



NEOL

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



NEOL

Photovolthermic AG

Hot water for a cool planet!

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



Photovoltaic 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

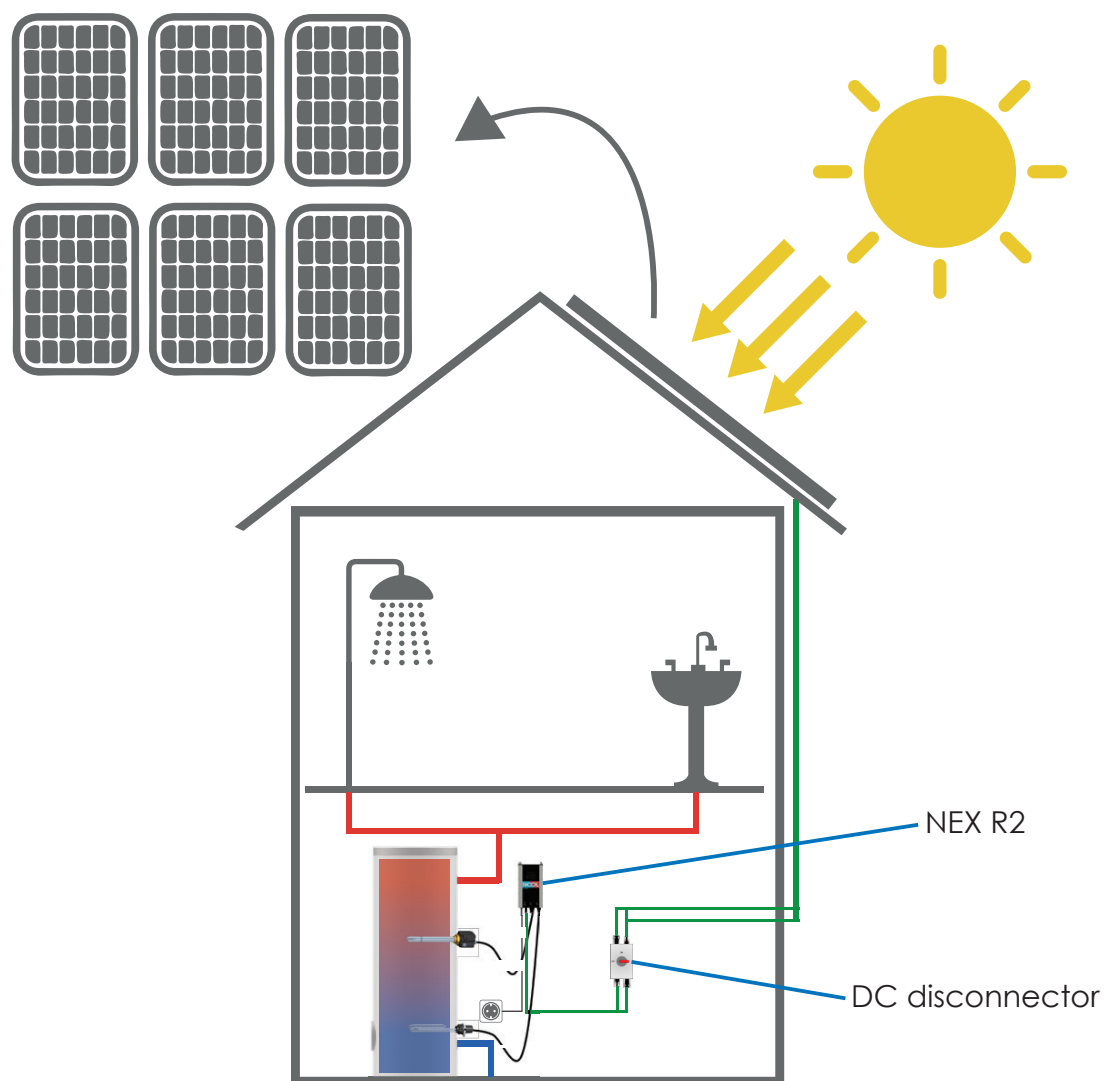
2.4 kW

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

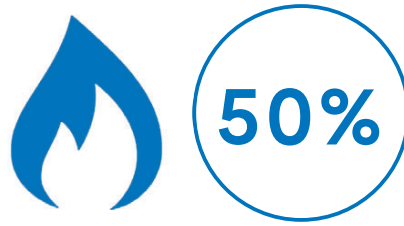
	NEX R1 NEX R2	Solar- thermal	Heat pump	Electric boiler
Low storage losses	✓	✕	✓	✓
Easy one-person installation	✓	✕	✕	✓
Low energy requirement	✓	✓	✓	✕
Use of renewable energy	✓	✓	✕	✕
Functionality with only a few hours of sunshine	✓	✕	✓	✓
Low maintenance	✓	✓	✕	✓
Purchase price (for comparable quality)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

WHY A NEXOL DEVICE IS WORTH IT

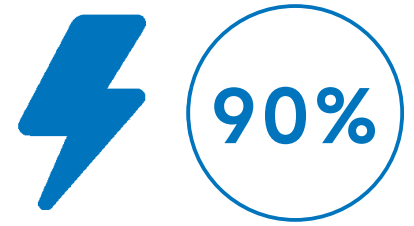
Depending on the energy source, there are different savings potentials. However, it can be summarized in the following key figures:



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



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



Over 90% utilization of the solar power generated.

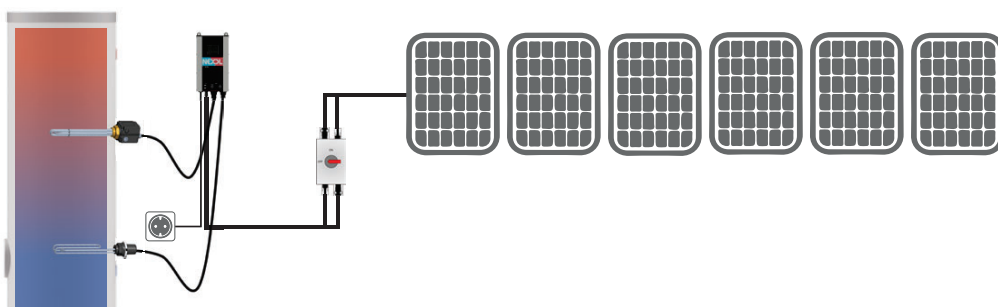
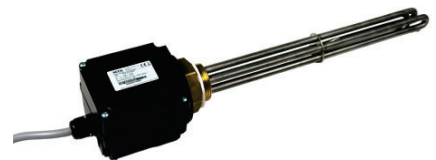
QUICK AND EASY TO INSTALL

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)

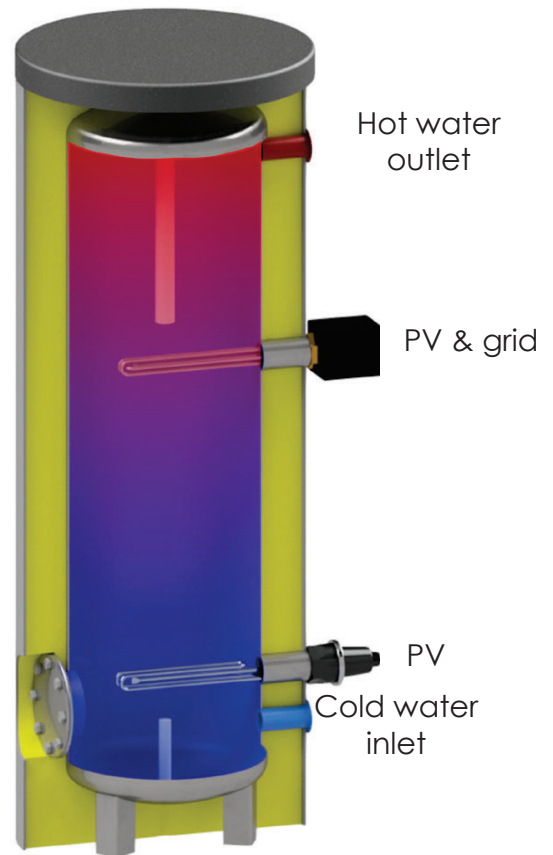
Upper zone

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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