WP-OPT© - a software to design and simulate heat pump heating systems

<u>Short description</u>

The simulation software WP-OPT© helps you to design heat pump heating systems. Additionally you can compare different heating system configurations concerning the operating results.

Suggestions about the operating behaviour and the efficiency of the heat pump heating system are very difficult to make without a computer-based simulation. That is because the technical parameters of heat pump, heat source and heat delivery influence each other. Our software uses an iterative approach to calculate the temperature curve of the heat source caused by the heat withdrawal. Depending on the technical parameters of the heat pump, the current heating water temperature and the heat source temperature the running time and the power consumption of the heat pump are calculated. They are the basis for calculating the coefficient of performance (COP) and for providing a comparison of operational costs to conventional heating systems.

Water-water, air-water and brine-water systems (the latter also with direct evaporation) are possible as well as systems with bivalent and monoenergetic mode of operation.

Naturally our software assists you in designing a heat pump heating system. Warnings appear when input or result data are out of given ranges.

The software WP-OPT© comes with a database of 1100+ heat pumps, climatic data of 37 European countries and material data of 60 kinds of ground. Moreover you can extend the database with your own data.

Additional modules extend the functionality of the program. For example the 'Solar module' allows the consideration of the usage of a solar thermal system for hot water service, heating support and increasing the heat source temperature.

You can also display and print several reports showing all the input and result data. It is no problem to create reports for your special use on your own.

WP-OPT© is available as full version (for professional use) and as express version (for educational and private use). The express version is limited in many ways. Please see our web site for details.

<u>How to order</u>

You can send your order in any way.

Email   info@wpsoft-gmbh.de

Fax   +49 / 221 82919092

Please don't forget to note if you want full or express version. And (when choosing the full version) if and which additional modules you want.

The standard version is shipped with climate data for 37 European countries. If you need climate data for other countries, please let us know. We'll send you an offer for these.