

Hot water tank



Unicell NT-S hot water tank

Much energy can be saved not only during heating but also during hot water preparation. In this respect Froling and the Unicell are forging new paths. The vacuum enamelling and magnesium protection anode protect against corrosion and ensure resistance to high temperatures and a long life cycle. Whether it's an optimal hot water preparation system for every heat boiler or an efficient solar tank, the Froling Unicell is fully versatile and guarantees efficient, hygienic hot water preparation.

Using solar energy for domestic water heating

The Froling Unicell NT-S permits efficient use of solar energy to heat domestic water. The lower element is connected directly to the solar panel system. The upper heating surface provides extra heat, meaning that the solar energy can be used all year round. It is also possible to provide extra heating using an electric heating cartridge, available separately.

1 Feature: high-quality insulation (50 mm)

- Advantages:
- optimal thermal insulation
 - low radiant heat losses

The high-performance insulation with an outer jacket ensures optimum thermal insulation and low radiant heat loss, resulting in maximum efficiency.

2 Feature: large heat exchanger surface area

- Advantages:
- maximum energy yield
 - optimum use of solar energy

When in use as a solar tank, the large lower heating surface is connected to the solar panel system. The upper heating surface provides extra heat, meaning that the solar energy can be used optimally all year round.

When using with a boiler alone, both coils are connected directly to the boiler. The resulting heat exchanger surface area ensures a short loading time and high operating comfort.

3 Feature: connection for electric heating cartridge

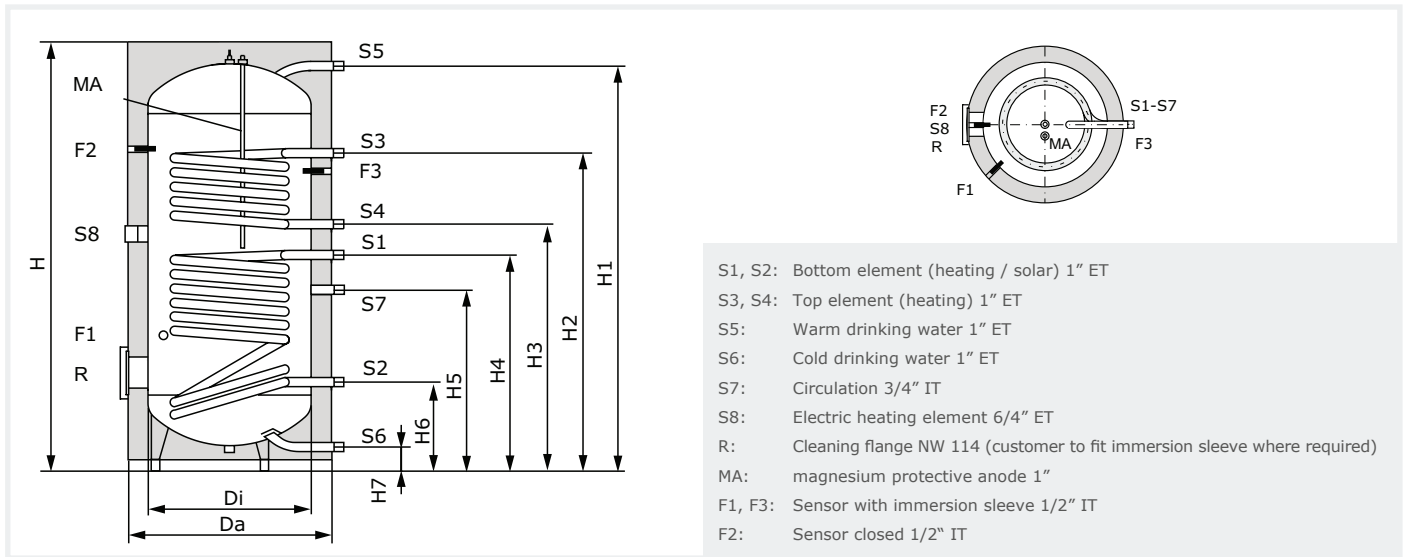
When being used as a solar tank, you can provide additional heating with an electric heating cartridge, available separately.

4 Feature: large cleaning access

- Advantages:
- complete emptying of water
 - simple cleaning



Technical specifications - Unicell NT-S



Dimensions			200	300	500
Do	Tank ø including insulation	mm	550	650	800
Di	Tank ø excluding insulation	mm	450	550	700
H	Height of tank including insulation	mm	1538	1530	1580
H1	Height, warm drinking water connection	mm	1433	1435	1489
H2	Height, flow connection, top element	mm	1073	1192	1276
H3	Height, return connection, top element	mm	853	884	880
H4	Height, flow connection, bottom element	mm	693	789	795
H5	Height, circulation connection	mm	773	984	695
H6	Height, return connection, bottom element	mm	253	305	223
H7	Height, cold drinking water connection	mm	77	77	77
H8	Height, electronic heating cartridge connection	mm	803	836	838
Minimum width required		mm	570	670	820

Technical specifications			200	300	500
Permitted operating pressure	hot water side / drinking water side	bar	12 / 6	12 / 6	12 / 6
Permitted operating temperature	hot water side / drinking water side	°C	95	95	95
Heating surface	top / bottom element	m ²	0.53 / 1.06	0.93 / 1.45	1.63 / 2.17
Magnesium corrosion protection anode Ø / length		mm	26 / 800	26 / 1130	33 / 1000
Weight (empty)		kg	104	135	193
Maximum continuous output of element (tv = 45°C)	top / bottom element	KW	20 / 39.8	24.8 / 54.2	60.5 / 80.5
Heating water flow	top / bottom element	m ³ /h	0.5 / 1.5	0.6 / 1.7	1.5 / 2.28
Flow capacity (90°C, tap temperature 45°C)	top / bottom element	l/h	425 / 941	855 / 1332	1478 / 1978
Performance indicator N _L as per DIN DIN 4708		NL	6.3	14.1	23.1
Water capacity	top / bottom element	litres	4.0 / 7.6	7.0 / 10.6	12.4 / 15.0
Energy efficiency class ¹			C	C	-
Standing loss S ¹		W	80.4	85.9	109.2
Standing losses Q _{ST} as per EN 12897 ¹		kWh/24 h	1.87	2.06	2.62
Storage volume ¹		litres	202.4	302.9	518.9

1) As per Commission Delegated Regulation (EU) 814/2013 applies to tanks with Froling tank insulation