

iON MINIMIZES TOTAL OPERATING COSTS!

The intelligent iDM heat pump guarantees the optimum operating point at all times thanks to the innovative iDM control technology (Navigator 2.0). With iON, we go one step further: based on weather forecasts, variable electricity prices and the historical load profile, we control your heat pump so that it achieves the best possible efficiency, makes ideal use of photovoltaic yields and minimizes your overall energy costs.



iNTELLiGENT CONNECTIVITY OF ALL COMPONENTS

The iDM heat pump pioneers have already perfected the efficient supply of heat with the **intelligent heat pump**. Intelligently linking it with **photovoltaic systems**, **battery storage** and the **building structure**, makes it possible to comprehensively optimize the areas of heat and electricity. This leads to linking of sectors which in turn raises the efficiency and sustainability to a new level.



Your intelligent heat pump is compatible with many common inverters and energy management systems. You can find more information on www.idm-energie.at/en/photovoltaic-interfaces/

iNTEGRATION OF EXTERNAL DATA

When there is a high supply of renewable energy - such as wind and solar - electricity prices on the day-ahead market fall. These favorable conditions are passed on to end consumers through **variable hourly electricity tariffs**. iON goes one step further, however, and takes into account the **efficiency***) of your heat pump as well as the expected yield of your **photovoltaic system**. Thus iON maximizes your energy efficiency and minimizes costs.

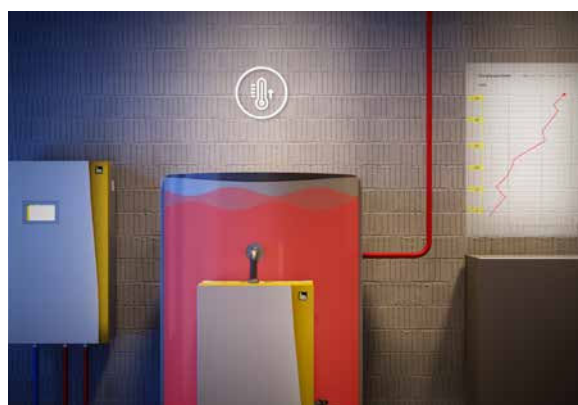


ELECTRICITY TARIFF + EFFICIENCY* + PV YIELD



iON DETERMINES THE OPTIMUM TIMING

*) The efficiency of air source heat pumps is heavily dependent on the outside temperature. Switching based purely on electricity prices may increase costs.



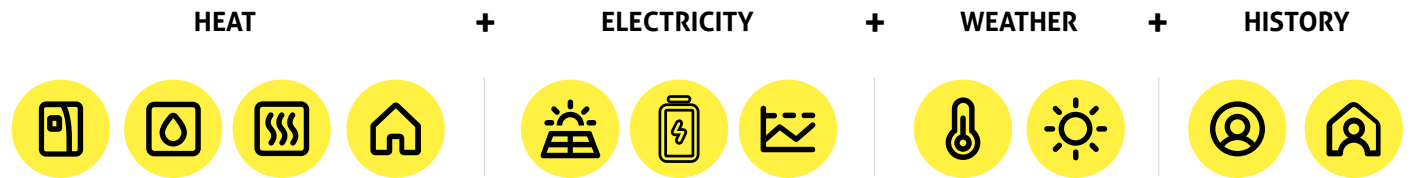
USER BEHAVIOUR ANALYSIS AND USING THE BUILDING AS ENERGY STORAGE

By intelligently linking the heat and power supply, iON also takes into account the historical **usage behavior** of the residents (such as hot water consumption) and the **thermal behavior of the building** (e.g. heating and cooling behaviour). As a result, iON always determines the optimum time for heating, cooling and hot water preparation.



SAVE UP TO 20% IN COSTS WITH MAX. COMFORT.

A COMPREHENSIVE OPTIMIZATION FOR ALL YOUR ENERGY RELATED FACTORS



= UP TO A 20% SAVINGS IN COSTS WITH MAX: COMFORT*)

*) Compared to similar systems without iON

NO ADDITIONAL HARDWARE NEEDED

Many energy management systems require the purchase and installation of additional hardware. With iON, on the other hand, this is not needed. All the necessary components are already built into the intelligent heat pump from iDM. Simply install the iON software to get started!*

*) iON is currently not available for all iDM heat pumps.



REDUCES THE CARBON FOOTPRINT

If a high volume of renewable energy from wind, sun and water is available, you not only benefit from favorable electricity prices, but also from significantly lower CO₂ emissions. This means you save twice: both on electricity costs and on CO₂ emissions!



CONTRIBUTE TO THE STABILITY OF THE ELECTRIC GRID

By avoiding price peaks, iON also helps to reduce load peaks. This means that your heat pump is being operated in a gridfriendly manner and contributes to the stability of the electricity grid.



EVERYTHING AT A GLANCE

iON minimizes your heating costs automatically. Nevertheless, you can use the iON app to ensure that your intelligent heat pump is working properly at any time - even when you are on holiday.

Discover more details and visit our website now - www.idm-energie.at/en/ion/

