

ABSTRACT**Heating system with optimized recovery of waste water heat**

A heating system (4) with recovery of waste water heat, of the type comprising a heat pump (12), a waste water holding vat (10) comprising a casing (34) defining an internal space (36) for holding the waste water; and a heat exchanger (26, 28; 76) to recover calories in the holding vat (10) and use them in the heat pump (12).

The holding vat (10) comprises at least one baffle (44) extending in the holding space (36) and dividing the holding vat (10) into a plurality of compartments (46) and defining, with the casing (34), a waste water flow path that bypasses the baffles (44) and passes into the compartments (46), the heat exchanger (26, 28; 76) being positioned so as to recover calories in at least two compartments (46).

Figure 2