

### How the Johnson & Starley Aquair HIUs and ASHPs Help the Climate:

- 1. Reduction in Carbon Emissions:** Air Source Heat Pumps, when paired with Aquair Heat Interface Units, reduce the need for fossil-fuel-based heating methods, such as gas boilers. The Johnson & Starley Aquair and ASHPs rely on electricity, which can be sourced from renewable sources such as wind, solar, or hydroelectric power, making them a much cleaner option for heating. Up to 43% of the Electricity in the UK is currently produced by renewable sources. By reducing reliance on fossil fuels, this combination helps to lower greenhouse gas emissions and contribute to the UK's Net Zero target.
- 2. Maximising the Use of Renewable Energy:** ASHPs harness free energy from the air, which is abundant and renewable. When paired with an Aquair Heat Interface Unit, the heat from the pump can be used effectively to meet a household's heating and hot water demands. This not only reduces carbon emissions but also promotes the use of renewable resources in everyday living. It also helps to reduce the strain on the electricity grid, as these systems are often used in homes that may also have solar panels or other renewable energy sources.
- 3. Energy Efficiency and Sustainability:** Aquair HIUs are designed to work efficiently with ASHPs, ensuring that energy is used optimally. As they only consume a fraction of the energy compared to traditional heating systems, these combined systems are not only more sustainable but also more cost-effective over time. The higher efficiency and lower operational costs further incentivize people to switch from fossil-fuel-based heating systems to greener alternatives.
- 4. Long-Term Benefits for the Climate:** As more homes and commercial buildings adopt Air Source Heat Pumps and Heat Interface Units, the overall reduction in carbon emissions increases. By making the transition to renewable heat sources, the collective impact on reducing the UK's carbon footprint is significant, aiding the country's efforts in addressing climate change and meeting its climate targets.

In conclusion, the integration of Johnson & Starley Aquair Heat Interface Units with Air Source Heat Pumps is a crucial step in creating more sustainable and energy-efficient heating systems. These technologies help reduce reliance on fossil fuels, cut carbon emissions, and promote the use of renewable energy, all of which support the UK Government's commitment to achieving Net Zero emissions by 2050 and mitigating the effects of climate change.