

© stock.adobe.com - Monkey Business

HEAT PUMPS FROM AUSTRIA

www.idm-energie.at

iDM - **HEAT PUMPS** FROM AUSTRIA

WE TAKE CARE OF YOUR WELLBEING.

iDM is located in Matrei in East Tyrol - in the heart of the Hohe Tauern at 1,000 m above sea level. Since our founding in 1977, we are pioneers in the use of natural resources. We develop, produce and distribute efficient, regenerative heat energy systems for the use of environmental energy from the earth, water, air and sun. Our medium-sized family business has made a good name for itself since 1977 - especially with its development expertise and numerous innovations.



1977

The 4-season heater:
iDM was innovative from the very beginning and developed a heating system with a cast-element boiler, solar heat and air heat pump as a hybrid system.

1987

Launch of fresh water technology for hygienic hot water:
Only the actual required quantities of water are heated. Revolutionary at the time, today standard.

KNOW HOW

We are pioneers in the field of renewable energies, build heat pumps with a heating capacity of up to 1,500 kW and are the largest Austrian manufacturer of heat pumps for heating. Through constant research & development, we have been setting the market standards in quality & technology for over 40 years. The iPump ALM is the latest result and a good example of our innovative excellence.







© Gsaller Media

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.

PLETZER GRUPPE

www.pletzer-gruppe.at

1997

Takeover by the PLETZER Group:
A courageous, trend-setting decision was made – specialising in heat pumps for heating, air conditioning and hot water.

1998

Another milestone – the HGL-technology:
A second heat exchanger makes use of the otherwise escaping hot gas - this saves energy and optimises hot water comfort.

iDM **CUSTOMER PROMISE**

WE PROVIDE NEW HEAT, THAT MAKES INDEPENDENT.

We are pioneers in heat pumps.

Our innovative, networked energy management system delivers efficient and clean heat for generations.



2007

iDM Navigator:
The in-house development is more than just a heating control and sets new standards - including individual room control, internet access and smartphone app.

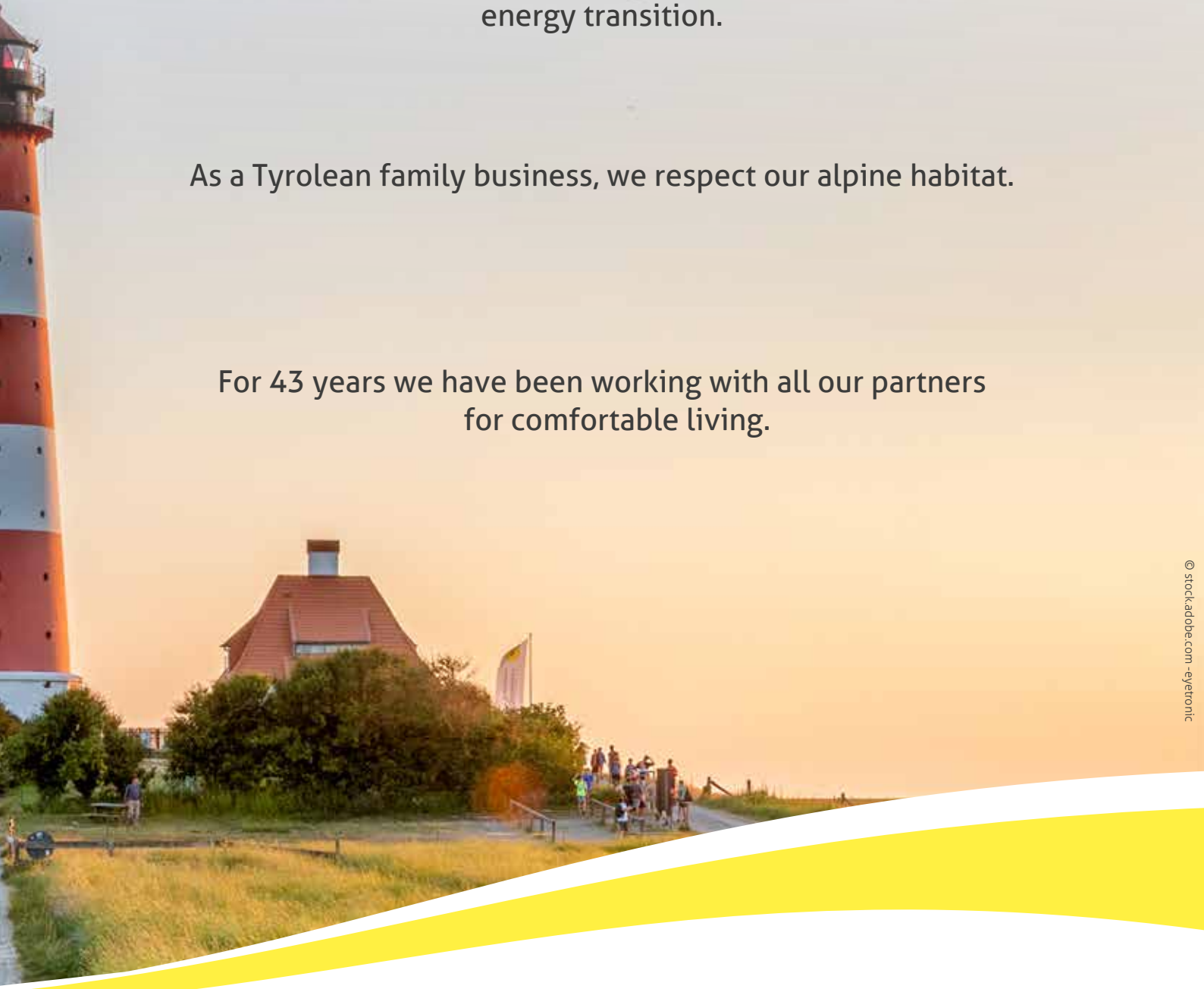
2016

New design for the iDM product range:
In addition to technical optimisations all our heat pumps including iDM hygienic and fresh water stations have received a contemporary facelift.

In this way, we are making a significant contribution to the energy transition.

As a Tyrolean family business, we respect our alpine habitat.

For 43 years we have been working with all our partners for comfortable living.



© stock.adobe.com - eyetronic

2017

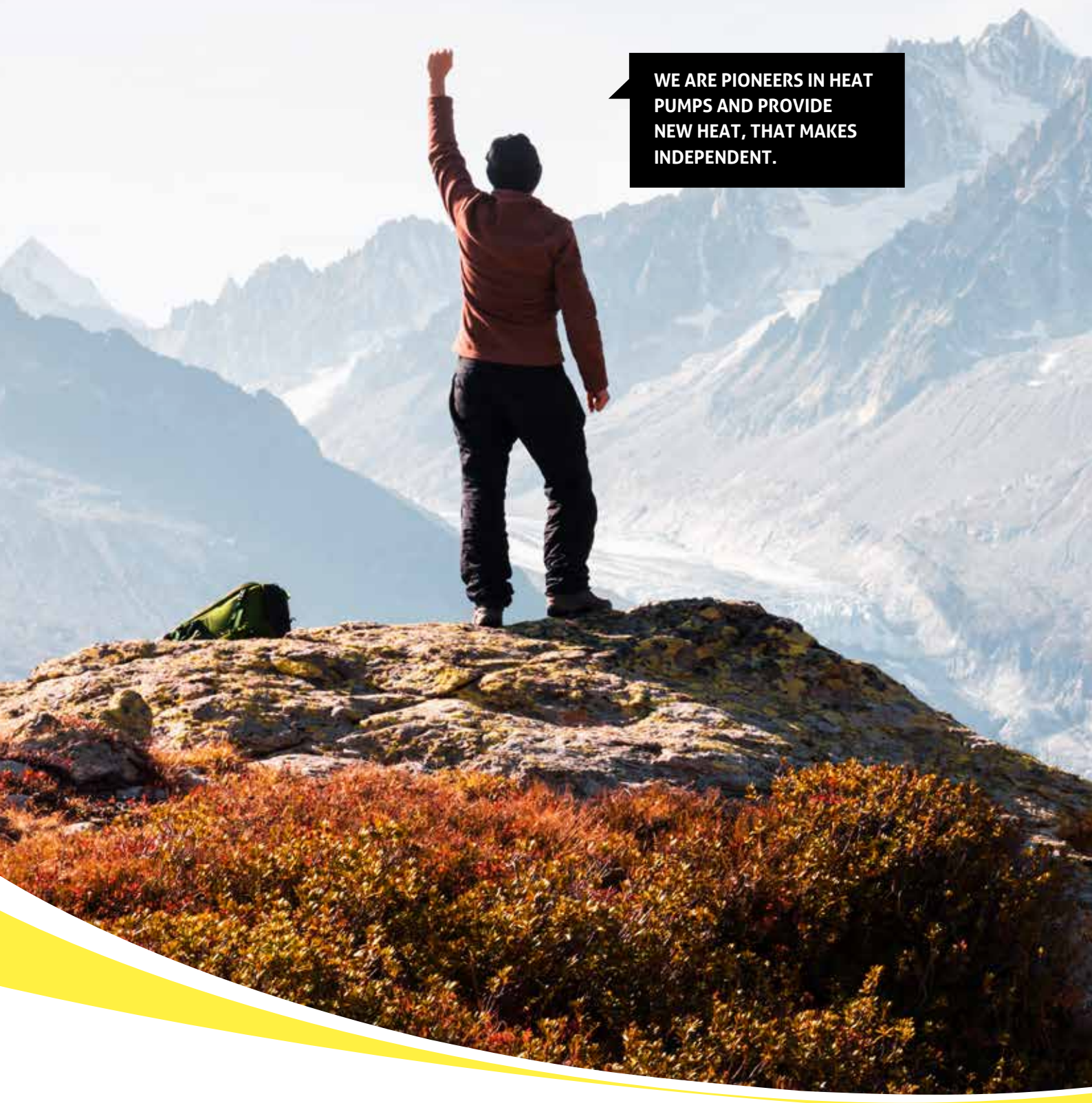
The iDM Navigator 2.0 becomes the energy manager:
Simple, intuitive operation, consideration of weather forecasts, PV and battery integration and use of hourly updated electricity tariffs.

20..

The future:
The intelligent iDM heat pumps are the future solution for sustainable CO_2 reduction. Emission-free, efficient, economical and technically always one step ahead!

WE ARE THE **ENERGY**FAMILY

AS A TYROLEAN FAMILY BUSINESS, WE LIVE THE FAMILY SPIRIT AND TRANSFER IT ON TO OUR CUSTOMERS AND PARTNERS.



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 pump range from 2 - 1,500 kW

- From detached house to multy-storey residential building
- From trade and hotel business to industry
- Brine/ground source heat pumps
- Air source heat pumps

iDM system technology

- Hot gas loading technology (HGL) for increased energy savings
- iDM Hygienik with fresh water station for hygienic hot water
- Navigator energy manager for optimised comfort
- Photovoltaic, battery and solar integration for enhanced independence
- Smart Grid - intelligent power grids - variable electricity prices
- Heating & cooling with heat pumps for enhanced comfort

Service

- iDM academy
- One-site advice & support
- myiDM - Remote maintenance and optimisation
- Factory service

Quality

- EHPA quality label
- MSC certification
- ISO9001 QM certification
- ISO14001 environmental certification

QUALITY SINCE 1977

© stock.adobe.com - Ivan Kmit

HEAT SOURCES



AIR

iDM air heat pumps use the ambient air as a heat source. They are easy to install and almost invisible when installed indoors.



TERRA

Ground source heat pumps (brine/water) use geothermal heat as a heat source. Geothermal heat pumps can operate the whole year with constant temperatures from the ground.

heat sources: © supaCGI

OPERATING PRINCIPLE OF THE iDM HEAT PUMP

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.

Nowadays the heat pump is the only correct form of heating and makes it possible to phase out fossil fuels. This makes the heat pump THE solution of the future for achieving the indispensable energy transition.

WATER

Groundwater heat pumps (water/water) use heat directly from the groundwater via two wells.

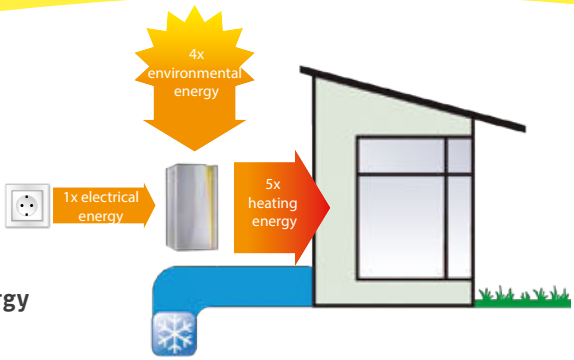


SUN

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.



© stock.adobe.com-Thaut Images



4 x environmental energy + 1 x electrical energy = 5 x heating energy

If the heat pump is operated with green electricity (e.g. hydropower, photovoltaics), the whole process of energy generation is completely emission-free and CO_2-neutral. Therefore, natural resources will be important key factors 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.)

AIR SOURCE HEAT PUMPS

iDM AERO HEAT PUMPS FOR COMFORTABLE LIVING

If you want to heat and cool your home with free ambient air in an economical, efficient and environmentally friendly way, then the iDM AERO air source heat pump is the right solution for you! Whether for indoor or outdoor installation, new construction or renovation - the AERO product family offers the right device for your personal needs.



AERO ILM 2-13

- **Indoor installation**
- **Integrated hot water tank**

AERO ALM 2-15



- **Natural refrigerant**
- **Up to 70 °C flow temperature**

AERO SLM 3-17





- **Highest efficiency through inverter technology**
- **iDM Navigator 2.0 Energy Manager**

© stock.adobe.com - AboutLife

AIR SOURCE HEAT PUMPS



TERRA SW H 10 - 22

TERRA SW 6-17 Complete

- Controlled HGL technology for maximum hot water comfort and durability

TERRA SWM 3-17

- Highest efficiency through inverter technology

iDM TERRA - NATURAL ENERGY FROM EARTH OR GROUNDWATER

Geothermal heat pumps use free environmental energy, operate without emissions in your own home and do not need their own boiler room. You can heat and cool economically and environmentally friendly with one of 150 different iDM TERRA heat pump systems for new construction and renovation.

© istock

TERRA SW 20-42 Twin



The energy from the earth or groundwater is efficiently harnessed for the heating system and domestic hot water heating!

- **Demand-oriented power adjustment through 2 compressors**
- **Double performance, double safety and longer service life**

iPUMP HEAT PUMPS

iPUMP A 2 - 11





- **Compact construction**
- **Heating, cooling & hot water preparation**

iPUMP - the compact all-rounder from iDM

Whether you choose an air, groundwater or geothermal heat pump - with the iPump, iDM has the right compact solution for you. All iPumps also offer an integrated hot water tank!

iPUMP ALM 2 - 12



- **Natural refrigerant**
- **Up to 70 ° C flow temperature**

iPUMP T 2 - 13



- **Small installation area – only 0,45 m²**
- **For single-family house & object building**

© stockadobe.com - picsfive

MAX HEAT PUMPS

MAX HEAT PUMPS - ENVIRONMENTAL HEAT UP TO 1,500 kW

We can also do big! Our Max family offers maximum performance and efficiency. Ideal for residential complexes, hotels and large properties. Our iDM project sales team supports planners and architects with design and planning. With the iDM MAX family, even large buildings can be heated and cooled in a modern, independent and cost-effective way.

TERRA SW Max 35-280 kW



AL 24 - 32 Twin



- **Up to 1,500 kW heating capacity (cascade)**
- **Small installation area - approx. 1 m² for 140 kW**
- **Double safety due to 2 compressors**
- **Quiet running due to „owl wing" technology**



© Klemens König

AL 60 Max



- **Up to 600 kW heating capacity (cascade)**
- **2 compressors for power adjustment and low energy consumption**

NAVIGATOR 2.0

ENERGY OPTIMISATION AT TOP LEVEL.

The NAVIGATOR 2.0 increases your living comfort and optimises the energy usage due to the coordination of the individual room controlling with the heat pump controller.

The result is maximum comfort with low energy consumption - taking into account weather forecasts, user behaviour, building characteristics and electricity tariff! You decide at which times comfort is more important than energy saving, and which times you leave to the system for energy optimisation. And all this individually for each room.

iDM HYGIENIK & FRESH WATER STATION 2.0

The Hygienik 2.0 is a heat storage tank and drinking water heater and is suitable for all existing heating systems. The optional iDM fresh water station ensures cosy and hygienically hot water comfort within 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

© stock.adobe.com -drubig-photo



YOUR WELL-BEING IS AT YOUR FINGERTIPS.

- Combined heat pump manager and individual room controller
- 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 for smartphone, tablet or PC

myiDM +energy

USE ELECTRICITY WHEN IT IS CHEAP.

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.

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**



© stock.adobe.com - Blue Planet

YOUR BENEFITS:

- You make an active contribution to the energy transition that really makes a difference
- You have no installation/installation costs and no loss of comfort
- The contract can be terminated monthly
- You use 100 % green, CO_2 neutrally produced electricity from Austria
- You save up to 200 euros/year
- You control your iDM heat pump via smartphone or tablet.
- With the iDM Navigator 2.0, you know a day in advance when electricity is cheap. (e.g. for programmed washing)

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 + INTELLIGENT ENERGY DISTRIBUTION (F.E. SOLARLOG) = ENERGY SELF-SUFFICIENCY

© stock.adobe.com -Blue Planet



WATER & BUILDINGS AS ENERGY STORAGE

Surplus heat is channelled into the iDM Hygienik buffer storage - to be used if it is needed. Of course, the building is also used as an energy store - the storage mass of the walls, floor and ceilings is heated or cooled during the day.

VIRTUAL iDM HEAT PUMP

IN AUGMENTED REALITY (AR)

The new iDM AR app is available in the Apple Store and in Google Play. A fantastic tool to find the perfect installation location or to examine the iDM heat pump before it is delivered.

Simply search iDM heat pump in the Apple Store or Play Store, select the free „virtual heat pump app" and install it on your Android tablet or mobile phone, iPad or iPhone.

Have fun trying out!

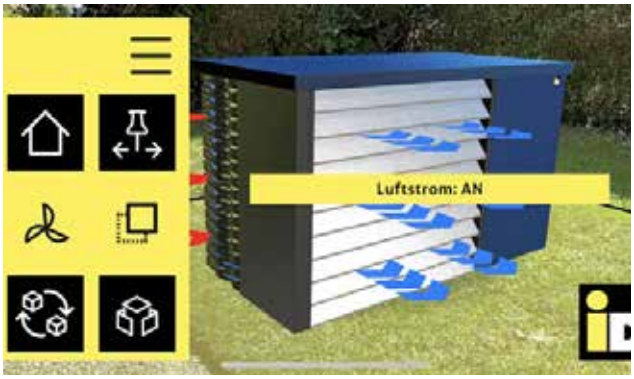










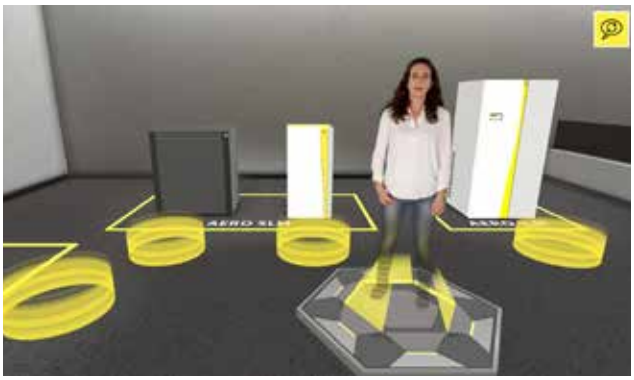


iDM **VR-SHOWROOM**

As a technology leader, we are also innovative in the presentation of our products: **Our VR showroom is ready and can be discovered on our website!** All our iDM heat pumps are briefly presented by an avatar and can be examined from all perspectives. Also the interior of our new iPump ALM can be explored.

From current videos of references over our company history up to a small game - you will find everything you need to know about iDM and our products - virtually and with a 360° all-round view. You can find the VR-showroom on **www.idm-energie.at** or at the following direct link: **https://vr.idm-energie.at/Showroom_WebGL/**











© stock.adobe.com - adam121



© iDM ENERGIESYSTEME GMBH
Seblas 16-18 | A-9971 Matrei in Osttirol
www.idm-energie.at | team@idm-energie.at

Bilder © adobe.stock.com
11.2021/8183881 • iDM overall brochure • Changes and errors excepted.