A type is generally defined as heat pumps with the same specifications for materials, sub-components, configurations with the only difference being their heating capacity. In order to get a range of heat pumps registered, the following options are possible:

- compliance with the above requirements is demonstrated for one product representative of the smaller section of the line and one product representative of the larger section of the line;
- compliance with the above requirements is demonstrated for one product of the line and the whole line is certified by Eurovent or an equivalent recognised certification body.

B.4 System Documentation:

An installer instruction manual in **English** should be provided with the application to register under the Greener Homes Scheme Phase III. The instruction manual shall at least contain the following information (as per EN 14511-4):

- the general description of the heat pump
- the performance characteristics (heating capacity, effective power input and COP; nominal flow rates, etc.)
- electrical characteristics
- operating range;
- instructions:
 - o physical description:
 - refrigerant and compressor(s);
 - starting current;
 - air and/or liquid circuits (flows for heat source and heat sink systems);

- additional heating devices, control and safety devices;
- instructions for installation:
 - required site conditions
 - requirements of physical layout, access and clearance;
 - requirements for the electrical, liquid, air and refrigerant connections, to be made on site, including hydraulic schematic and electric diagrams;
 - location of warning and tripping devices;
 - installation precautions to be taken to ensure correct circulation of the heat transfer media, water draining, cleanliness of heat exchange surfaces, to minimise noise, vibration or other adverse effects;
 - specifications for any materials which are in contact with water or brine (ground or water heat sources);
- instruction for maintenance.

The heat pump system installed shall be accompanied by the relevant documentation concerning personal safety, maintenance and operation of the product. This documentation shall be made available in **English** to all customers who purchase the heat pump system.

Verification of compliance:

A copy of the installer instruction manual and customers' documentation in English shall be provided with the application for registration under the Greener Homes Scheme Phase III. These documents shall be directly relevant to specific heat pump types and models submitted for registration.

C. HOW TO APPLY FOR EQUIPMENT REGISTRATION?

C.1. Who can submit an application?

The application for equipment registration can be submitted by the manufacturer or one of its designated agents in Ireland. If the application is submitted by a manufacturer who is not based in Ireland, an Irish agent must be identified as a local contact during the application process.

C.2. How to submit an application?

Before applying, ensure that the attached form is fully completed and that all required documents are enclosed with the application submission (see checklist). You can then submit your application by post to:

Joe Jolley.
Sustainable Energy Authority of Ireland
Renewable Energy Information Office
Unit A
West Cork Technology Park
Clonakilty
Co. Cork

If the information above is available electronically, you are welcome to supply it by email to joe.jolley@reio.ie as well as by post. If you need further information, please do not hesitate to contact Joe Jolley at +353 (0)23 8863394.

C.3. How long does the registration process take?

Upon receipt of an application, you will be notified within 5 working days if any information required to complete the registration process is missing. Once the application file is complete, the registration process will be completed within 15 working days.

If the application is successful, the equipment will be included in SEAI's list of registered products at the next update of the list. This list is generally updated every 10 to 15 working days.

D. HOW TO BE LISTED AS A SUPPLIER?

Designated Irish suppliers of a particular product can be listed under each manufacturer's section within the list of registered equipment. This is to facilitate consumers identifying companies supplying a particular product for information, quotation and procurement.

To register as a supplier, please fill in your contact details in the form attached and return it to SEAI-REIO (contact details in C.2). This shall be accompanied by a signed declaration from the manufacturer of the relevant registered equipment, or its main distributor, stating clearly that your company is recognised as one of its agents.

The list of suppliers is limited to 10 companies for each manufacturer's section.

Application Form

1. SUPPLIER DETAILS

Name: _____

Address 1: _____

Address 2: _____

Address 3: _____

County: _____

Tel: _____ Mobile: _____ Fax: _____

Email: _____ Website: _____

Contact persons:

Company director(s): _____

Sales representative(s): _____

2. SALES:

Please indicate your sales figures, in number of heat pump units supplied or installed directly by your company in Ireland. This information is to be used for statistical reasons only and will be treated confidentiality.

<i>Heat Pump Type</i>	<i>Supplied¹</i>	<i>Installed²</i>
	2004	
Air source		
Water source		
Ground source		
	2005	
Air source		
Water source		
Ground source		
	2006	
Air source		
Water source		
Ground source		

¹ Units supplied to other companies

² Units installed directly by your company

4. WARRANTY

Please declare length of warranty (parts and labour) your customers are offered on the heat pumps supplied by your company. Minimum requirements for registration are 2 years for the heat pump.

Heat Pump: years.

5. DECLARATION

Please sign and date the following declaration.

I/we confirm that the information submitted in the application form is correct to the best of my/our knowledge. I/we accept that the final decision on whether a specific appliance is registered under the Greener Homes Scheme Phase III is at the discretion of SEAI.

Name: _____

Authorised Representative of: _____

Signature: _____

Date: _____