Waterford Stanley Renewables

Making the switch from your oil or gas central heating system to a clean energy Air to Water Heat Pump.

# Air to Water Heat Pumps

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Air to Water Heat pumps are central heating systems that are an extremely efficient and cost-effective method of heating your home.

Stanley's Heat pumps are suitable for both new build homes and home heating retrofits.They offer an efficient alternative to standard boilers and the **Stanley Smart System** allows remote access to the heating system via website, remote or app to allow maximum control.

At Stanley our Heat Pumps come in Spit or Monobloc models that range from 2kW to 12kW and come in a number of different sized Internal units. We also supply and design underfloor heating.

## Suitable for:

New Build Homes

Home Heating Retrofits

## Features

- Capacity: Variable 2kW to 12kW
- Floor Area: Up to 275m$^2$
- LWT: up to 60ºC
- Options: Split or Monobloc

# Considerations before changing to an Air to Water Heat Pump

## Can I install a heat pump into an existing home?

Yes, heat pumps can be installed to an existing house. Before any installation, a full home survey should be carried out by a trained assessor to ensure the suitability of the house and to identify any additional required insulation measures.

For a heat pump to work at its most efficient, your home needs to be well insulated to prevent as much heat from escaping as possible. For that reason, installation is often done in combination with a fabric retrofit to improve the building's energy performance.

Every home is different. The key to selecting the right heat pump for your home is accurate assessment of the heat that will need to be transferred into your home for heating. This needs to be carried out by experienced and qualified specialists.

SEAI also offer insulation grants to facilitate this. There are also deep retrofit programmes available which help homeowners make the most cost-effective choices to achieve an 'A' energy efficiency rating standard.

## Where does the Heat Pump need to be installed?

The internal unit can be installed inside the house in the utility room or hot press, replacing the existing hot water tank. Heat pumps are quiet enough to allow this. This saves on both installation and running costs.

The external unit or Air to Water Heat Pump is located outside the house not too far from the internal unit. The heat pump is always going to be more cost effective to run if placed near where it and or the hot water is used. If possible, place the heat pump inside the house in the utility room. This saves on both installation and running costs.

## Will my electricity bill be more expensive?

Yes, if you currently use non-electric heating, you will have a bigger electricity bill, but no oil or gas bill. This is because the heat pump uses electrical power to gather free heat energy from the source, but your overall expenditure on energy will be considerably less.

Gas Boilers will have an efficiency of up to 97% and Oil Boilers up to 95% however the efficiency of a heat pump can be above 400%.

# Are there any Grants available?

**SEAI** currently offer a grant of an Air to Water Heat Pump Grant of **€3,500** (apartment) and **€6,500** (Semi-Detached/End of Terrace/ Detached/Mid Terrace) towards the cost of installing a heat pump system in homes built before 2011.

To find out more, or to check your eligibility, visit:
**https://www.seai.ie/grants/home-energy-grants/heat-pump-systems/**

# 4 Steps to a more Sustainable Heating Solution

## Step 1 : Home Survey

Before any installation, a full home survey should be carried out by a trained assessor to ensure the suitability of the house and to identify any additional required insulation measures.

If you wish to avail of the SEAI grant and gain an understanding of the measures, you will require the services of an SEAI Registered Technical Advisor. They will carry out a technical assessment of your home and will advise you on what steps you need to take to make your home heat pump ready.

**https://www.seai.ie/grants/find-a-registered-professional/SEAI-Registered-Technical-Advisors.pdf**

## Step 2 : Submit Your Survey

When the technical advisor has completed their report, we would need to analyse the heat loss on a room-by-room basis and make sure the radiators and/or underfloor heating have the required output.

Once you have this, please submit the survey to Waterford Stanley **sales@waterfordstanley.com** and we can provide you with the following:

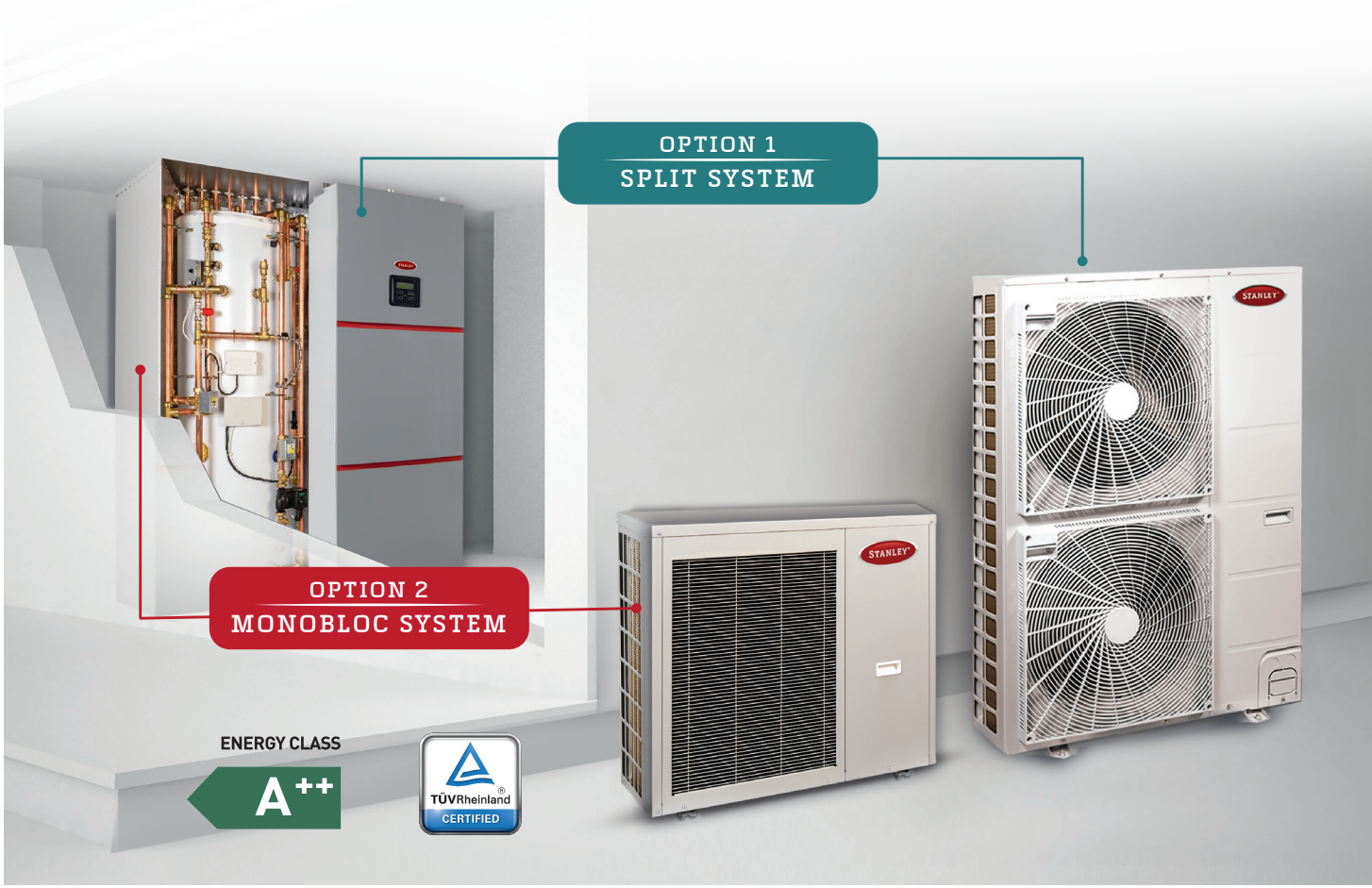
- **Heat Loss calculations**
- **Underfloor Heating Design & Supply**
- **Pricing of Monobloc or Split Heat Pump, based on your heat output requirements**
- **On-site commissioning**

# Step 3-4 :

# Survey Results & Installation

To ensure the Heat Pump works at its most efficient level and to allow you to apply for an SEAI Renewable Grant, your home would need to be insulated to a level where the heat loss will be approx. 50 watts per metre squared or less.

This will come out in the assessment carried out by SEAI Registered Technical Advisor.




1 HOME SURVEY

2 SUBMIT YOUR SURVEY

3 SEAI APPROVAL

4 HEAT PUMP INSTALLATION

# Frequently Asked Questions

## Do I need to have Underfloor Heating or upgrade my radiators?

A heat pump will work more efficiently supplying heat to an under-floor heating system because of its lower operating temperature requirements, however Heat Pumps will also work with radiators.

To make the new system efficient you will likely need some new radiators that are larger than those there at present as they will need to be cooler than before.

Heat pumps are most efficient when they produce lower temperature heat, larger rads with lower temperature can give the same heat output as warmer smaller rads.

Market experience has shown that in most cases the radiators do not need to be changed, however, this can vary and needs to be looked at on a case by case basis.

## Can I keep my existing hot water tank used in conjunction with a Heat Pump?

More than likely your existing hot water tank will not work with a heat pump as the coils contained in the hot water tank will not allow sufficient heat transfer within the tank.

## Do I need Three Phase electricity?

Most Heat Pumps are single phase designed for the Irish climate, bigger buildings will usually need a three-phase supply or else several heat pumps.

## How long does it take to install a heat pump system?

It can take three to eight days to install your air to water heat pump. Timing will depend on the complexity of the system and if you need to replace any radiators in your property.

# Why Choose a Stanley Heat Pump?

## Future proof your home

Warming homes for over 80 years, Stanley believe that everyone should be able to enjoy the cosy benefits of a Stanley. With a proven record in heating Irish homes, we are looking to the future and renewable energy in the form of air to water heat pumps..

**Selected Features**

- Energy Class: A++
- Output to 60ºC (Monobloc)
- Monobloc or Split option available
- Heat Loss calculations
- Underfloor Heating Design
- On site commissioning
- Heat pump certification
- Designer sign-off certification
- SEAI Grant Support
- Remote Diagnostic support
- 7 Year Guarantee
- Built In web module to control heat on the go

## Wide range of Underfloor Heating options

As well as supplying our range of Stanley Air to Water Heat Pumps, we offer an extensive design and support service. Heat loss calculations, heat pump certification, underfloor heating design and designer sign-off certification are all part of our service, to ensure that our product meets the building regulations requirements.

Our underfloor heating comprises top of the range components including Danfoss manifolds and actuators, Heatmiser

Thermostats & Wiring Centres and more.

CO2 EMISSION REDUCTION UP TO 60%

TESTED AND CERTIFIED

REMOTE MANAGEMENT

SAVING UP TO 70% HEATING COSTS

REMOTE DIAGNOSTIC

COP UP TO 6.1* *A7/27

STANLEY 7 YEAR WARRANTY

ENERGY CLASS A++

TÜVRheinland CERTIFIED

ENGINEERED IN EUROPE DESIGNED FOR IRELAND