



INNOVATIVE DAIKIN ALTHERMA 3 WS HEAT PUMP OFFERS RENEWABLE SOLUTION FOR APARTMENT BUILDINGS



Brussels, June 25 2020 - More and more people across Europe live in an urban area. Numbers from Eurostat show that in 2018, 46% of the EU-27 population lived in flats in those areas. Apartment buildings are among the most significant contributors to energy consumption and CO2-emission. The challenge is therefore to build apartment buildings that are as environmentally friendly as possible, but there are several practical concerns that make this difficult to do. By aiming to provide apartment buildings and collective housing with sustainable and high-energy performance heating equipment, Daikin has developed the Daikin Altherma 3 WS heat pump. With this solution, Daikin wants to get one step closer to a decarbonized future.

The Daikin Altherma 3 WS heat pump operates together with a communal air source heat pump (Daikin EWYT-B). The synergy between the Daikin Altherma 3 WS and the EWYT-B in high-rise buildings allows heat losses to be greatly reduced as well as minimising overheating risks thanks to the highly efficient thermal distribution at near ambient temperature. The innovative system consists of a network of heat pumps connected to a common central water loop. In each apartment there is a Daikin Altherma 3 WS unit – a high efficiency in-apartment water-to-water heat pump with an integrated domestic hot water cylinder, providing tailor-made comfort to each apartment.

The Daikin Altherma 3 WS is a silent application that doesn't take up much space in the apartment: its footprint is a mere 597x666mm, similar to other household appliances. It thus provides a solution to several constraints in apartment buildings. This heat pump, like all other Daikin heat pumps, is designed to suit modern living and fit into the homes of the future: it is efficient, cost-effective, and decarbonizing. Moreover, the Daikin Altherma 3 WS can be connected to any type of emitter. In

addition to the Daikin Altherma HPC recently won an award for its design, Daikin offers a wide range of emitters (underfloor heating, heat pump convectors...) thus offering a total solution.

The future of apartment buildings lies in decarbonization

Decarbonization is a hot topic in the collective building market: there is a higher demand for living space in cities and the cities of the future should be environmentally friendly. The growing number of people in urban areas poses a challenge: apartment buildings consume a lot of energy and have high CO₂-emissions. The building sector in Europe alone represents 40% of energy used. It is therefore vital to make sure that the future apartment buildings have an improved environmental performance to ensure their ecological footprint stays as small as possible. The Daikin Altherma 3 WS for Collective Housing is a step in the right direction to provide apartment buildings with renewable energy.

Patrick Crombez, General Manager Daikin Europe Heating and Renewables: *“The use of renewable energy sources in collective application is restricted due to practical concerns such as limited space and sound restrictions. The Daikin Altherma 3 WS is an innovative heat pump that takes these restrictions into account. It is a silent application that fits the apartments of the future perfectly. It is our mission to have a heat pump in every European home in order to fulfill the sustainability needs of tomorrow. We are now also able to offer a solution for apartment buildings.”*

Discover our engineering guide: <https://collectivehousing.daikin.eu/en-GB/>



About Daikin

Daikin Europe N.V. is a major European producer of air conditioners, heat pumps and refrigeration equipment, with approximately 10,000 people employed throughout Europe and 14 major manufacturing facilities based in Belgium, the Czech Republic, Germany, Italy, Turkey, Austria and the UK.

Globally, Daikin is renowned for its pioneering approach to product development and the unrivalled quality and versatility of its integrated solutions. With more than 90 years' experience in the design and manufacture of heating and cooling technologies, Daikin is a market leader in heat pump technology.

Press contact

Karl Vanderfaeillie

FINN

karl.vanderfaeillie@finn.agency