

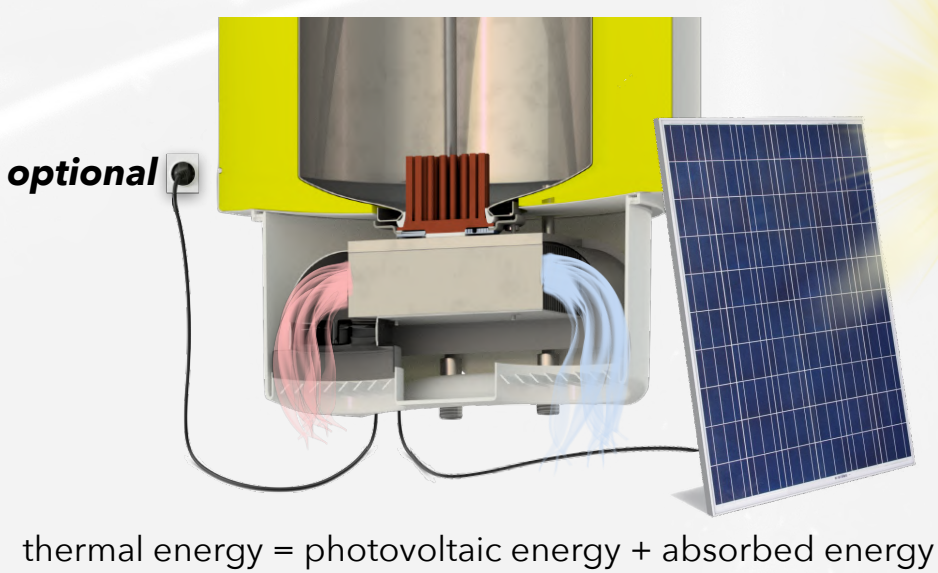
EFFICIENT WALL MOUNTED SOLAR WATER HEATER



OUR PRODUCT

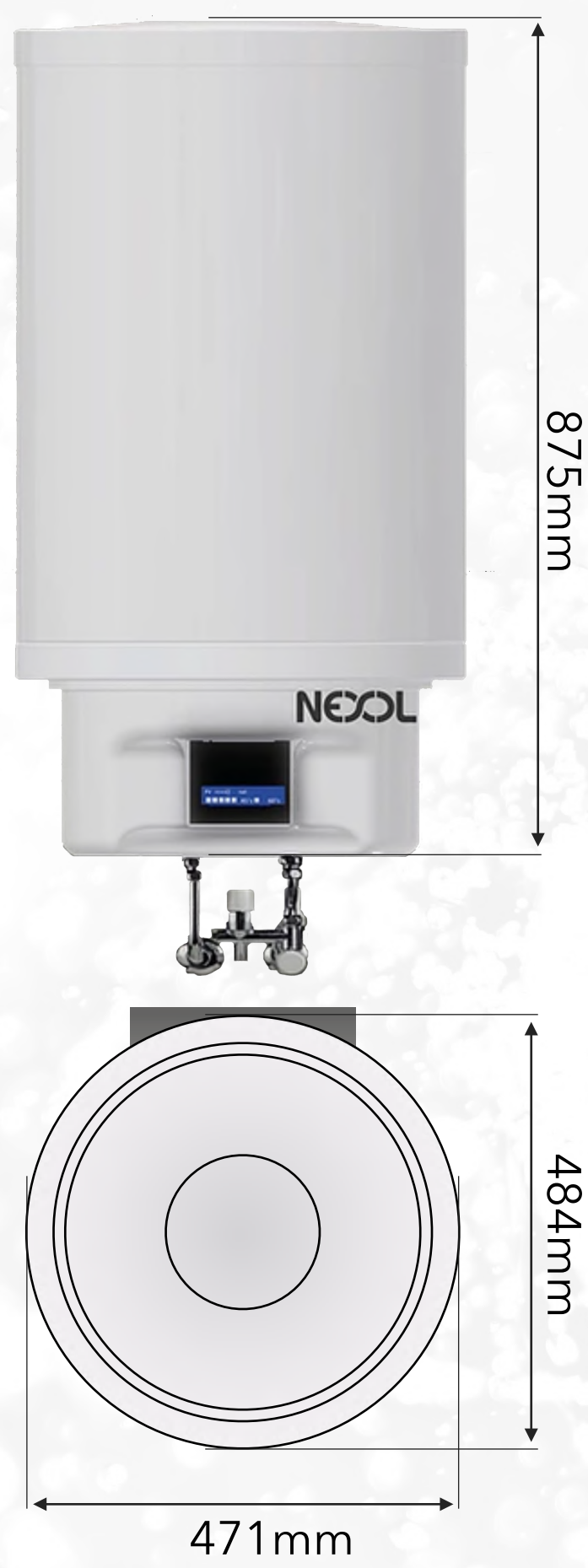
The NEXOL solar water heater **NEX-P40** works with a **thermoelectric element** which makes it possible to harvest **thermal energy from the environment**. By using that additional energy, we assure that the electric energy coming from the photovoltaic panel is enough to heat up the water, even when the boiler is not connected to the grid. That's why our product is especially designed to run with solar energy coming from PV-panels. The perfect combination of the **thermoelectric element** working together with the photovoltaic panel is what we call the **photovolthermic principle**.

Thanks to the design of the **NEX-P40** with a low number of moving parts it has low maintenance costs and a long lifespan. Also, for installation you do not need any more than a cable straight to the PV-panel and a water supply. This leads to an easy installation and therefore lowers the installation costs.



	NEX-P40	solar thermal	heat pump	electric boiler
Low storage losses	✓	✗	✓	✗
Simple one-man installation	✓	✗	✗	✓
Low energy requirement	✓	✓	✓	✗
Off-grid operation possible/use of regenerative energies	✓	✓	✗	✗
Functionality with only a few hours of sunlight	✓	✗	✓	✓
Low maintenance	✓	✓	✗	✓
Purchase price (for comparable quality)	medium	high	high	low
Running costs	low	low	medium	high

* Depending on ambient temperature and solar radiation.



Water Capacity [L]	40
Design	Wall-mounted
Heating Element	Copper
Heat Source	Thermoelectric Heat-Pump
Dimensions (h x d x) [mm]	875 x 484 x 471
Empty Weight [kg]	24
Maximum Power Consumption Heat-Pump [W]	210
Maximum PV-Input [W]	330
Maximum PV open circuit voltage [V]	48
Maximum PV short circuit current [A]	14
PV terminals	MC4
MPP-Tracking	Included
Maximum pressure [Bar]	7.5
Average COP [-]	2
Maximum Water Temperature [°C]	65
Mean heating time (15°C to 50°C at 80 W input) [h]	10
Average temperature loss after 8 hours [°C]	2.65
Water connection ["]	½"
Grid-Connection (Optional)	
Converter Input Voltage [V]	110-230
Converter Input Frequency [Hz]	60-50
Converter AC Terminal	C6
Converter Output Voltage [V]	19
Converter Output Current [A]	4.75
Input Terminal [mm]	5.5 x 2.5

- 1 high efficient copper heat exchanger
- 2 OLED display
- 3 high quality stainless steel tank
- 4 air inlet/outlet
- 5 wall bracket

