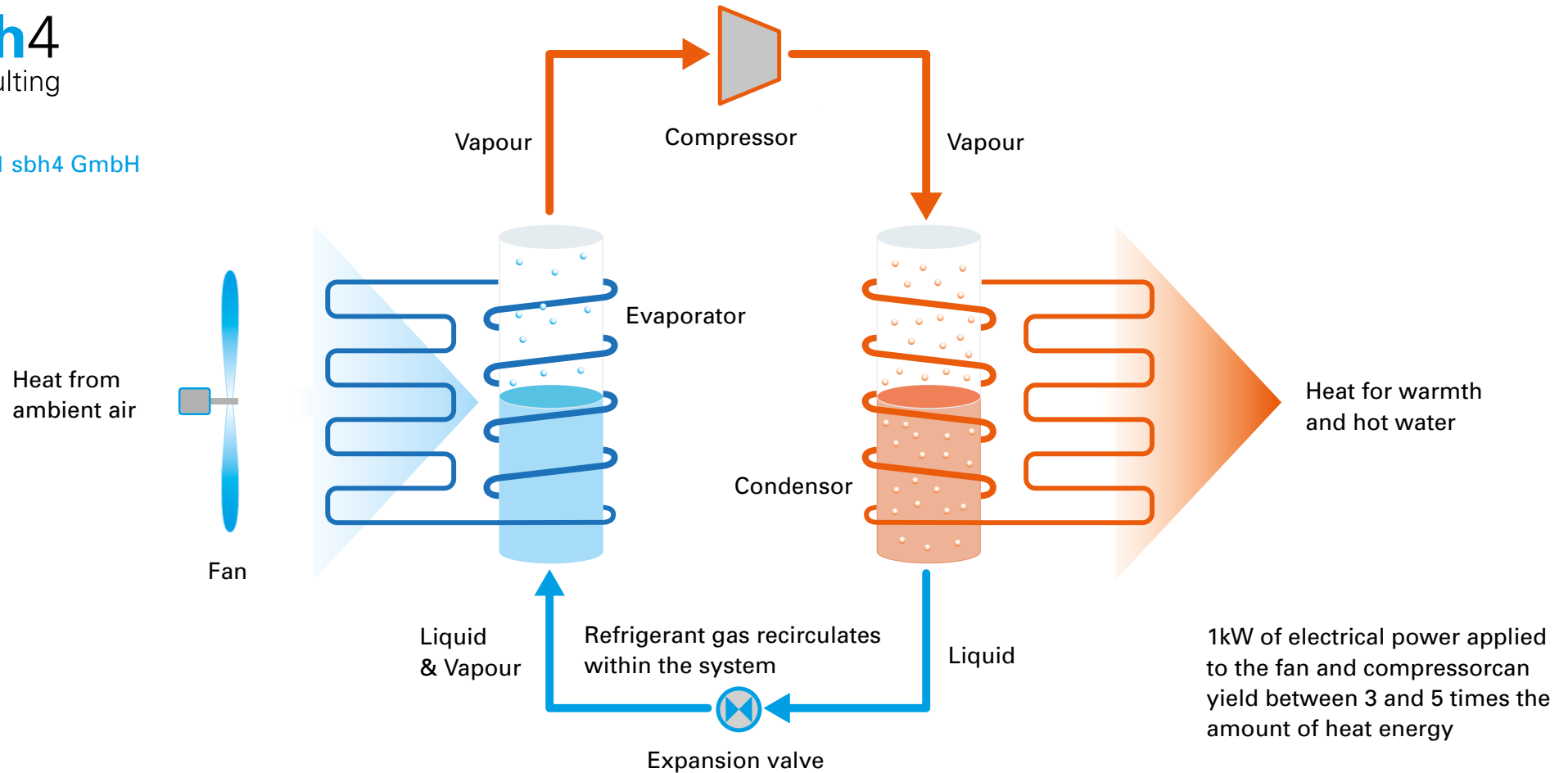


# Air source heat pump operation with refrigerant gas recirculation

Upgrades ambient heat from the air to generate warm heating for buildings and hot water

sbh4  
consulting

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R1234ze, CO<sub>2</sub> or Ammonia – typically used as the refrigerant gas in larger, industrial or district heating systems  
R32 or R454B – can be used as the refrigerant gas in smaller, standardised domestic air source heat pumps