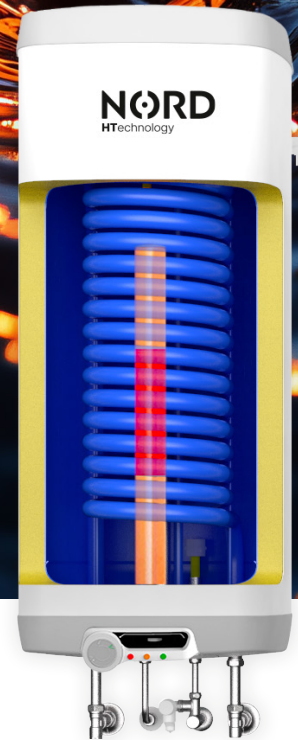




# NORD EcoBoiler Hybrid

Storage tank with dynamic electric stratified heating and a 1.45 m<sup>2</sup> heat exchanger for efficient hot water production by photovoltaics and heat pump



NORD EcoBoiler Hybrid with patented heating technology ▶



### STRATIFICATION STORAGE TANK WITH OPTIMISED SECTORS AND COMFORT ZONE

The optimised distribution of the storage zones always maintains sufficient hot water while making efficient use of your photovoltaic power plant.



### DIVIDED HEATING ZONES ALLOW SMALL CHARGING CAPACITIES OF THE HEATING RODS

By segmenting the volume of the storage tank, a reduction in charging power is achieved without having to compromise on hot water availability.



### OPTIMAL USE OF PHOTOVOLTAICS EVEN ON LESS SUNNY DAYS

The low charging power allows you to use your photovoltaics efficiently without having to draw additional energy from the grid, even during the winter months.



### EFFICIENCY UP TO 70%

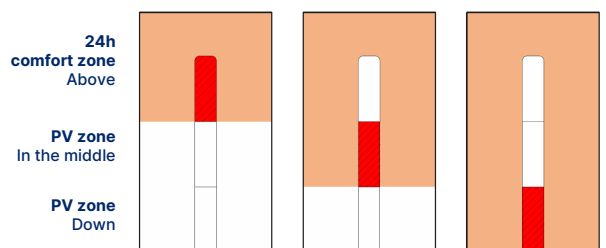
When operating purely with a 1.5 kWp photovoltaic system, a self-sufficiency of more than 70% in energy needs is possible.



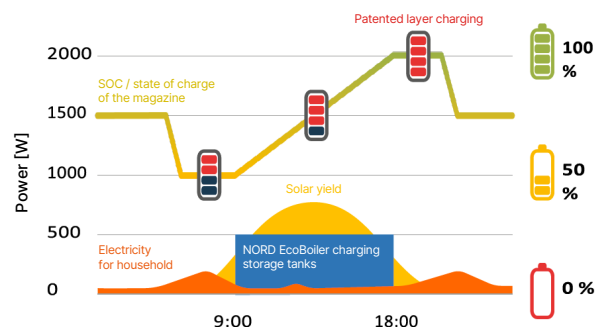
### POSSIBILITY OF HEATING VIA HEAT PUMP

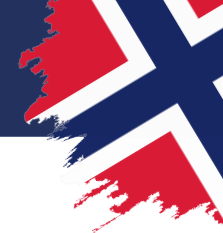
The EcoBoiler Hybrid 160 has a heat exchanger with a surface area of 1.45m<sup>2</sup>, thanks to which the boiler can be heated very quickly by an external source.

### NORD EcoBoiler Hybrid 3-zone hot water preparation



### NORD EcoBoiler Hybrid - daily cycle





## TECHNICAL DATA

### NORD EcoBoiler Hybrid

160

Accumulation tank material	Steel, enamelled, with protective anode
Storage tank volume [l]	150
Dimensions H × W × D [mm]	1235×520×550
Heat exchanger surface	1,45m <sup>2</sup>
Heat exchanger volume [l]	9,5
Max. permissible operating pressure [bar]	6
Cold water test pressure [bar]	9
Max. operating temperature [°C]	90
Weight [kg]	79
Insulation of the storage tank	Pressurised PU rigid foam, Freon-free
Load profile	M
Energy label incl. PV	A (1,5kWp, 1,2kWp), C (0,9kWp, 0,6kWp)

### VESTABLE

Control flange	Inner diameter 150 mm
Display elements	Multicoloured signal lights for all heating zones, thermometer (analogue)
Electric heating element	Patented electric heating element, 3-stage (EcoBoiler 160) / 2-stage (EcoBoiler 140 Flat / 140 Flat+), 24h comfort zone on top: 1000 W, PV zone in the middle and bottom: 500 W each, installation in a shell and tube welded with a flange cover. Including thermostatic control with layer charging and safety temperature limiter on all poles (95%) as well as integrated control relay (230 V, 1~) per PV zone.
Operating elements	Front panel control: infinitely variable temperature control of 24-hour comfort range with energy saving and frost protection settings.
Heat exchanger	Smooth tubular heat exchanger, permanently welded. Surface area 1.45 m <sup>2</sup> , volume 9.5 litres.

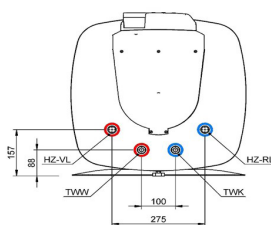
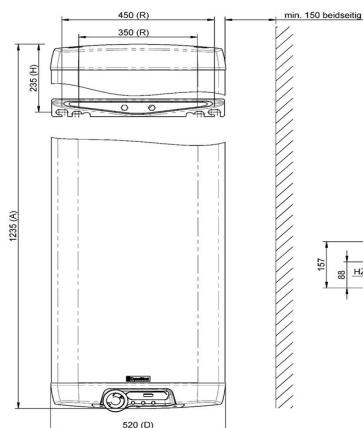
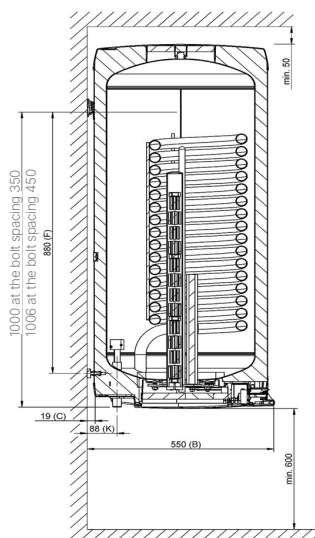
### CONNECTIONS

Cold water	DN20 - 3/4" AG thread seal
Hot water	DN20 - 3/4" AG thread seal
Heating water flow rate	DN20 - 3/4" AG thread seal
Heating water backflow	DN20 - 3/4" AG thread seal
Electrical connection	Power supply terminal block 230 V, 1~, max. 2 kW; terminal block - PV zone connection 230 V, 1~, (internal relay)
Grounding	Via connection cable

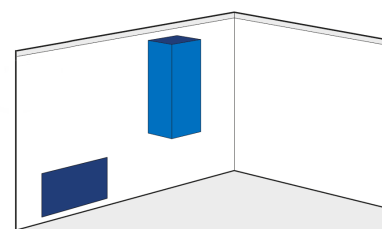
### AVAILABLE ACCESSORIES

Recommended accessories	Hanging tank connection kit including safety group.
Optional accessories	Heat exchanger connection kit.

### NORD ECOBOILER HYBRID INSTALLATION



Hanging storage tank with hydraulic module



NORD EcoBoiler Hybrid 160

\*Product is subject to development and innovation, some specifications may be subject to change without further notice.