NEOOL

PHOTOVOLTAIC

NEX R-SERIES

Easy installation

Simple plug & play solution for direct use of DC power from photovoltaic modules

Reliable

High quality components enable reliable hot water supply: Near & far from the grid

Save money

Reduce your energy costs for hot water by up to 300 € per year

Flexible use

Works with direct & alternating current and decides independently, which source is used. Solar is always preferred

Hot water for a cool planet!

NEOOL

Photovolthermic AG

SPECIFICATION

NEX R1

NEX R2

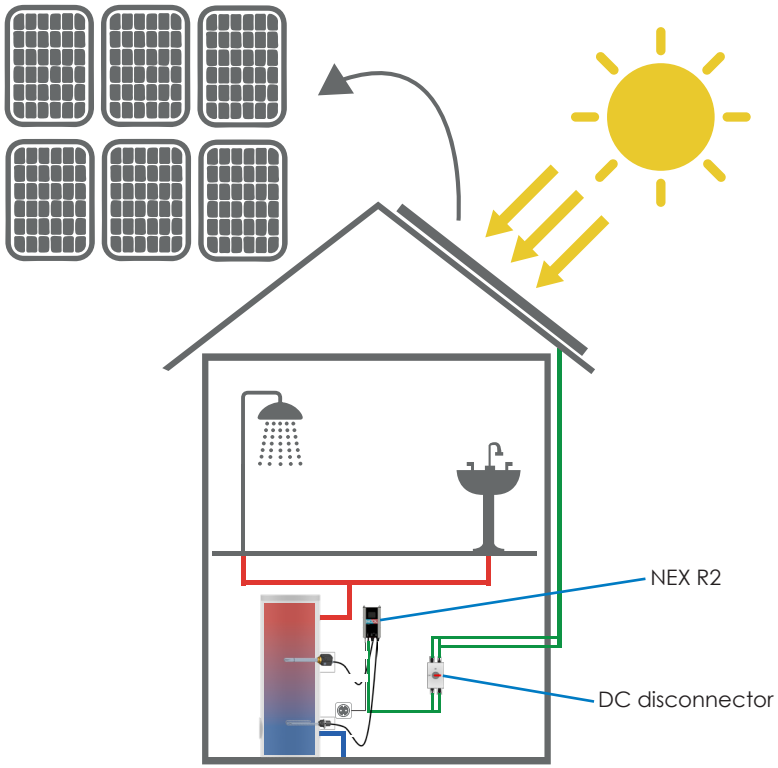
Number of heating elements	1 screw-in heater	2 screw-in heaters
Heating element		
Heating element type	Screw-in heater	
Max. heating power	1.5 kW	
Screw-in depth	350 mm	
Sleeve size	1 1/2“	
Electrically insulated	✗	
Photoltaic specifications		
Maximum usable power	1.5 kW	
Minimum PV nominal voltage	100 V	
Maximum PV open-circuit voltage	300 V	
Maximum PV short-circuit current	15 A	
PV connections	MC4	
MPP tracking included	✗	
Grid connection (optional)		
Input voltage	230 V	
Input frequency	50-60 Hz	
Features		
AC-ready	✗	✗
Legionella programme	✗	✗
Two-zone heating		✗
PV installation		
Recommended installed PV power	2.4 kW	

WHAT IS THE NEX R-SERIES?

The Nexol solar water heaters can heat your shower water using only the connected photovoltaic modules (e.g. 6 modules of 380W each). On bad solar days, it is possible to automatically reheat the shower water via the grid. The touch display allows you to customize the Nexol Energy Controller to your needs.

The use of two screw-in heating elements in the NEX R2 enables two-zone heating of the tank. This ensures maximum comfort for the user with minimum consumption of grid power.

The NEX R-Series can be used for a wide range of applications. Our products can replace both electric and gas boilers or be used to support the heating system. In summer, the heating can be switched off with a good conscience and the NEX R appliances provide a daily hot shower!



THE ADVANTAGES OF THE NEX R-SERIES

- Independence from rising energy prices (up to 80% solar coverage)
- Lower investment costs, as cables are laid instead of pipes
- Easy installation (Plug and Play)
- Easy to retrofit into any 1 ½“ screw-in sleeve can be retrofitted
- Use your solar power directly and without an inverter
- No registration or bureaucracy necessary

THE NEX R-SERIES IN COMPARISON

	NEX R1 NEX R2	Solar-thermal	Heat pump	Electric boiler
Low storage losses	✓	✗	✓	✓
Easy one-person installation	✓	✗	✗	✓
Low energy requirement	✓	✓	✓	✗
Use of renewable energy	✓	✓	✗	✗
Functionality with only a few hours of sunshine	✓	✗	✓	✓
Low maintenance	✓	✓	✗	✓
Purchase price (for comparable quality)	MEDIUM	High	High	Low
Operating costs	Low	Low	Medium	High

WHY A NEXOL DEVICE IS WORTH IT

Depending on the energy source, there are different savings potentials. However, it can be summarized in the following key figures:

75%

Up to 75% less energy costs compared to e-boilers, which equates to savings of up to 300€ per year.

50%

Up to 50% less energy costs compared to gas boilers, which equates to savings of up to 150€ per year.

90%

Over 90% utilization of the solar power generated.

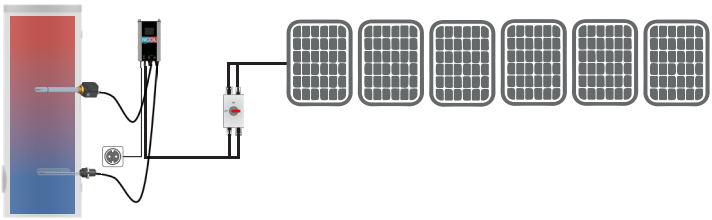
QUICK AND EASY TO INSTALL

The Nexol NEX R1 and NEX R2 solar water heaters are convincingly easy to install.

The photovoltaic modules are connected directly to the Nexol Energy Controller using MC4 connectors.

The Energy Controller is also supplied with power from the grid via a power plug.

After installation in the hot water tank, the screw-in heaters are connected to the Energy Controller via a plug.



THE TWO-ZONE HEATING (NEX R2)

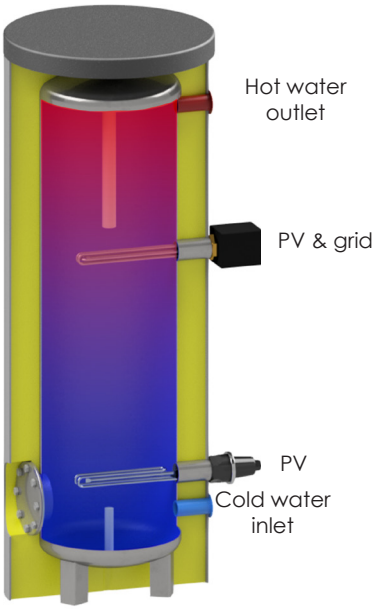
Upper zone

First, the upper zone of the storage tank near the hot water outlet is heated to 65°C. This enables fast hot water withdrawal. PV is prioritized as operating source.

In case of low solar radiation, the intelligent system reheats the upper zone of the water through the network. Thus, as little grid power as possible is used to provide hot water since only the upper zone needs to be heated for this purpose.

Lower zone

As soon as the upper zone has reached its target temperature, the system switches to the lower screw-in heater and thus heats the entire storage tank. The energy generated by the PV panel is stored in the water.



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