

*If your heating system is older than 15 years, it might be inefficient and highly energy consuming. Replacing your heating system with a more efficient will help you reduce your energy bill and additionally keep your home more comfortable, improve air quality, increase your home's market value and contribute to reducing global CO<sub>2</sub> emissions.*

60% of the heating appliances installed in the EU are old and inefficient (energy class C or lower)

**60%**

Gas water heaters as well as electric water heaters are mostly labelled with an efficiency rate going from C to A on a scale that goes from F to A+

**A to C**

Among most efficient water heaters are heat pumps with an efficiency ranging from A to A+

**A to A+**

### ✓ CHECKLIST

- ✓ I need a water heating system
- ✓ I want to reduce my energy bill
- ✓ I want a more energy efficient appliance

Water heaters are appliances that provide hot water for domestic use, at defined comfort temperatures. Hot water needs account for 10 to 20% of an average European household energy demand and as such having an efficient solution has quite an impact in the energy bill.

A high variety of water heaters exists on the market, using all energy sources, and thus matching all types of needs. Hot water daily needs patterns critically influence the technology selection between on-demand production and storage water heaters. Moreover, hot water production solutions can also rely on packages, taking advantage of renewable energy technologies, such as solar thermal. These solutions also have an energy efficiency label that can go up to A+++.



## ON-DEMAND OR STORAGE WATER HEATER, WHAT SHOULD I OPT FOR?

On-demand water heaters heat water instantly, while storage water heaters, as its name indicates, include a water tank where the hot water is heated and stored until use.

## DID YOU KNOW?



There are several technologies allowing to heat water efficiently. The most common primary energy sources used to heat water efficiently are gas, biomass, solar thermal, air and ground heat pumps...

Your choice depends on the type of energy you want to use, the type of building, or the hot water needs.

### STORAGE WATER HEATER

- ✓ Provides high flow rates of hot water
- ✓ Hot water is available immediately (depending on pipe length)
- ✓ Provides great comfort in cases of simultaneous use (several people can use the hot water simultaneously)
- ✓ Can use gas, oil, electric resistance heater or an air source heat pump
- ✓ The least efficient solutions on the market are electric storage heaters, usually labelled with a C class.

### ON-DEMAND WATER HEATER

- ✓ Take up less space since no storage tank for hot water is needed
- ✓ Small tank-less can be located right where the water is used
- ✓ Larger instantaneous water heaters are suitable for a single flat or one- or two-family houses
- ✓ Will not run out of hot water in case of an increased unpredictable hot water demand
- ✓ Most of these water heaters run on gas or electricity

### ...and if combining space and water heating would be a better option for me?

Check up on numerous efficient heating technologies options (such as biomass boilers, heat pump, hybrid heating, among others)!



Do not hesitate to consult a professional to find the most suitable heating option for your home.

Where can I find more information about the functioning, installation, national situation, financial help, and other heating systems? Visit:

- |                    |                    |
|--------------------|--------------------|
| <a href="#">EN</a> | <a href="#">ES</a> |
| <a href="#">DE</a> | <a href="#">FR</a> |
| <a href="#">IT</a> | <a href="#">PT</a> |

HARP (Heating Appliances Retrofit Planning) project gathers 18 partners from six European countries. The goal is to motivate consumer to plan the replacement of their old and inefficient heating system, with more efficient and renewable heating solutions. The HARP online tool will help you check the energy efficiency of your current heating system and find a suitable replacement solution based on the most efficient alternatives available on the market. Furthermore, the HARP will straiten your contact with professionals that can support you on the replacement process, as well as provide more information on available incentives. Learn more about energy efficient heating in [our website](#).

