

Eco Energy Systems

Danfoss

The DHP-AQ Air/Water Heat Pump

Savings worth celebrating



www.heatdoc.ie

Hot, cold, clean and on the money

Introducing the DHP-AQ

If you are looking for one of the most cost efficient and reliable ways of heating and cooling your home, look no further. The Danfoss DHP-AQ air/water heat pump is the newest addition to our complete range of high quality products designed to provide trouble-free, environmentally friendly comfort in your home for years to come.

The DHP-AQ stands out with its superior ability to perform at temperatures as low as -20°C. It consistently provides heating, cooling and domestic hot water – with energy savings of up to 75%. In fact, when it comes to seasonal performance, it's the best on the market.

Shhh!

The quietest air/water heat pump around

The unique acoustic design of the DHP-AQ gives you the lowest noise level on the market.





Seasons may change – the performance doesn't

At Danfoss, we are proud to provide you with a pump that offers the best seasonal performance on the market. Seasonal performance is a measure of how efficiently the pump converts energy in the air to heat, which provides heating and domestic hot water. The efficiency is measured over a full year to provide the most reliable numbers that take both summer and winter temperatures into account – we consider it the only relevant measurement of performance.

The efficiency of the DHP-AQ means that you can save up to 75% on your energy consumption if your current heating comes from an oil or gas solution. The heat pump is effective regardless of the outside weather conditions, so even when it is at its coldest outside, you don't have to worry about being cold in your home. And you never have to worry about your energy bill.

Best

Seasonal performance

The DHP-AQ provides the best seasonal performance on the market. There is simply not a more cost efficient air/water heat pump. (see documentation p.6).

Press ON

And relax

Once installed, you never have to think about your heat pump again.

Conveniently comfortable

Here's a fact: once you have decided on a heat pump for your home, you don't want to think about it again for many years to come. Luckily, the DHP-AQ is designed to serve your needs discretely and conveniently:

- Ensures a perfectly adapted indoor environment at all times
- Domestic hot water on demand all the time and in the quantities you need
- Once commissioned, the pump requires no manual adjustments
- Has the lowest noise levels on the market
- Clean, Scandinavian design lets the product blend in with the surroundings

15%

More hot water

The DHP-AQ provides 15% more hot water than conventional heaters at no extra operational cost

Technological cornerstones

Four unique Danfoss technologies are at the heart of the DHP-AQ:

- 1 OPTI (Optimum Technology):** OPTI is a technology that constantly monitors your system and adjusts the pump's performance accordingly. That means that you can be sure your pump is always running at its most efficient level. OPTI improves the seasonal performance of your pump by about 10%.
- 2 TWS (Tap Water Stratification):** a patented Danfoss technology that ensures extremely fast production of hot tap water. It also lowers the cost of hot water and improves the pump's seasonal performance.
- 3 Acoustically engineered mechanical design:** a design feature that lowers the sound level of the DHP-AQ to the lowest level on the market. The outdoor unit of the heat pump can be placed where it's most convenient without worrying about sound issues.
- 4 Flexibility:** the DHP-AQ comes with a range of different heat pump solutions, which gives you complete flexibility to adapt the solution to your needs. However big or small your requirement, you will never invest in more than you need.



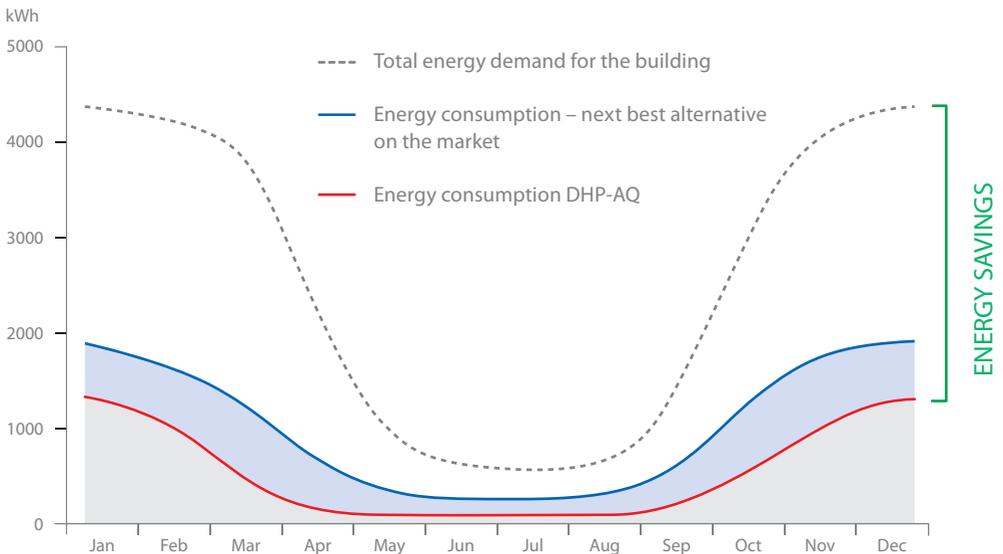
The Scandinavian look of the DHP-AQ makes it a subtle addition to your home



We love competition

Thorough product testing is part of the Danfoss philosophy. The DHP-AQ has been tested against three key competitors on its ability to efficiently provide heating in a radiator system and an under-floor heating system. The results speak for themselves:

DHP-AQ – Annual efficiency



A high seasonal performance (SPF) will provide a low energy cost all year round

The base case used in the calculation:

- One family house, detached
- Heating demand 21,000 kWh
- Hot water demand (two adults, two children) 4,000 kWh
- Heat distribution: under-floor heating (design temperature 40°)
- Location: Sheffield, U.K.

Fallen in love?

Here's the next step



Mini

- Controller

Midi

- Controller
- Circulation pump
- Auxiliary heater
- Three way valve

Maxi

- Controller
- Hot water tank
- Circulation pump
- Auxiliary heater
- Three way valve

An air/water heat pump is an easy, trouble-free route to major energy savings and greater home comfort. The initial investment has a typical payback time of just seven years, which gives you years of continuous future savings.

If you would like to hear more, please contact your certified Danfoss installer. You can find Danfoss at: www.danfoss.com

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