

Vaillant heat pumps are ready for smart grids

Increase your self-consumption

The surplus electricity generated by the photovoltaic system can be used for a heat pump. This means that solar energy is not only used in your own household, but thanks to the technology of the heat pump technology, it is also efficiently converted into heat and stored at the same time. As a result, the energy produced by the photovoltaic system is put to optimum use, and you can utilise more of the energy you produce yourself. Thanks to the Smart Grid Ready contacts on Vaillant heat pumps, the heat pumps will always use the electricity from their own photovoltaic (PV) system photovoltaic (PV) system, instead of feeding the electricity into the public electricity grid for a small fee. With Smart Grid Ready contacts, you can ensure that the heat pump consumes electricity at the same time as photovoltaic photovoltaic production. The heat pump will then store this electricity in the form of heat for later use. heat that can be used at a later date

Ready for the smart grid

The SG Ready (SG = Smart Grid) or PV ready label is awarded to heat pumps, with a control mechanism that allows individual heat pumps to be integrated into a smart grid. The surplus electricity generated by the photovoltaic system can be used to run a heat pump. This means that solar energy is not only used in your own household, but thanks to heat pump technology, it is also efficiently converted into heat. heat pump technology, it is also efficiently converted into heat and stored at the same time. As a result, the As a result, the energy produced by the photovoltaic system is put to the best possible use, and you can use more of the energy than you would otherwise. more of the energy you produce. No Internet connection, radio or application is required for this efficient self-consumption of energy. All you need is a management system. Based on the status "closed" and "open", it is decided whether the solar energy should be used in your own home. When the status is "closed", the hot water tank is charged and the photovoltaic energy is used efficiently. When it is open, charging of the domestic hot water boiler is interrupted and the energy from the photovoltaic system is not used.

Management system

When it comes to energy management, you need a "bigger" solution, because the data from the various components of home technology need to communicate with each other in order to carry out the desired actions. This is where Home Energy Management Systems (HEMS) are used, aimed at economical use of energy and cost-saving work. and cost-saving work

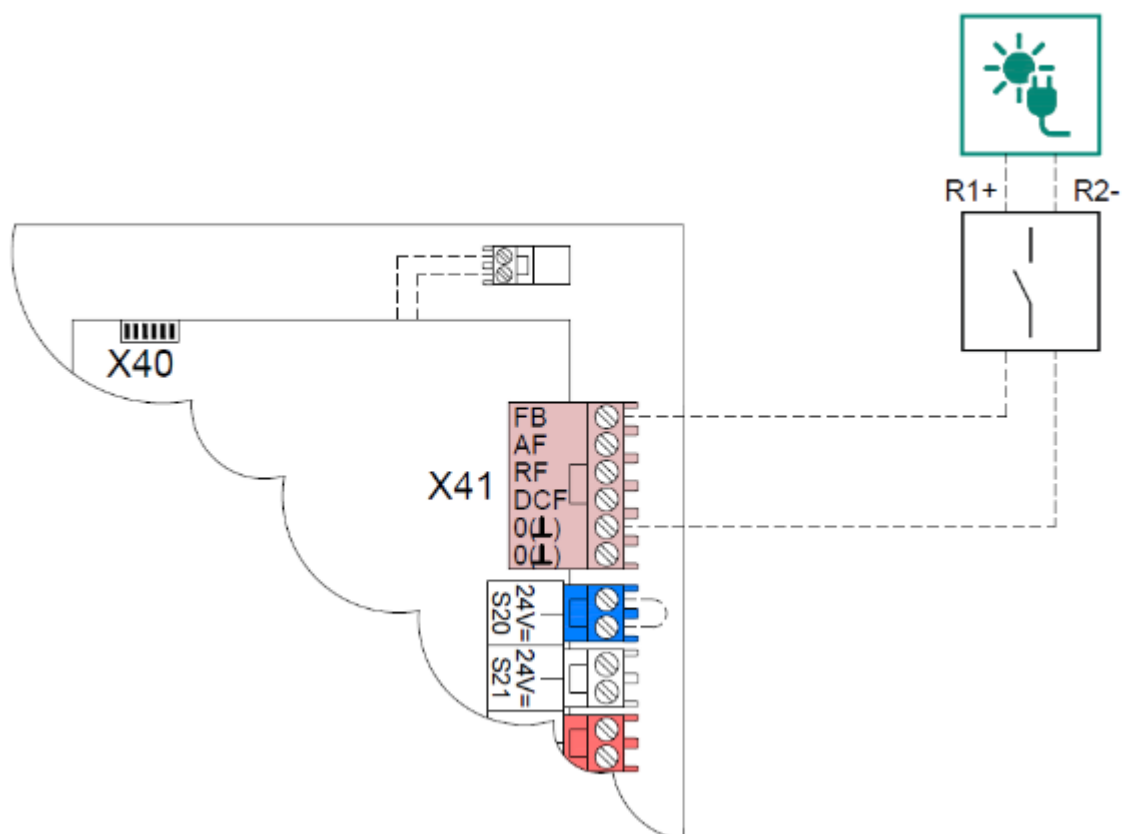
Contact PV Vaillant heat pumps

How it works: The system stores energy in the hot water boiler by activating 1x boiler load until the desired temperature set in the VRC 700 / sensoCOMFORT VRC 720 is reached. In the case of production of domestic hot water, the 1x boiler load function has priority over the times set for hot water. for hot water. Cylinder charging takes place outside the defined time periods. Tip : programme the times from 3pm so that the heat pump can store as much heat as possible in the hot water boiler. as possible in the domestic hot water boiler. The system will then store energy in the buffer (if applicable) by increasing the temperature to the desired value set in the VRC 700 / sensoCOMFORT VRC720 control. If there is no demand for heat, the setpoint will not increase.

Applicable for heat pumps :

aroTHERM /6 (UNITOWER / MEH)

- aroTHERM /5
- flexoCOMPACT /4
- flexoTHERM /4



The "FB and OT" contact of socket X41 on the printed circuit board

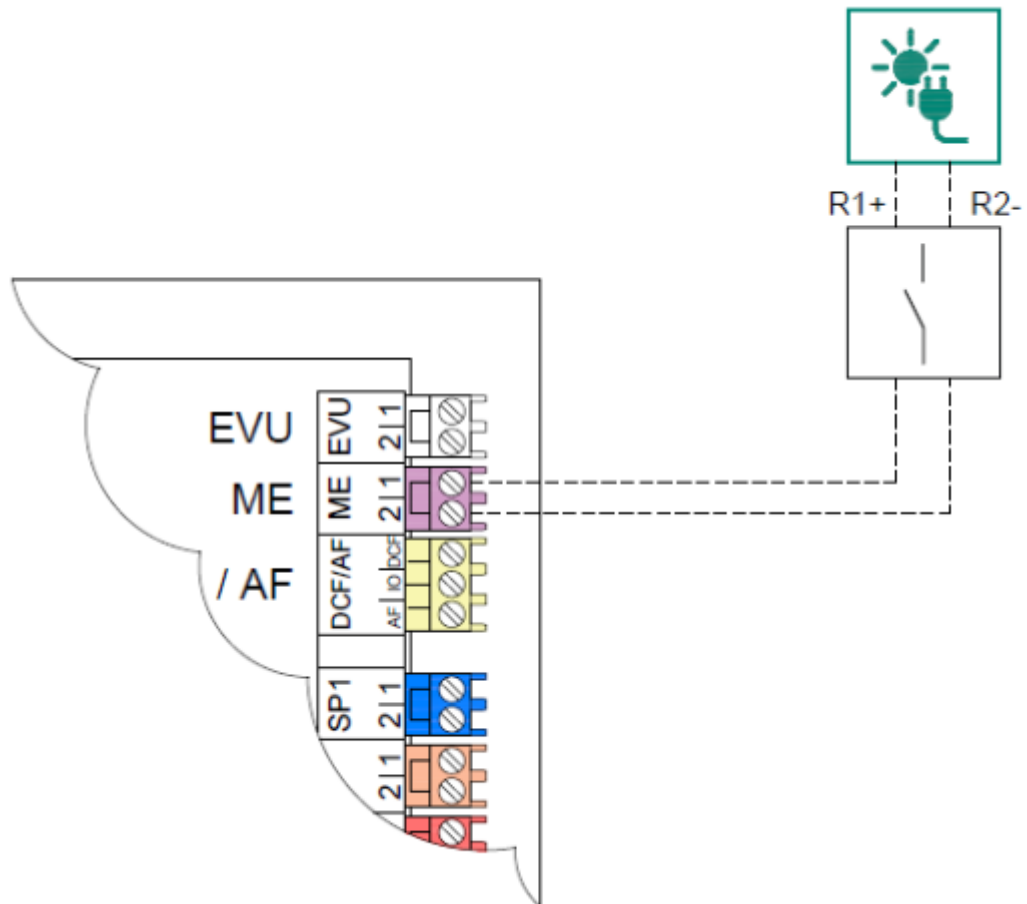


Applicable for heat pumps

- aroTHERM /6 (VWZ AI)

- aroTHERM /2

- aroTHERM /3



ME terminal block (Multifunction contact)

