

## The Hygienik buffer storage tank from IDM.

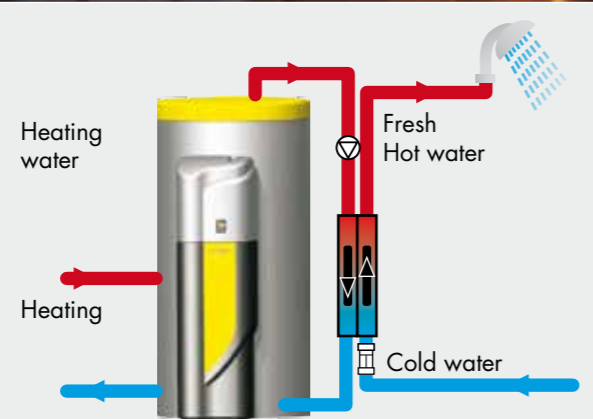


### Comfort through hygiene

The Hygienik is a 2-in-1 layer accumulator: in the upper section, hot heating water is available for heating the drinking water. The separate lower section contains the buffer storage tank for low-temperature heating.

As soon as the hot water in the shower, sink or washing machine is turned on, an external plate heat exchanger transfers the heat from the heating water to the drinking water in the bathroom and kitchen – quickly and hygienically.

**The benefits to you:** you use the energy from the heat pump twice, you have no issues with Legionella, and you can shower or bathe in complete relaxation.



**The Hygienik à-la-carte service** provides fresh hot water in seconds. Only the actual amount of water required is heated, without storing any hot water. This prevents the formation of microorganisms such as Legionella and other bacteria. It is good to know that the hot water you enjoy is clean.



## Technical Data

### HYGIENIK

HYGIENIK Type	500/25	500/35	825/25	825/35	1000/25	1000/35	1000/50	1500/25	1500/35	1500/50	1500/70	2000/25	2000/35	2000/50	2000/70
Accumulator content in litres	500	500	825	825	920	920	920	1500	1500	1500	1500	2000	2000	2000	2000
Dispensed output in l/min	25	35	25	35	25	35	50	25	35	50	70	25	35	50	70
One-off dispensed quantity with 45°C *litres	480	480	800	800	900	900	900	1400	1400	1400	1400	1800	1800	1800	1800
Performance index top/bottom according to DIN 4708 *	4	6	5	8	6	10	15	6	12	15	20	6	12	15	20
Dimensions (DxH) with insulation cm	85x185	85x185	100x195	100x195	100x215	100x215	100x215	115x235	115x235	115x235	115x235	130x245	130x245	130x245	130x245
Installation depth cm	65	65	79	79	79	79	79	95	95	95	95	110	110	110	110
Insulation thickness cm	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total weight, empty, kg	100	105	115	120	125	130	135	160	165	170	175	200	205	210	215

\* Once the entire Hygienik is heated to 60°C, with speed control for plate exchanger pump



Water heater for hygienic and fresh hot water with a comprehensive range of additional functions, suitable for all heat generators.

Accumulator body made from St 37.2 with all necessary connection sleeves, with installation option for 1 1/2" heating immerser with large flange with blind plate for the installation of a solar heat exchanger; including 100 mm thick fleece/soft foam insulating cover with outer polystyrene lamination, and hot water station with flow switch, Y-valve, dirt filter, plate heat exchanger, pump, ready-fitted pipework. Incl. cover hood (only for Hygienik 500, Hygienik 825 and Hygienik 1000 with 25 or 35 litre module)

### HYGIENIK-SOLAR

HYGIENIK Type	825/25/15	825/25/30	825/35/15	825/35/30	1000/25/15	1000/25/30	1000/35/15	1000/35/30	1500/25/15	1500/25/30	1500/35/15	1500/35/30
Accumulator content in litres	825	825	825	825	920	920	920	920	1500	1500	1500	1500
Dispensed output in l/min	25	25	35	35	25	25	35	25	25	25	35	35
maximum collector surface m <sup>2</sup>	15	30	15	30	15	30	15	30	15	30	15	30
One-off dispensed quantity with 45°C *litres	820	820	820	820	900	900	900	900	1400	1400	1400	1400
Performance index top/bottom according to DIN 4708 *	5	5	8	8	6	6	10	10	6	6	12	12
Dimensions (DxH) with insulation cm	100x195	100x195	100x195	100x195	100x215	100x215	100x215	100x215	115x235	115x235	115x235	115x235
Installation depth cm	79	79	79	79	79	79	79	79	95	95	95	95
Insulation thickness cm	10	10	10	10	10	10	10	10	10	10	10	10
Total weight, empty, kg	165	165	170	170	175	175	180	180	210	210	215	215



Heating and hot water accumulator with layer separation plate for hygienic, fresh hot water and layered infeed of solar heat, suitable for all heat generators

consisting of: accumulator body, hot water station, solar station, cladding box with additional control module  
Accumulator body made from St 37.2 with all necessary connection sleeves; installation option for 1 1/2" heating immerser; including 100 mm thick fleece/soft foam insulating cover with outer polystyrene lamination, and plastic cover;

Hot water station with plate heat exchanger, flow switch, Y-valve, dirt filter, flushing cocks, pump, ready-fitted pipework

Solar station with plate heat exchanger, 2 high-efficiency pumps, switching valve, flow window, Taco-Setter, cut-off valve, flushing cocks, expansion container, safety valve, sensor, ready-fitted pipework  
Cladding box, insulated, with ready-fitted additional control module

Very low transport weight

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Hygienik buffer storage tank with fresh water heating  
Hygienik SOLAR multivalent system



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## Hygienic and fresh hot water for your wellbeing.

Hot water refreshes you when you take your morning shower and relaxes you when you take a hot bath after a long day. And above all, hot water symbolises purity. But that can be a misconception. All sorts of germs can accumulate in conventional hot water tanks.

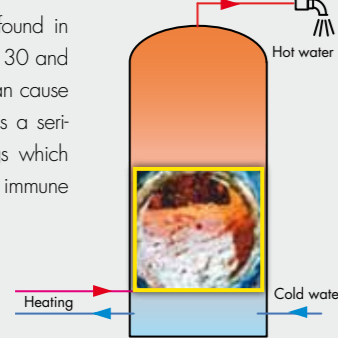
But for more than 20 years, the Hygienik fresh water system from the IDM power family has set its own standards in hygiene: fresh water heating according to the flow principle, with large-area stainless steel heat exchangers, provides clean, healthy water for your home.

You will soon see: with the Hygienik buffer storage tank with fresh water technology, taking a shower will become one of your family's favourite pastimes.

### Conventional hot water tank:

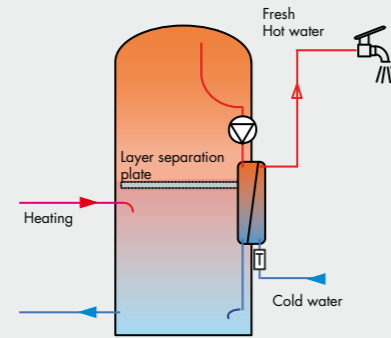
Here, the hot water stands in the tank for long periods of time. Sludge and dirt accumulate at the base of the tank – the ideal breeding ground for germs.

**INFO:** Legionella are pathogens found in water. At temperatures of between 30 and 40°C, they multiply rapidly and can cause Legionnaire's disease. Legionella is a serious infectious disease of the lungs which can be fatal for persons with weak immune systems.



### IDM Hygienik buffer storage tank:

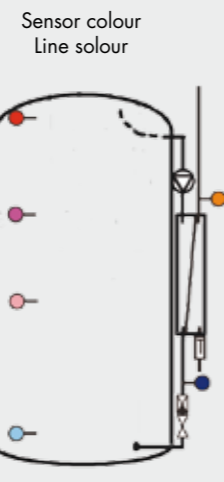
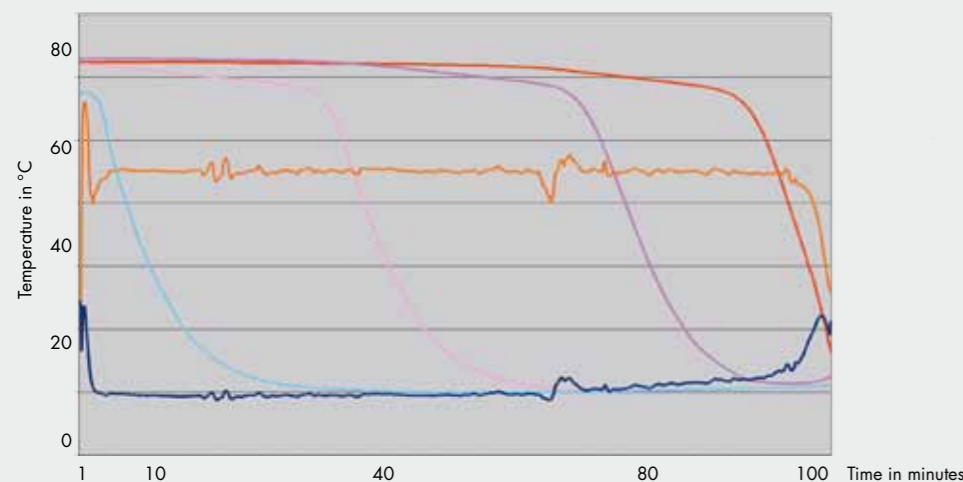
Hot water is only heated when you actually need it. The only water in the storage tank is for heating. This means that your hot water for drinking, washing and rinsing is always fresh.



### Temperature stratification for tapping first-class fresh water:

- The tank is cooled from the bottom to the top
- Higher temperatures are maintained in the upper area
- The optimum stratification can be seen in the steeply falling curve in the diagram

- Very low return flow temperatures into the tank
- Up to 1,400 l of hot water can be drawn from the tank at 45°C (when the tank is loaded with water at 60°C)



## The Hygienik Solar.

### Let the sun shine in

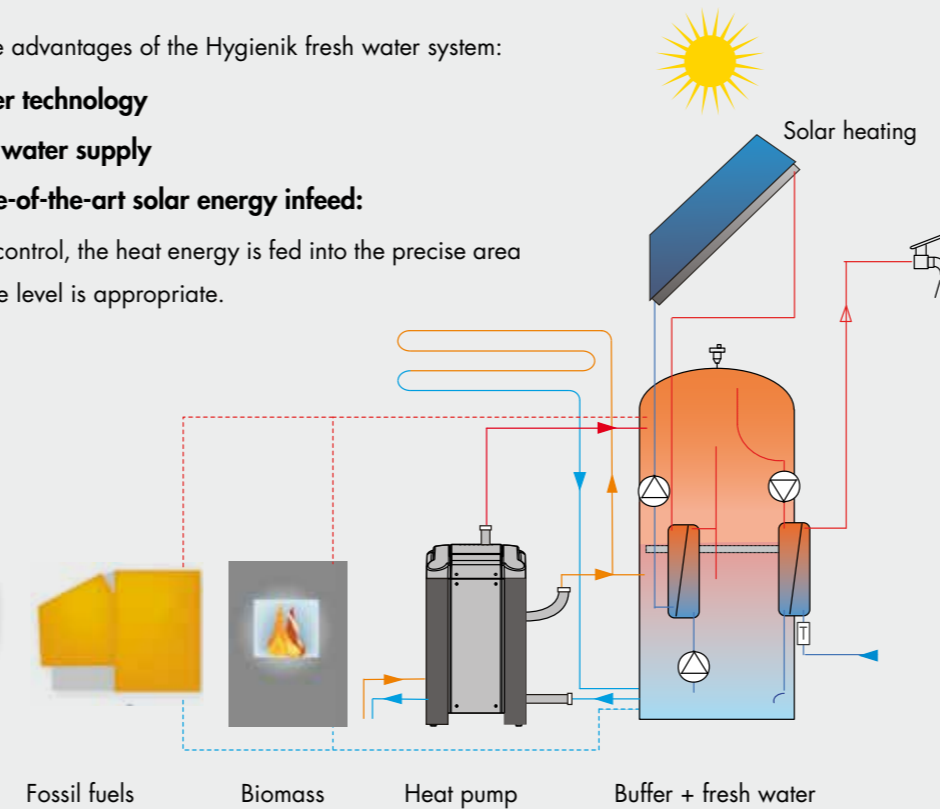
The Hygienik Solar from IDM has all the advantages of the Hygienik fresh water system:

- Hygienic & convenient fresh water technology
- Space-saving heating and warm water supply
- in addition, it has improved, state-of-the-art solar energy infeed:

Via a plate heat exchanger with speed control, the heat energy is fed into the precise area of the buffer tank where the temperature level is appropriate.

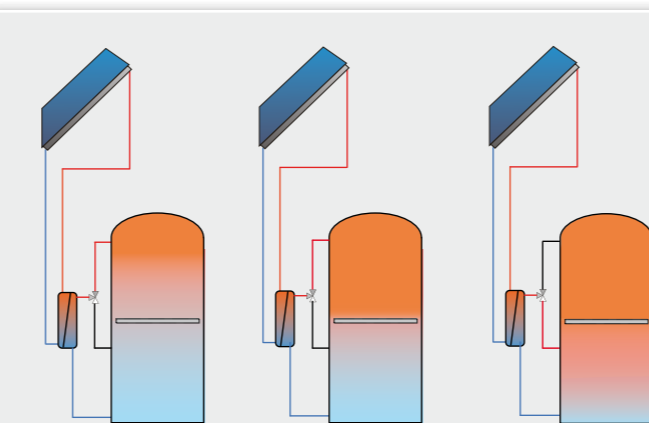


You can even complete existing heating systems with the Hygienik Solar Multivalent system.



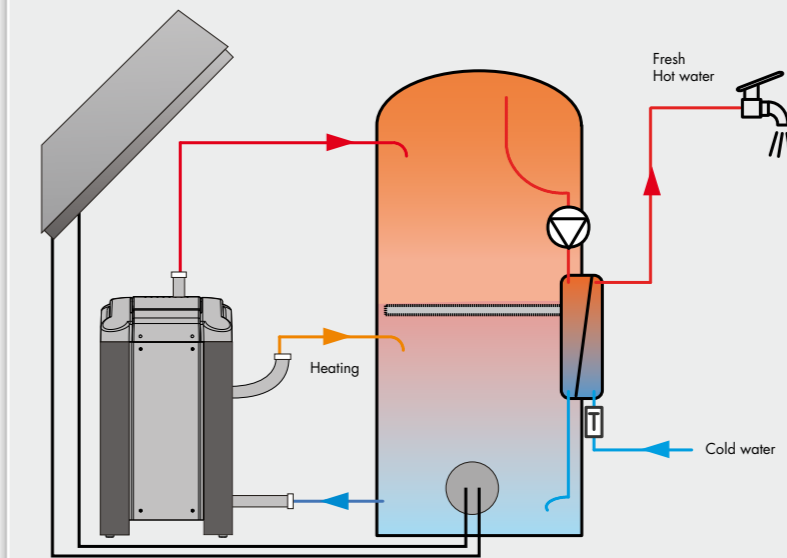
### Temperature stratification in the tank with solar charging:

1. The temperature of the water in the upper area of the tank very quickly rises to more than 50°C; this means that hot service water is available very quickly.
2. The speed control means:
  - Optimum charging temperature in two areas of the tank: hot water at the top, heating water at the bottom
  - Very low collector return flow temperature (LOW-Flow effect)
  - Very high collector efficiency



This is how it works:  
Left and centre: The tank is heated from the bottom to the top. Right: When the water in the top area has been heated for the hot water supply, the valve switches over and the lower area of the tank (heating buffer) is heated.

## The Hygienik.



### Feel the warmth.

Together with the hot gas charging technology (HGL), the Hygienik provides hot water. The HGL flow delivers up to 60°C into the upper part of the buffer tank. The main proportion of the energy is provided for heating at about 35°C. The high temperature is transferred hygienically to the fresh tap water in the external plate heat exchanger.

You can also connect solar thermal collectors to the Hygienik: A large flange can take a heat exchanger for solar thermal up to 12m<sup>2</sup>.

## Intelligent control for heating systems

### NAVIGATOR® control

All IDM systems are controlled with the NAVIGATOR®. It is integrated in all IDM TERRA heat pumps and in the Hygienik Solar. And you can regulate individually when and where each temperature setting is activated - so you can really feel well at home.

### COMMUNICATIVE:

The NAVIGATOR® from IDM is ready for anything: whether you want to control your heating via the internet, via your mobile phone, via your BUS system or directly. The NAVIGATOR® can do it all, and it takes notes, too - in an operation logbook on an SD card



The NAVIGATOR® represents an especially intelligent development. The NAVIGATOR® is highly adaptable. Up to seven heating circuits can be controlled individually. That means seven different time schedules for heating and seven different temperature zones in the house.



My customers just love the NAVIGATOR®. Operation could not be easier and everything runs just as they want it to. An end to heating worries, providing wellbeing for the whole family.