

Eco Energy Systems

Danfoss

The DHP-AQ Air/Water Heat Pump
**Sky-high savings for your customers,
profits on the rise for you**



Impeccable performance is money in the bank

Introducing the DHP-AQ

The DHP-AQ is the newest addition to the renowned Danfoss range of heat pump products. It combines uncompromising quality with the highest level of technology and fast installation benefits. It also features something your customers will love – the best seasonal performance on the market. In short, this pump performs so you can too.

75%

Savings

On your customers' energy consumption if they switch from oil or gas to the DHP-AQ.

50+

Applications supported

The DHP-AQ is the choice for heating, cooling, new-build and retrofit – and it supports 50+ predefined applications.

6 kW → 36 kW

Product range

The wide DHP-AQ range supports applications ranging from single family to multi-family houses – and they all fulfil the Ecolabel heat pump requirements.

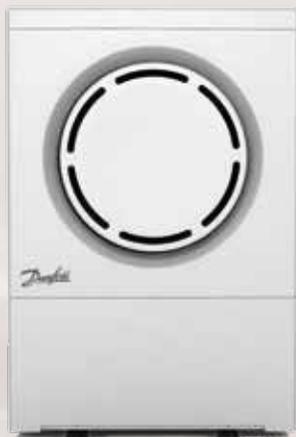


Designed for new build, retrofitting and 50+ applications

Whether you are commissioning a pump for a single family or multi-family home, a new build project or a retrofit project, the DHP-AQ provides heating and domestic hot water regardless of the temperature required in the heating system.

The DHP-AQ is extremely versatile and supports a wide range of applications. It has been tested thoroughly in combination with the following applications:

- Existing gas and oil boilers
- Solar systems
- Mixed heat distribution applications
- Pool applications
- Combinations with most hot water tanks
- Condensing and non-condensing cooling applications



The pump supports an even longer list of applications, and the variety ensures that you are able to provide the best possible solution for your customers and have it readily available when needed.

Seasonal performance you can bank on

The DHP-AQ features the best seasonal performance on the market thanks to the unique control system, which constantly coordinates and optimises three key parameters in the product:

1 Airflow

The heat pump is equipped with a highly efficient variable speed EC fan, which matches the air supply to the energy demand.

2 The refrigerant circuit

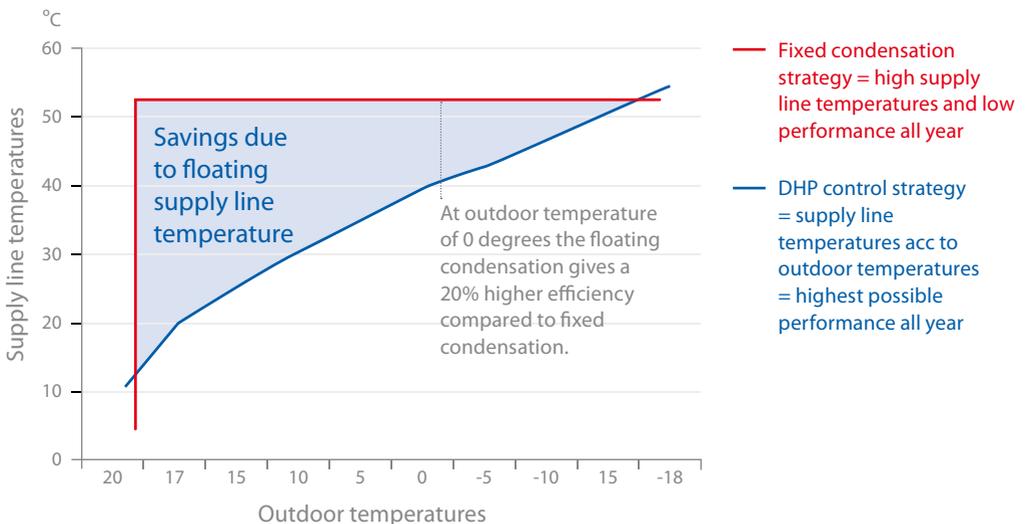
The DHP-AQ is made with an electronic expansion valve, which is able to adjust and control the flow of refrigerant at different outdoor temperatures. In the end, that means better energy efficiency on the cold side of the heat pump.

3 Heat distribution

A unique, self-commissioning flow adjustment system adapts the pump's performance to the actual system conditions (OPTI technology).

The DHP control strategy.

The controller in a Danfoss heat pump is designed specifically for a single purpose – to provide the highest possible heating comfort at the lowest possible running cost. Our secret is to make sure the supply line temperature to the heating system is kept at the lowest possible level while providing the comfort required by the customer. This keeps efficiency high and customers happy.



Stays hot in the cold

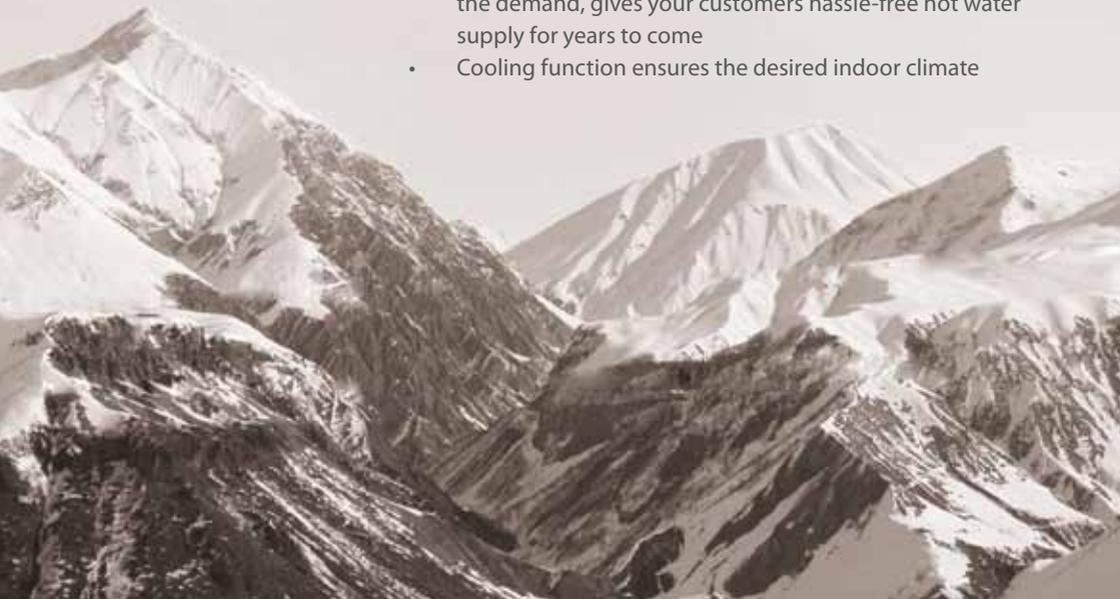


The efficiency of the DHP-AQ enables it to perform perfectly at very low outdoor temperatures. Even at -20°C it will keep a house comfortably heated. State-of-the-art defrosting technology ensures the energy efficiency and full functionality of the heat pump even during a cold winter. The defrosting system of the DHP-AQ is fully demand-controlled and will only run when necessary. The built-in heated drip-tray ensures that condensed water is channelled away properly from the heat pump.

Customer comfort

Your customers will be pleased with the special comfort features of the DHP-AQ:

- The lowest sound level on the market means you can place the pump wherever it is most convenient
- Calendar functionality enables you to define comfort periods and tailor the system specifically to your customers' needs
- Scandinavian design makes the pump a subtle addition to the home
- Reliable and consistent hot water production regardless of the demand, gives your customers hassle-free hot water supply for years to come
- Cooling function ensures the desired indoor climate



Installation in no time – customer satisfaction for years to come

The simple installation process of the DHP-AQ saves you and your customers valuable time. You simply connect the pump to the main supply and the controller connection, and you're done! The no-hassle installation also includes these features:

- Pre-fabricated indoor kits ensure a quick, aesthetic and high quality installation with no individual parts placed outside the cabinet
- A built-in stand and a heated drip-tray mean ground work is very limited and no extra parts are needed for the installation
- Plug and play electrical installation with connection to the controller via a communication cable (three-part wire)
- The OPTI functionality includes self-commissioning – once installed you know that the system is running optimally
- The controller displays visualised heat curves and once it is set, the customer never has to think about it again
- No refrigeration handling is needed since all pumps come refrigerant-charged





Mini

- Controller

Midi

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

Maxi

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

You are part of a team!

As a Danfoss installer, you are never alone. The Danfoss support team is ready to help you and answer any questions you may have at any time. The celebrated Danfoss product quality means your customers will have the same confidence in you as they do in the Danfoss brand.

We look forward to being at your service.



Danfoss

