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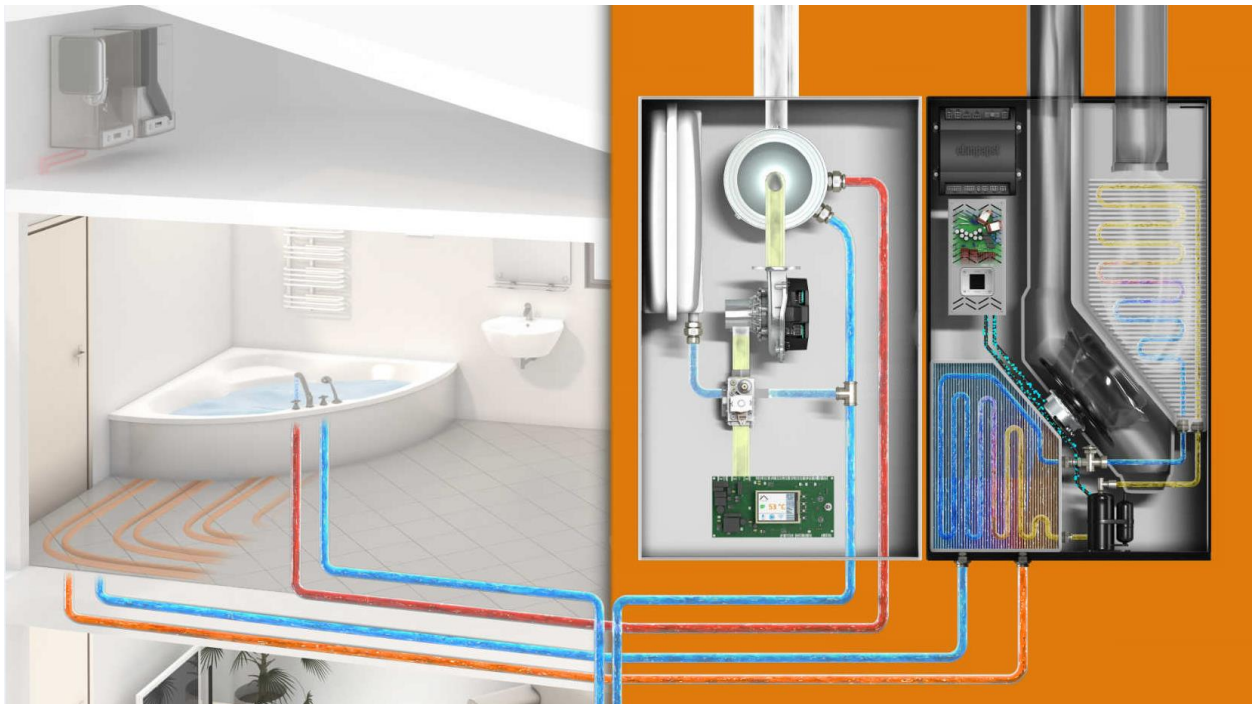


Fig. 1: Functional principle of a heat pump in a single-family home in hybrid use



Fig. 2: AxiEco plug-in: as the pressure increases, the air flow changes only very slightly. The FlowGrid, which acts as a rectifier for air flow, drastically reduces noise disturbances in the air flow.

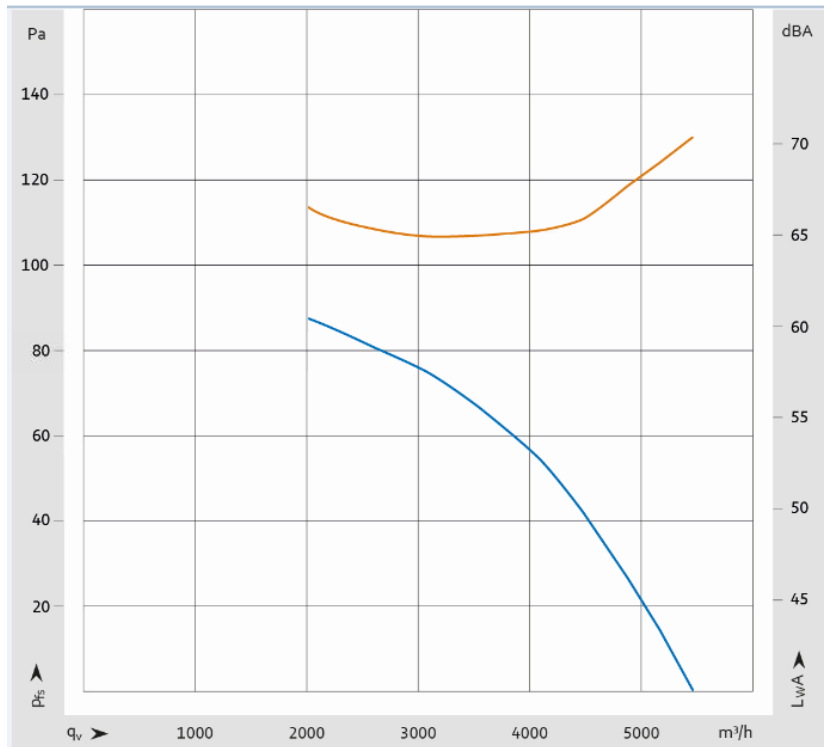


Fig. 3: Characteristic map of the size 500 AxiEco plug-in in terms of air performance (blue characteristic curve) and noise (orange characteristic curve)



Fig. 4: The AxiTone delivers large air volumes and operates particularly quietly in noise-sensitive applications.

Regulation (EU) No 517/2014 on fluorinated greenhouse gases

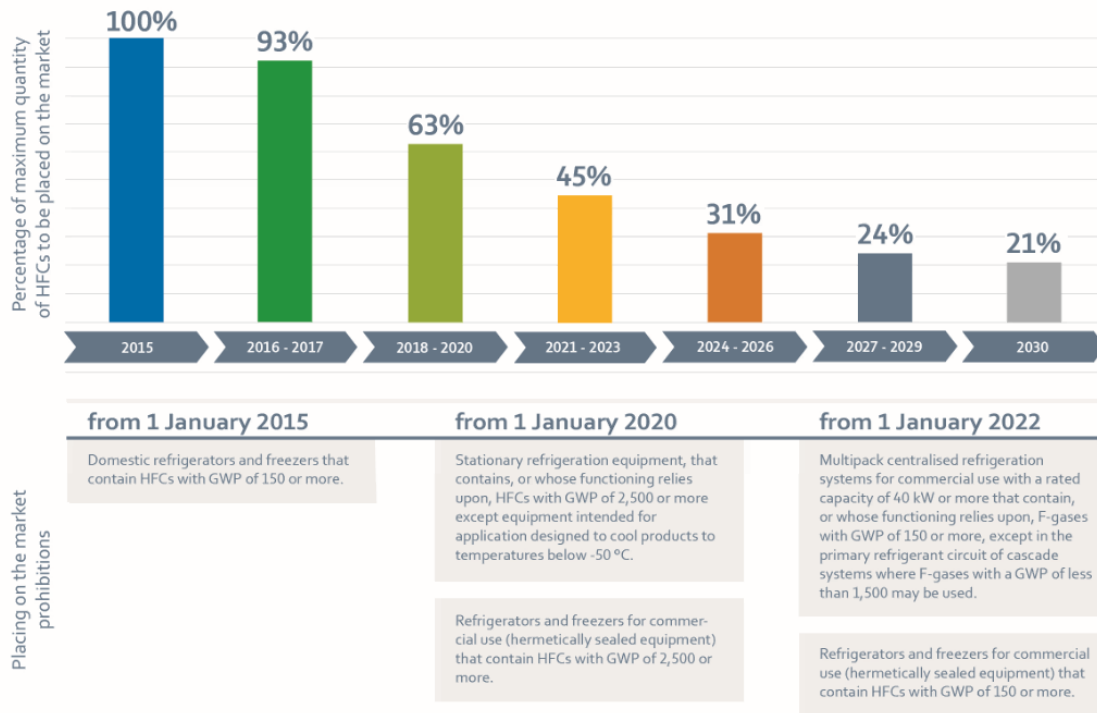


Fig. 5: The step-by-step plan of the F-Gas Regulation (Regulation (EU) No. 517/2014) governs the use of partially halogenated hydrofluorocarbons (HFCs).



Fig. 6: The fans approved for use with A3 refrigerants in accordance with EN 60335-2-40 are available in various axial and centrifugal versions.



Fig. 7: The psychoacoustics laboratory for test subjects at ebm-papst in Mulfingen

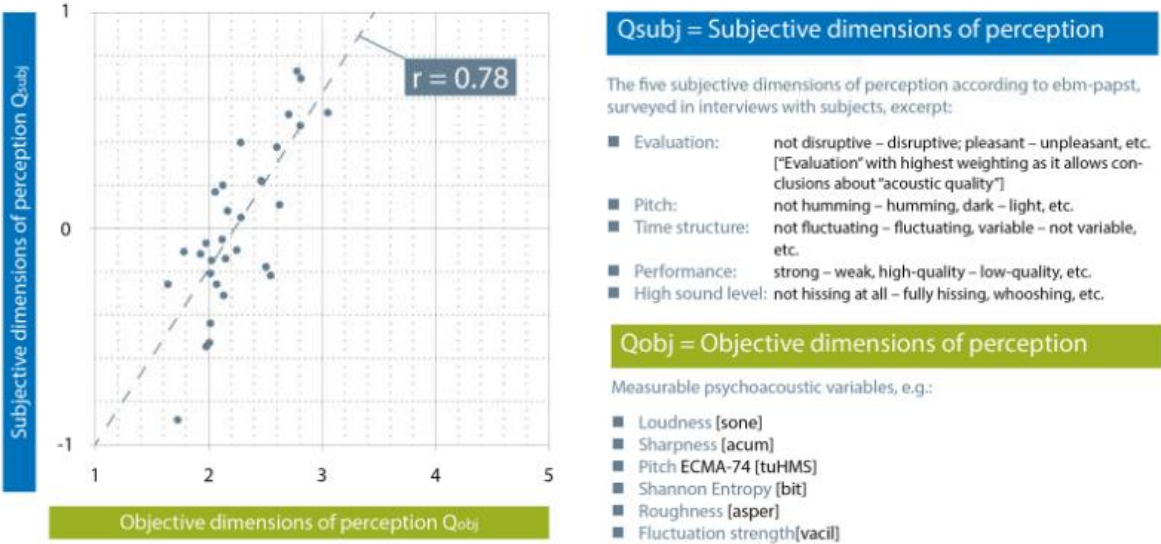


Fig. 8: Subjective dimensions of perception are brought together with measurable psychoacoustic variables. The closer the correlation coefficient r is to 1, the more suited the model to depicting the subjective aspects of perception through objective (measurable) ones. The acoustic quality Q , which then represents the fan's perceived noise, should be as high as possible.



Fig. 9: Inverter electronics with output powers 3.5 kW and 12 kW for efficient and low-noise compressor drives