Domestic hot water heat pump with easy-to-use control

BWP 30HS / BWP 30HSD

Flexible and cost-efficient: Heat pumps for domestic hot water preparation

A domestic hot water heat pump is an efficient solution for domestic hot water preparation in both new and existing buildings. The heat pump can cover domestic hot water consumption all year round, independent of an existing heating system. It extracts up to 70% of the energy required for heating from the surrounding air or from the waste heat found in the indoor air. Extremely convenient domestic hot water preparation is possible in combination with an existing boiler, making "inefficient" boiler operation during the warmer times of the year a thing of the past.

Intelligent combination - additional benefits

Choosing a Dimplex domestic hot water heat pump makes a whole range of combinations with additional heat generators possible, including solar energy systems and boilers. Both the cylinder and the control system of the heat pump come equipped for bivalent operation. However, domestic hot water heat pumps also provide additional benefits in heat pump-only operation. The air in the installation location is efficiently dehumidified. If required, the integrated EC fan can be used for energy-efficient continuous ventilation.

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- ✔ Control system with real-time clock for time-controlled operation and display for indication and setting of the operating data
- ✔ High COP with efficient EC radial fan
- ✔ Integrated solar control for combined operation with a thermal solar energy system
- ✔ Switching contact for higher domestic hot water temperatures for increased intrinsic consumption in combination with photovoltaic systems
- ✔ BWP 30HSD version with extended operating limit of -8°C via active defrosting

Intelligent regulation for maximum comfort

With the new integrated controller, heat pump operation can be adjusted to suit different people's lifestyles and the building's existing installations. Domestic hot water preparation can be time-controlled to benefit from low electricity tariffs or to avoid stand-by losses.

Existing heat generators can still be used thanks to the integrated additional heat exchanger. The integrated control system can control a thermal solar energy system - this requires an additional PT 1000 sensor. The electricity generated by a photovoltaic system can also be used directly, thus increasing the percentage of intrinsic consumption.

Device information

Order reference		BWP 30HS	BWP 30HSD
Connection voltage		1/N/PE ~230 V, 50Hz	1/N/PE ~230 V, 50Hz
Usable exhaust air temperature	°C	+8 - 45	-8 - 45
Hot water cylinder volume	l	290	290
Diameter x Height	mm	700 x 1710 x 770	700 x 1710 x 770
Air duct connections	mm	Ø 160	Ø 160
Integrated additional heat exchanger[1]	m²	1,45	1,45
Weight (empty)	kg	150	150
Domestic hot water temperature, max. (in heat pump operation)	°C	60	60
Hot water temperature, max. (with heating element)	°C	65	65
Mean heat pump output	W	1870	1870
Connected load of integrated heating element	kW	1,5	1,5
Coefficient of performance[2]		3,7	3,7

[1] Connection of additional energy sources, e.g. boiler or solar system
[2] Heating up of the nominal volume from 15 °C to 45 °C at an air intake temperature of 15 °C with 70% relative humidity (according to EN 255)

Safety liquefier - a proven solution for safe operation and low build-up of limescale

Dimplex domestic hot water heat pumps are equipped with a safety liquefier coiled around the outside of the tank. This makes use of two benefits: The domestic hot water cannot become contaminated if leakage occurs, and at the same time, the water in the cylinder is efficiently heated at optimum temperatures. This prevents the build-up of limescale, as the temperatures are well below those of directly heated systems.

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