



THE ENERGY FAMILY

**SYSTEM
TECHNOLOGY**



We take care of your well-being.

Leading technology from IDM. Expertise from installers.

www.idm-energie.com



TECHNICAL DATA:

HYGIENIK

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

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
NL number *	4	6	5	8	6	10	15	6	12	15	20	6	12	15	20
Dimensions (DxH) in mm with insulation	850 x 1850	850 x 1850	1000 x 1950	1000 x 1950	1000 x 2150	1000 x 2150	1000 x 2150	1150 x 2350	1150 x 2350	1150 x 2350	1150 x 2350	1300 x 2450	1300 x 2450	1300 x 2450	1300 x 2450
Installation dimension in mm	650	650	790	790	790	790	790	950	950	950	950	1100	1100	1100	1100
Thickness of insulation in mm	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Total weight, empty, kg	100	105	115	120	125	130	135	160	165	170	175	200	205	210	215



Water heater for hygienic and fresh hot water with extensive additional functions; suitable for all heat generators. Storage body manufactured from steel 37.2 with all of the necessary connecting sleeves, with installation option for 1 1/2" heating element, with large flange and dummy plate for installation of a solar heat exchanger; includes fleece/soft foam insulating jacket with outer polystyrene coating, 100 mm thick, and a hot water station with flow switch, inclined seat valve, dirt filter, plate heat exchanger and pump, completely piped. Including protective cover (Hygienik 500, Hygienik 825 and Hygienik 1000 with 25 or 35 litre module).



The **insulation** used for the IDM Hygienik range, which incorporates a **fleece and soft foam sheath**, prevents a "chimney effect" from occurring in the buffer storage tank and stores more heat.

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	35	25	25	35	35
maximum collector surface m²	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
NL number *	5	5	8	8	6	6	10	10	6	6	12	12
Dimensions (DxH) in mm with insulation	1000 x 1950	1000 x 1950	1000 x 1950	1000 x 1950	1000 x 2150	1000 x 2150	1000 x 2150	1000 x 2150	1150 x 2350	1150 x 2350	1150 x 2350	1150 x 2350
Installation dimension in mm	790	790	790	790	790	790	790	790	950	950	950	950
Thickness of insulation in mm	100	100	100	100	100	100	100	100	100	100	100	100
Total weight, empty, kg	165	165	170	170	175	175	180	180	210	210	215	215



Heating and hot water storage tank with separating plate for hygienic, fresh hot water and stratified supply of solar heat; suitable for all heat generators

consisting of: storage body, hot water station, solar station, panel box with auxiliary control module; storage body manufactured from steel 37.2 with all of the necessary connecting sleeves; installation option for 1 1/2" heating element; includes fleece/soft foam insulating jacket with outer polystyrene coating, 100 mm thick, and plastic cover; hot water station with plate heat exchanger, flow switch, inclined seat valve, mixing valve, dirt filter, flushing valves, pump, completely piped

Solar station with plate heat exchanger, 2 high-efficiency pumps, switching valve, flow meter, taco setter, gate valve, flushing valves, expansion vessel, relief valve, sensor, completely piped

Panel box, insulated, with integrated auxiliary control module

Particularly low transport weight

© IDM ENERGIESYSTEME GMBH Matrei i. Osttirol 01.2013/818310 · Brochure for IDM system technology
With generous support from our models Walter Jans and Anton Oberhauser;
layout & graphic design by Lobster Vienna. Errors and omissions excepted.



IDM-Energiesysteme GmbH

A-9971 Matrei in Osttirol, Seblas 16-18

TEL: +43(0)4875 6172, FAX: +43(0)4875 6172-85

E-MAIL team@idm-energie.at

www.idm-energie.at

ENSURING YOUR WELL-BEING HAS NEVER BEEN SO EASY.



Unique in the market. Control your new IDM heating system easily with the Navigator®. The Navigator® lies at the heart of IDM's system technology. By using the Navigator you can control your heating system via your mobile phone, tablet PC or notebook.



Thousands of customers have become part of the IDM energy family and are delighted by the convenience and cutting edge technology offered by our products.

Hundreds of plumbers and heating engineers in the German-speaking region are also among IDM's enthusiastic ambassadors. Because it's important for plumbers to sell products from a reputed partner that guarantees high quality. This reduces the rate of complaints. This is something that is extremely negligible at IDM.



All of our heat pumps are Smart Grid ready. Smart grids connect power generators, power plants and electricity consumers. They distribute the load intelligently in the network. The heat pump gathers information from the energy supplier regarding whether the tariff is high, normal or low, and responds accordingly. This works today with the information provided by your photovoltaic system.



OUR FRESH WATER TECHNOLOGY ENSURES ENHANCED COMFORT.

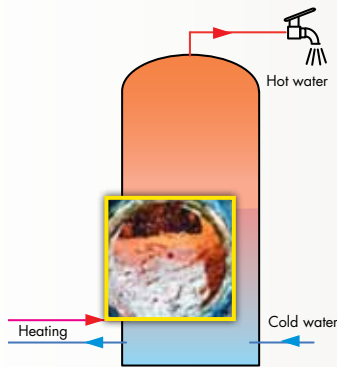
Hot water refreshes you when you take your morning shower and relaxes you when you take a hot bath after a long day. And, above all, hot water symbolises well-being, relaxation and cleanliness. However, this can be a misconception. All manner of germs can accumulate in conventional hot water tanks.

The IDM power family has been setting its own standards in terms hygiene for more than 25 years with the Hygienik fresh water system: fresh water heating according to the flow principle, with large stainless steel heat exchangers, provides clean, healthy water for your home.

You will soon notice that the Hygienik buffer storage tank with fresh water technology makes taking a shower one of your family's favourite pastimes.

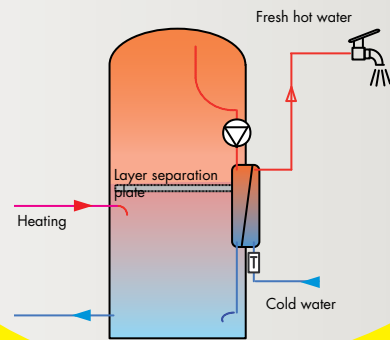
Conventional hot water tank:

The hot water stands in the storage tank for a prolonged period of time. Sludge and dirt accumulate at the base of the tank, which is an ideal breeding ground for germs.



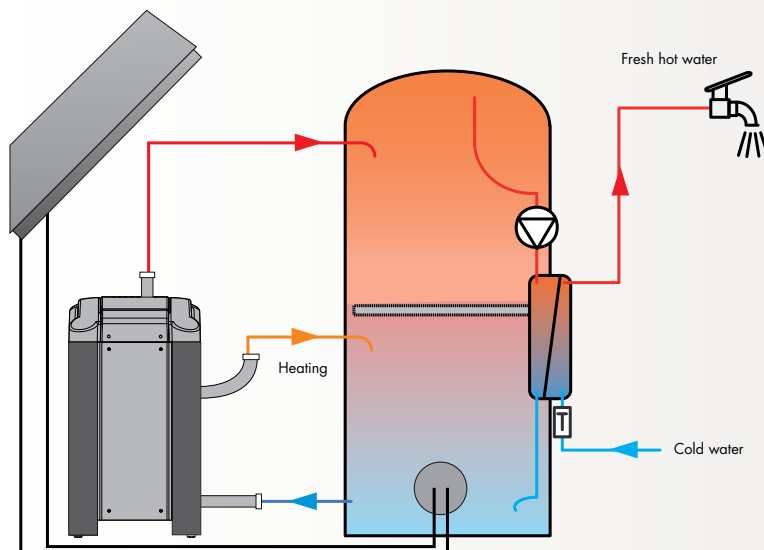
IDM Hygienik buffer storage tank:

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.



Info: Legionella are pathogens found in water. They multiply rapidly at temperatures between 30°C and 40°C and can cause Legionnaire's disease. Legionella is a serious infectious disease of the lungs which can be fatal for anyone with a weak immune system.

The Hygienik fresh water technology provides fresh hot water in seconds. Only the water required for heating is stored; drinking water is always heated fresh. This prevents the formation of microorganisms such as Legionella and other bacteria. My customers shower and bathe hygienically.



Feel the heat.

The Hygienik system ensures a supply of hot water together with hot gas charging technology (HGL). The HGL line delivers temperatures of up to 60°C in the upper part of the buffer tank, while the majority of the energy is used for the heating circuit at around 35°C. The high temperature is transferred hygienically to the fresh tap water in the external plate heat exchanger.

Solar collectors can also be connected to the Hygienik system: the flange with an internal heat exchanger can accommodate small solar systems (with a collector surface up to 12m²).

WE WATCH OVER YOUR HEATING SYSTEMS, EVEN WHEN EVERYONE'S ASLEEP.



SMART NAVIGATOR

As soon as your heat pump is operational and connected to the Internet, your operating data will be available in myIDM. This means that if you experience any difficulties with your heating, our technicians will know about it - normally before you even get cold. By conducting remote diagnostics the issue is solved before it can become a problem.

HEAT PUMPS

Our TERRA heat pumps are a core component of our system technology: they heat, cool and generate hot water from environmental heat. Our heat pumps operate without creating any emissions, and, if you use green energy, are CO₂-neutral. Our heat pumps work more efficiently, thereby saving you energy and money.

THE IDM SYSTEM TECHNOLOGY

Regardless of whether it's our development of hot gas charging technology (HGL), which operates more efficiently than other systems; our stratified storage technology, which ensures perfect use of energy; or our hygienic fresh water technology, which ensures bacteria-free fresh water is ready whenever you need it: our research and development department has been developing solutions that are cherished by our customers for more than 30 years.

COOLING

A pleasant room temperature created by the heating system during the summer, as it also features a cooling function.

ENVIRONMENTAL HEAT

With the integration of other energy sources, such as free solar energy, for example, the decision for an IDM heat pump should be very easy.

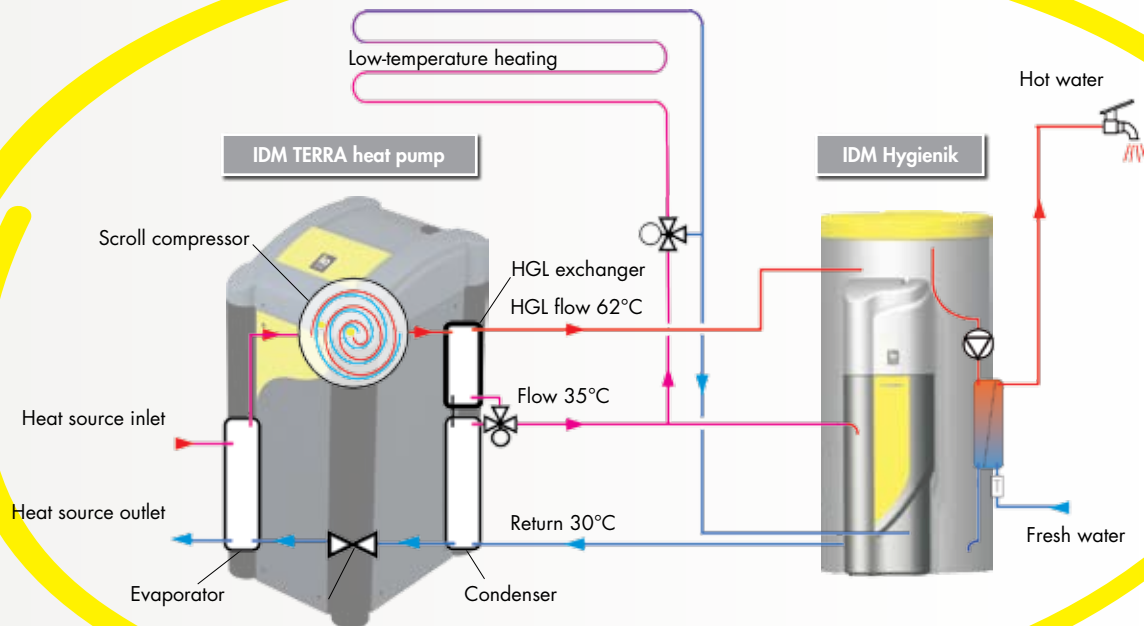


OUR HGL TECHNOLOGY ENSURES MORE ENERGY SAVINGS.

The benefits offered by IDM are evident in numerous technical innovations and unique features.

Such an innovation is HGL technology, which ensures a temperature of 62°C for hot water while the heat pump operates in an energetically perfect mode without any energy loss.

Heating & hot water with HGL technology



REDUCING COSTS:

Because 85% of the energy enters the heating circuit at 35°C. Because the second section reaches a temperature of 62°C, which is made available for hot water preparation via the Hygienik tank with fresh water technology.

