



# NØRDIS TOR

Domestic Hot Water Heat Pump

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200 L; 300 L



### NØRDIS TOR – for all your daily needs

The domestic hot water heat pump provides hot water for everyday use. This efficient system can heat water up to 65°C, or up to 75°C using the integrated electric heater. It features a robust stainless steel tank, advanced thermal insulation, and convenient smart controls accessible via Wi-Fi and LCD touchscreen. Designed with energy-saving technology, quiet operation, and built-in safety functions such as anti-legionella and anti-freeze protection, it ensures constant comfort and long-term reliability.

- DHW production up to 65°C (75°C with integrated electric heater)
- DUPLEX 2205 stainless steel tank for 200L and 300L models
- High-density polyurethane insulation (45 mm for 200L – 50 mm for 300L)
- Outdoor operating temperature: -7°C to +43°C
- Built-in Wi-Fi for app control
- LCD touchscreen display
- SG Ready and photovoltaic ready
- DHW recirculation timer
- High-efficiency evaporator
- MODBUS port for external control
- Integrated anti-legionella function
- Anti-freeze function
- Self-diagnosis and weekly scheduling
- Auto-restart after power failure
- Titanium electronic anode + magnesium anode
- Stainless steel 316 solar heat exchanger
- Rotary compressor for maximum efficiency and quietness
- DC brushless fan motor with static pressure up to 160 Pa
- Electronic expansion valve

### Solar integration – harness the power of the sun

The NØRDIS TOR series is designed to do more than just heat water: it integrates seamlessly with solar thermal panels, ensuring an additional level of efficiency and sustainability.

At the heart of this feature is the integrated solar heat exchanger, made of SUS316 corrugated stainless steel. With a total surface area of 1 m<sup>2</sup> and optimized geometry, it ensures fast and efficient transfer of solar energy into the DHW tank. This means your family can capture and store free renewable energy directly from the sun, significantly reducing electricity consumption.



### Comfort and intelligent control – intelligence that learns from you



- Eco Mode: prioritizes efficiency, mainly using the heat pump for hot water production. Ideal for daily use with minimal energy consumption.
- Boost Mode: provides rapid heating by combining the heat pump with the electric heater. Perfect for busy families or unexpected demands.
- Silent Mode: reduces fan speed for ultra-quiet operation, allowing uninterrupted comfort, even at night.
- Ventilation Mode: operates the fan independently to circulate air without heating water.
- Holiday Mode: keeps the system on standby during long absences and automatically preheats before your return.

### Flexible installation – designed to fit every home

The TOR series has been developed with versatility in mind, making it suitable for both new constructions and renovations. Thanks to the dual-duct system, the unit efficiently absorbs heat from the surrounding air. A single-duct configuration recycles indoor heat for improved performance. A ductless configuration not only heats water but also provides cooling for spaces such as garages, basements, or utility rooms.

Note: The product images shown in this document may differ from the actual product. Due to continuous product improvement, the above specifications are subject to change without prior notice.

### NØRDIS TOR with ECO refrigerant R290

The use of natural refrigerant R290 reduces environmental impact while delivering excellent heating performance. High-density polyurethane insulation minimizes heat loss, meaning less energy is required to maintain the desired water temperature.

Its photovoltaic and Smart Grid readiness allows homeowners to connect directly to renewable energy sources, optimizing consumption and reducing dependence on the grid. Even during manufacturing, sustainability is prioritized: TOR insulation is completely free of fluorinated gases, making it an environmentally responsible choice from start to finish.

NØRDIS TOR is a commitment to a greener and more sustainable future.

## Technical Data

Model		TOR/200S	TOR/300S
Nominal heating capacity*	kW	1,6	1,6
Storage tank capacity	L	200	300
Tapping cycle****		L	XL
Heating capacity (2/1°C)**	kW	1,07	1,08
Heating time (2/1°C)**	H	7,39	11,72
<b>COP (2/1°C)****</b>	<b>W/W</b>	<b>2,78</b>	<b>293</b>
<b>Water heating energy efficiency (smart=0)****</b>		<b>1.153%</b>	<b>1.199%</b>
Energy class (2/1°C)****		A+	A
Standby power input (2/1°C)***	W	24	25
Tapping cycle****		L	XL
Heating capacity (7/6°C)**	kW	1,25	1,27
Heating time (7/6°C)**	H	6,4	9,9
<b>COP (7/6°C)****</b>	<b>W/W</b>	<b>3,346</b>	<b>3.368</b>
Water heating energy efficiency (smart=0)****		1.389%	138,40%
Energy class (7/6°C)****		A+	A+
Standby power input (7/6°C)***	W	23	27
Heating capacity (14/13°C)**	kW	1,47	1,49
Heating time (14/13°C)**	H	5,2	8,16
<b>COP (14/13°C)****</b>	<b>W/W</b>	<b>3,805</b>	<b>391</b>
Water heating energy efficiency (smart=0)****		1.580%	1.602%
Energy class (14/13°C)****		A++	A++
Standby power input (14/13°C)***	W	20	23
<p>* Capacity and power input based on the following conditions:                      – Heating mode: Ambient temperature 20°C/15°C, water temperature from 15°C to 55°C.                      ** Heating capacity and heating time based on ERP (EN16147) Phase A, water heating from 10°C to 53°C.                      *** Standby power input based on ERP (EN16147) Phase B.                      **** COP and energy class based on ERP (EN16147) Phase C with tapping profile L / XL.                      ***** Sound level tested according to EN 12102 with water at 50°C.</p>			

## Technical Data

Model		TOR/200S	TOR/300S
Heating capacity (15/12°C)**	kW	1,41	1,45
Heating time (15/12°C)**	H	5,3	5,3
<b>COP (15/12°C)****</b>	<b>W/W</b>	<b>3,76</b>	<b>3,82</b>
Standby power input (15/12°C)***	W	20	24
Heating capacity (20/15°C)**	kW	1,56	1,58
Heating time (20/15°C)**	H	5	80
<b>COP (20/15°C)****</b>	<b>W/W</b>	<b>4,03</b>	<b>4,09</b>
Water heating energy efficiency (smart=0)****		167, 60%	168, 50%
Energy class (20/15°C)****		<b>A++</b>	<b>A++</b>
Standby power input (20/15°C)***	W	19	24
<b>Sound power level *****</b>	dB(A)	52,5	53
<b>Sound pressure level at 1 m</b>	dB(A)	36	36
Power supply	V/Ph/Hz	220–240/1/50	
Rated power input	W	700 + 1600 (resist. elettrica)	
Rated current	A	3,05 + 6,8 (resistenza elettrica)	
Maximum water temperature (without electric heater)	°C	65	
Maximum water temperature (with electric heater)	°C	75	
Temperature setting range	°C	10 / 75	
Nominal water output*	L/H	34,4	
Operating temperature range	°C	-7 ~ 43	
Maximum discharge pressure	bar	26	
Maximum suction pressure	bar	10	
<p>* Capacity and power input based on the following conditions:                      – Heating mode: Ambient temperature 20°C/15°C, water temperature from 15°C to 55°C.                      ** Heating capacity and heating time based on ERP (EN16147) Phase A, water heating from 10°C to 53°C.                      *** Standby power input based on ERP (EN16147) Phase B.                      **** COP and energy class based on ERP (EN16147) Phase C with tapping profile L / XL.                      ***** Sound level tested according to EN 12102 with water at 50°C.</p>			

## Technical Data

Model		TOR/200S	TOR/300S
Compressor	type	Rotary GMCC	
Refrigerant	type	R290	
Refrigerant charge	g	150	
Fan motor		DC motor	
Airflow rate	m <sup>3</sup> /h	325	
Fan static pressure	Pa	160	
Air outlet duct diameter	mm	177	
Maximum air duct length	m	16	
Maximum allowable tank pressure	bar	10	
Inner tank material		Duplex 2205 stainless steel	
Inner tank thickness	mm	1,5	
Tank insulation material		Poliuretan	
Insulation thickness (200L / 300L)	mm	45 / 50	
Outer tank material		Galvanized steel	
Outer tank thickness	mm	0,5	
Acoustic insulation thickness (tank cover)	mm	0,05	
Tank color		White	
Solar heat exchanger material		Corrugated stainless steel 316	
Solar coil diameter	∅	22	
Solar coil length	m	10	
Solar coil tube thickness	mm	2,5	
Total solar heat exchange surface	m <sup>2</sup>	1	
<p>* Capacity and power input based on the following conditions:                      – Heating mode: Ambient temperature 20°C/15°C, water temperature from 15°C to 55°C.                      ** Heating capacity and heating time based on ERP (EN16147) Phase A, water heating from 10°C to 53°C.                      *** Standby power input based on ERP (EN16147) Phase B.                      **** COP and energy class based on ERP (EN16147) Phase C with tapping profile L / XL.                      ***** Sound level tested according to EN 12102 with water at 50°C.</p>			

## Technical Data

Model		TOR/200S	TOR/300S
Heat pump heat exchanger material		Microchannel	
Indoor unit protection rating	IP	IPX1	
Hot water outlet connection	Inches	G 3/4	G 3/4
Solar heat source inlet/outlet connection	Inches	G 3/4	G 3/4
Cold water inlet connection	Inches	G 3/4	G 3/4
Tank drain connection	Inches	G 3/4	G 3/4
Condensate drain connection	Inches	G 1/2	G 1/2
Net dimensions (Diameter × Height)	mm	∅560 x 1750	∅640 x 1850
Packaging dimensions (L × W × H)	mm	629 x 629 x 1892	695 x 695 x 1989
Net weight	Kg	72	87
Gross weight	Kg	86	105
<p>* Capacity and power input based on the following conditions:                      – Heating mode: Ambient temperature 20°C/15°C, water temperature from 15°C to 55°C.                      ** Heating capacity and heating time based on ERP (EN16147) Phase A, water heating from 10°C to 53°C.                      *** Standby power input based on ERP (EN16147) Phase B.                      **** COP and energy class based on ERP (EN16147) Phase C with tapping profile L / XL.                      ***** Sound level tested according to EN 12102 with water at 50°C.</p>			



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