



THE ENERGYFAMILY



HEAT PUMPS FROM AUSTRIA

www.idm-energie.at

iDM - HEAT PUMPS FROM AUSTRIA

WE TAKE CARE OF YOUR WELLBEING

iDM, founded in 1977 in Mauterhorn in East Tyrol has set out to develop, manufacture and market the best renewable heating and cooling systems. Leading technology is available from iDM to sustainably utilise renewable ground source and air source heat pump technology.



1977

Development of heating systems with various heat sources. (iDM 4-seasons-heating.)

1987

Launch of fresh water technology for hygienic hot water.

1997

Specialising in heat pumps for heating, air conditioning and hot water.



KNOW HOW

iDM is technology leader for heat pump systems up to 700 kW thermal power. Being the largest Austrian heat pump manufacturer, we are setting out new standards in quality reliability and efficiency.

40 years of inhouse research and development have led to the iPump as the latest example of our innovation excellence.



iDM is part of the PLETZER Group, a traditional Tyrolean family business. The PLETZER Group was founded in 1964 by KR Anton Pletzer and is now successfully active in the fields of industry, real estate and tourism in the entire Alpine region. More than 800 employees are working in the PLETZER Group.

www.pletzer-gruppe.at

PLETZER
GRUPPE

2007

iDM system technology with Navigator control - heating, air conditioning and hot water with one device. Internet access and smartphone app.

2017

Smart heat pumps with Navigator 2.0 control. The energy manager considers weather forecasts and combines heat pump controllers and individual room control.



WE ARE THE ENERGYFAMILY

AS A TYROLEAN FAMILY BUSINESS, WE LIVE THE FAMILY SPIRIT FROM THE OWNER FAMILY VIA THE EMPLOYEES TO OUR LONG-TERM CUSTOMERS AND PARTNERS.

WE ARE THE
PIONEERS IN THE
RENEWABLE ENERGY
SECTOR.





iDM is THE specialist for heat pumps

- ⊙ Largest Austrian manufacturer of heat pumps
 - ⊙ 40 years of experience
 - ⊙ Inhouse research and development - **i**dea **D**evelopment **M**atrei
 - ⊙ Innovation leader
-



Heat pumps from 2 - 700 kW

- ⊙ From detached house to multi-storey residential building
 - ⊙ From business to industry
 - ⊙ Brine/ground source heat pumps
 - ⊙ Air source heat pumps
-



iDM system technology

- ⊙ HGL technology for increased energy savings
 - ⊙ iDM Hygienik with fresh water station for hygienic hot water
 - ⊙ Navigator control for optimised comfort
 - ⊙ Photovoltaic- and solar integration for enhanced independence
 - ⊙ Smart Grid Ready
 - ⊙ Cooling with heat pumps for enhanced comfort
-



Service

- ⊙ iDM academy
 - ⊙ On site advice & support
 - ⊙ my iDM remote maintenance
 - ⊙ Customer Service
-



Quality

- ⊙ EHPA quality label
- ⊙ MCS certification
- ⊙ ISO9001 QM certification
- ⊙ ISO14001 environmental certification



**GERMAN
DESIGN
AWARD
NOMINEE
2018**



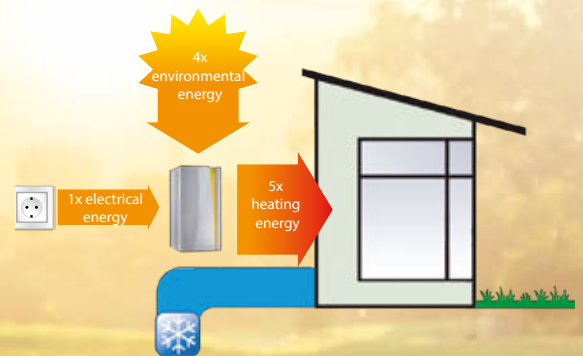
OPERATING PRINCIPLE OF THE iDM HEAT PUMP

Our heat pumps heat large areas in underfloor or wall-mounted heating systems. Our modern heat pumps do not produce on-site emissions.

No soot, smoke or wood dust can impair the air quality. If the heat pump is operated with ecologically-friendly power (e.g. hydropower, photovoltaics), the entire energy generation process is completely free of emissions and is CO₂ neutral. This means the natural resources will still be available for us to use in the future.

Energy from nature is available for free - an advantage that pays off: 4 x environmental energy + 1 x electrical energy = 5 x heating energy
(Transforming renewable energy into heating energy.)

The heat pump works using the same principle as a refrigerator: Refrigerators take heat from food and release it into the room through the back of the unit. The heat pump obtains heat from the air, water or the earth.



$$4 \times \text{environmental energy} + 1 \times \text{electrical energy} = 5 \times \text{heating energy}$$



AIR

Air heat pumps use the ambient energy outside or exhaust air for heating, cooling and preparation of hot water. They are easy to install and almost invisible when placed inside.

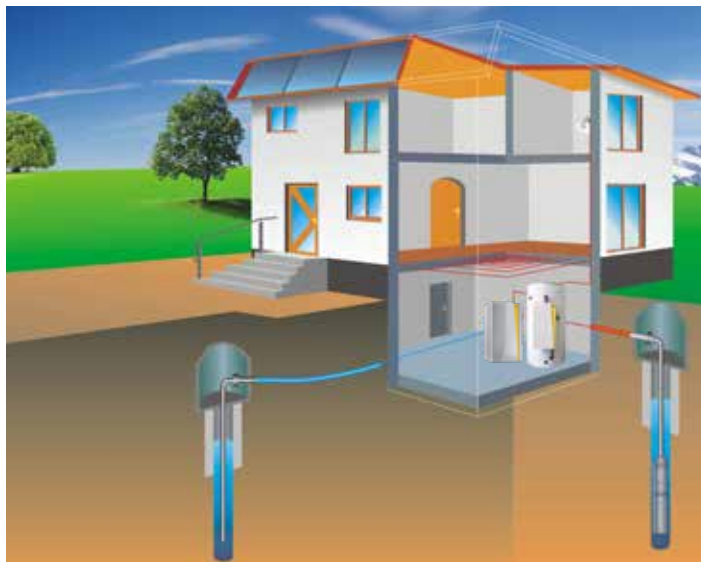
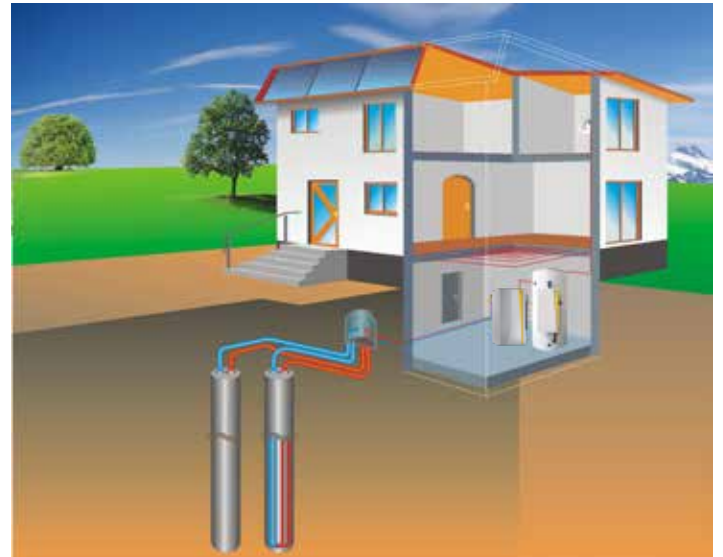




TERRA

Ground source heat pumps utilise the ground for heating, cooling and the preparation of hot water.

Horizontal collector systems as well as borehole systems with closed loops filled with brine are the most efficient way to run heat pumps today and in the future (brine/water).



WATER

Water source heat pumps (water/water) use energy stored in ground, surface or sea water. Where ground water is easily available it is accessed by two drillings.



SUN

Particularly forward-looking and economical is the combination of photovoltaic power and iDM heat pumps with Navigator. The iDM Navigator controls the self-consumption of PV power.



AIR SOURCE HEAT PUMPS

ML 8-18

iPUMP A 2-11

iPUMP and
AERO SLM

AERO SLM 3-17

AERO



reddot design award
winner 2017
IDM iPump A/T



O ILM 2-13

AL 17-32 Twin

AL 60 Max



GROUND SOURCE HEAT PUMPS



TERRA SW 6-17 Complete

TERRA SWM 3-17

TERRA SW 20-42 Tw





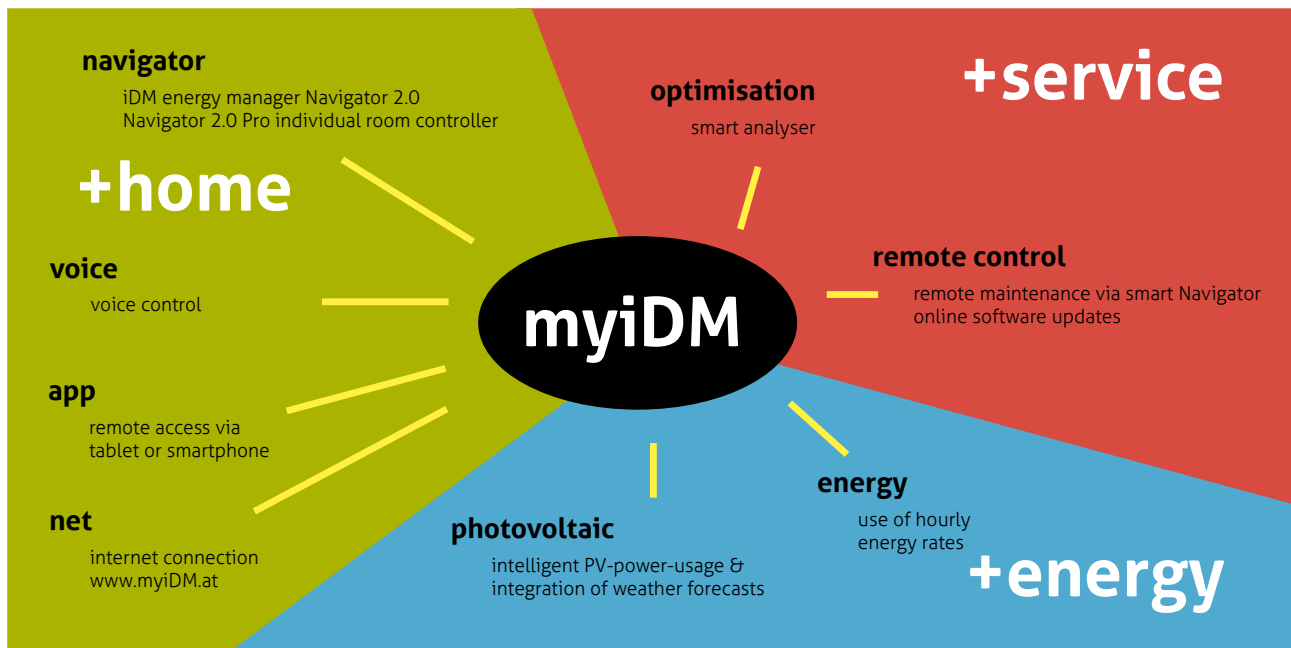
iPUMP T 2-13

TERRA SW Max 50-280 kW



reddot design award
winner 2017
IDM iPump A/T

THE iNTELLIGENT HEAT PUMP



NAVIGATOR 2.0

ENERGY OPTIMISATION AT TOP LEVEL.

The NAVIGATOR 2.0 increases comfort levels and optimises energy usage.

With our all in one Navigator 2.0 heat pump controller you have an individual room temperature control system for heating and cooling.

All your system can be activated to store surplus energy, your command is our highest directive. Energy saving or maximum comfort easy to use software to configure your comfort or savings schedule which times you leave to the system for energy optimization - and all of this individually for every room!



YOUR WELL-BEING IS AT YOUR FINGERTIPS.

- Heat pump manager and individual room controller combined
- Optimises the energy usage in the building
- Learns heat - and cool performance in the individual rooms
- Uses weather forecasts in order to adjust heating requirements and solar power output
- Navigator-App via smartphone, tablet or PC

myiDM+ energy

USE ELECTRICITY WHEN IT IS CHEAP.

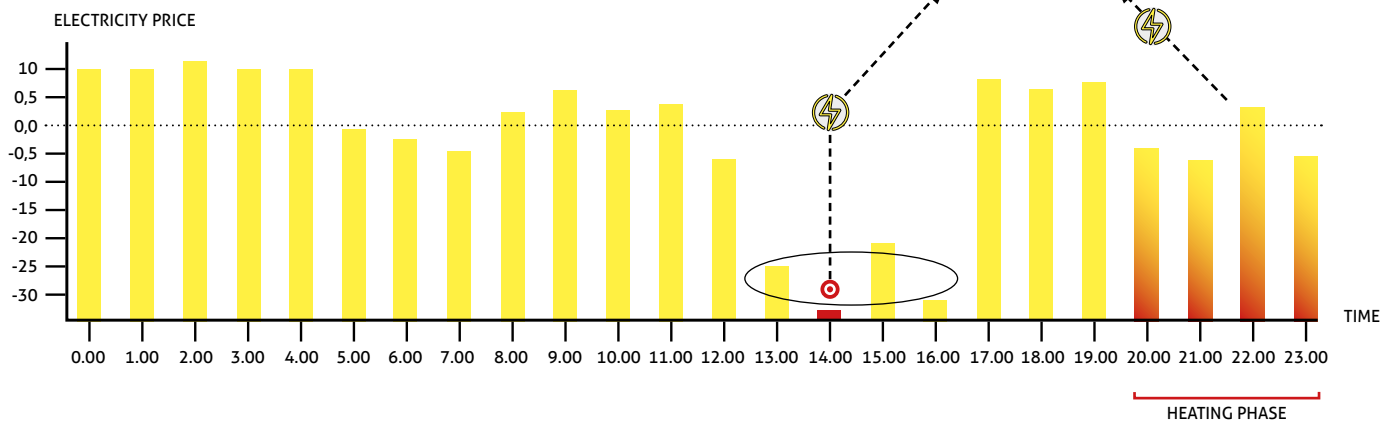


Cheapest electricity price phase:

Our intelligent heat pump fills the heat accumulators (hot water, cooling and heating of the rooms) at times of favorable electricity price phases and therefore needs less energy at peak periods with high current prices. This saves up to 30 % of energy costs.



EXAMPLE OF AN ELECTRICITY TARIFF CURVE:



With myiDM+ energy your heat pump preferably consumes electricity when there is a lot of solar and wind energy in the grid: So you and your home will be part of a growing family of electricity stores, which are urgently needed by the „energy revolution“.

For more information visit www.idm-energie.at

YOUR BENEFITS:

- You increase the renewables energy mix contribution long term significantly.
- No installation fee or long term commitment, monthly basis.
- You use 100 % green, CO₂ neutrally produced electricity from Austria.
- Use your device when electricity is cheap.
- You control your iDM heat pump via smartphone or tablet.
- You know with the iDM Navigator 2.0 one day in advance when the electricity rate is favorable .



iDM HYGIENIK & FRESH WATER STATION 2.0



The iDM Hygienik 2.0 is a heat accumulator and drinking water heater and is suitable for all existing heating systems. The optional iDM fresh water station ensures a comforting supply of hygienic hot water in a matter of seconds.



- ⦿ High corrosion resistance and first class hygienical standard due to stainless steel plate heat exchanger - free of non-ferrous metal
- ⦿ Fresh water technology for hygienic hot water and a high level of convenience

ENERGY SELF-SUFFICIENCY NO FUTURE VISION!

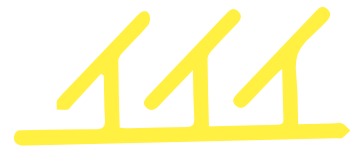


THE COMBINATION OF AN iDM HEAT PUMP WITH A PV SYSTEM IS WORTH IT!

The energy requirement of an average household is about 3,000 kWh of electricity for household appliances & light and 9,000 kWh of heat (about 3,500 kWh of electricity) for the well-being (heating, cooling, hot water).

If an efficient iDM heat pump is used in combination with a PV system, up to 75 % of the energy required is produced!

HEAT PUMP + NAVIGATOR 2.0 + PHOTOVOLTAIC SYSTEM = ENERGY AUTARKY



WATER & BUILDINGS AS ENERGY STORAGE

Surplus energy is stored in buffer tanks or by activating the building structure. Our smart controller is pre-heating or cooling your rooms and buildings according to your preferences.



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