HYGIENIK 3.0
HOT WATER STATION 3.0

THE ENERGYFAMILY



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iNTELLiGENT HEAT PUMPS FROM AUSTRIA

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iDM HYGIENIK COMBINED STORAGE TANK

The HYGIENIK 3.0, in combination with the HOT WATER STATION 3.0, serves as both a **heating storage tank and a drinking water heater**. The heating water, which has been warmed by the heat pump, is used in the HOT WATER STATION 3.0 to heat the newly supplied drinking water. This ensures that fresh and hygienic water is always available for drinking and household use.

- **Saves space: only 1 tank for heating and hot water**
- **Hygienic hot water and maximum comfort, thanks to innovative fresh water technology**
- **Versatile system suitable for renovation projects and solar panel integration**
- **Optimized connections for operation with heat pumps**

FIRST-CLASS TEMPERATURE LAYERING
FIRST-CLASS EFFICIENCE

- Layered storage technology for optimized energy consumption
- Maintains high storage temperatures
- Very low return temperature to the tank
- Depending on the tank size, up to 2,100 liters of hot water can be drawn at a tap temperature of 45 °C



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HOT WATER STATION 3.0

The new iDM HOT WATER STATION 3.0 offers **cutting-edge technology for efficient and reliable hot water supply**. With intelligent controls, easy installation, and well-thought-out features, it sets a new standard in energy efficiency and hot water comfort.

- **The HOT WATER STATION delivers warm water quickly and hygienically and can be mounted directly on the HYGIENIK combination storage tank or on the wall.**
- **Thanks to optimized controls, efficient pump management and precise temperature regulation are possible.**
- **The return flow stratification ensures optimal energy use and largely prevents mixing within the tank.**
- **The optimized wiring and piping enable simplified installation, centralized control, and high reliability.**

REGULATION OPTIMIZATION:

A standard flow sensor, efficient primary circuit pump control and rapid but precise temperature measurement, enable optimal regulation of the tap temperature.

OPTIMIZED WIRING AND PIPING:

The HOT WATER STATION 3.0 is delivered fully wired from the factory. The CAN-BUS connection between the HOT WATER STATION 3.0 and the heat pump significantly reduces installation effort. Centralized gathering of all sensor data and power supply to the pumps in the HOT WATER STATION 3.0 is managed through the installed circuit board. Additionally, the configuration of the circuit board via the Navigator ensures high reliability in hot water production.

RETURN FLOW STRATIFICATION:

The optional return flow stratification prevents unwanted mixing in the tank during circulation, at high storage temperatures, and with small draw-off amounts. This ensures efficient energy use and a consistent hot water supply.

CIRCULATION SET:

The optional circulation set enhances comfort in small hot water networks, integrates seamlessly with the HOT WATER STATION 3.0, and enables efficient circulation operation.



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TECHNICAL DATA HYGIENIK 3.0

HYGIENIK 3.0	Unit	500/25	500/35	825/25	825/35	1000/25	1000/35	1000/50
Energy efficiency class		B	B	1)	1)	1)	1)	1)
Delivery output	l/min	25	35	25	35	25	35	50
Reservoir content	Liters	500		825		920		
One-off delivery volume at 45 °C*2)	Liters	525		866		966		
Dimensions (DxH) with insulation	mm	1890x882		1970x1022		2170x1022		
Yield measurement	mm	650		790				
Hot Water Station	kg	32	34	32	34	32	34	40
Total weight (Storage tank + insulation + Hot Water Station)	kg	140	142	161	163	170	172	178
Heat exchanger surface 2)	m^2	-	-	2,8	2,8	-	-	-
Max. collector surface 2)	m^2	-	-	12	12	-	-	-

HYGIENIK 3.0	Unit	1500/25	1500/35	1500/50	1500/70	2000/25	2000/35	2000/50	2000/70
Energy efficiency class		1)	1)	1)	1)	1)	1)	1)	1)
Delivery output	l/min	25	35	50	70	25	35	50	70
Reservoir content	Liter	1500				2000			
One-off delivery volume at 45 °C*2)	Liter	1575				2100			
Dimensions (DxH) with insulation	mm	2400x1210				2505x1360			
Yield measurement	mm	950				1100			
Hot Water Station	kg	32	34	40	46	32	34	40	46
Total weight (storage tank + insulation + Hot Water Station)	kg	250	252	258	264	296	298	304	310

1) According to EU Regulation No. 812/2013 on the energy labeling of space heaters, no energy labeling is required for hot water storage tanks with a total volume greater than 500 liters.
2) Custom design with a solar heat separation plate.
*) When the entire hygienic system is heated to 60 °C, with speed control of the plate heat exchanger pump.

TECHNICAL DATA HOT WATER STATION 3.0

HOT WATER STATION 3.0	25 l	35 l	50 l	70 l	25 l with Mixing Valve	35 l with Mixing Valve
Article number	**173340**	**173341**	**173342**	**173343**	**173344**	**173345**
Delivery output	25	35	50	70	25	35
Pressure loss - tap water side (bar)	0,1	0,1	0,4	0,6	0,1	0,1
Max. operating pressure > heating side (Bar)	3	3	3	3	3	3
Max. operating pressure > sanitary side (Bar)	6	6	6	6	6	6
Max. operating temperature (°C)	95	95	95	95	95	95
Electrical connection	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Freshwater pump power consumption	75 Watts	92 Watts	130 Watts	190 Watts	75 Watts	92 Watts
Dimensions (Height/Width/Depth in mm)	25 l and 35 l: 900 / 520 / 340		50 l and 70 l: 1100 / 440 / 260			