



## Stainless Steel Water Heaters & Tanks



## Your solution provider for hot water, steam and solar thermal systems for hotels, hospitals and the industry.



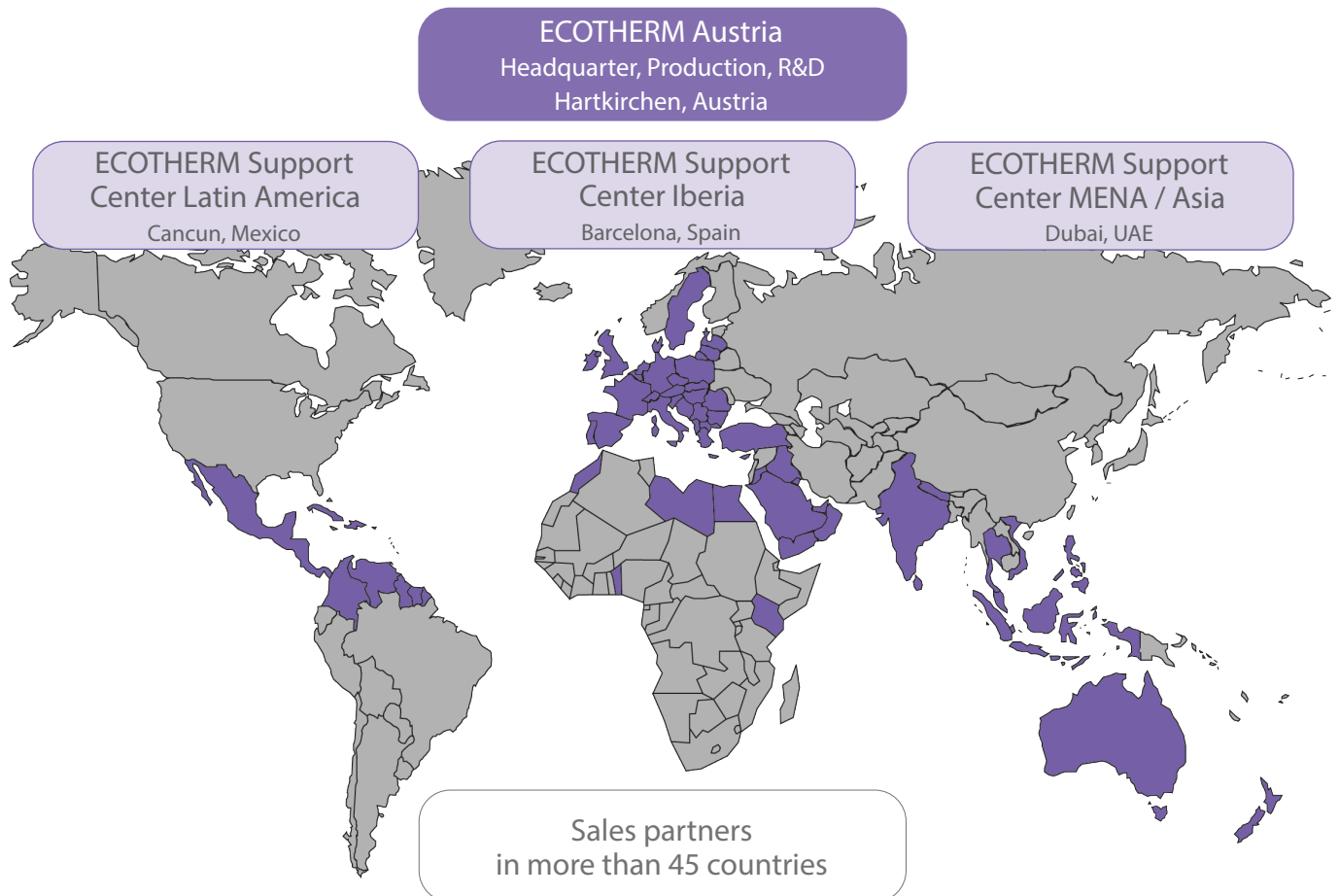
### CEO & Founder

Herbert B. Bremstaller



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herbert@ecotherm.com

As a technology leader, we offer customized solutions for hot water, steam and solar thermal systems that guarantee maximum efficiency to meet your specific requirements. With more than 50 years of experience and over 10,000 installations worldwide, we deliver sustainable, space- and energy-saving solutions from our state-of-the-art production facility in Austria. As a family-run company, we place particular emphasis on the highest quality and excellent customer service, supported by a network of distribution partners in over 45 countries.



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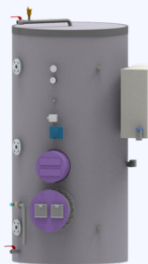
# Product Overview



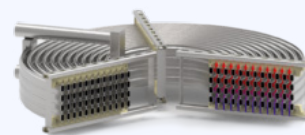
**High Capacity Water Heaters  
Stainless Steel**



**Storage Water Heaters  
Stainless Steel**



**Electric Water Heaters  
Stainless Steel**



**Heat Exchangers  
Stainless Steel**



**Electric Hot  
Water Boilers**



**Electric Steam Boilers**



**Clean Steam Boilers**



**Heat Pumps**



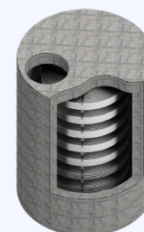
**Direct Fired  
Water Heaters**



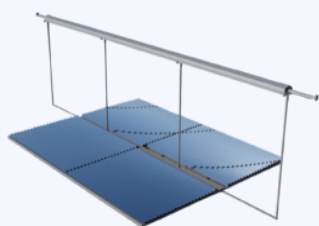
**Water Heater  
and Coolers**



**Stainless Steel  
Pressure Vessels**



**Ice Storage  
Solutions**



**Solar Thermal  
Collectors**



**Heat Recovery**



**Special Constructions**



**Magnetic-Dynamic  
Separators**



## General

ECOTHERM hot water storage tanks are crafted exclusively from high-quality, corrosion-resistant stainless steel.

Production follows certified quality and environmental standards according to ISO 9001:2015 and ISO 14001.

All tanks undergo tank pickling in our in-house facility, ensuring maximum corrosion resistance and consistently superior surface quality.

As a certified ISO 3834-2:2005 welding specialist and with advanced manufacturing technologies such as laser cutting, tube laser, and laser welding, ECOTHERM guarantees exceptional precision and craftsmanship.

Innovative features – such as the spiral flat-tube heat exchanger – enhance the tank's efficiency while providing optimal temperature stratification.

**ECOTHERM**  
**Premium Stainless Steel Water Heaters**

# Stainless Steel Storage Water Heaters and Heat Exchangers

## Stainless steel is a corrosion- and acid-resistant steel

- The resistance is created by the alloy metals chromium, molybdenum and nitrogen.
- A passive state is created of chromium by the creation of chromdioxid on the surface.

The acid resistance of corrosion-resistant stainless steels is rather substantially improved by the addition of molybdenum (Mo). In order to maintain the structure austenitic (Mo is a ferrite former), more nickel (Ni) or nitrogen (N) (min. 10.50%) is simultaneously alloyed to the steel. Furthermore the alloying of Mo significantly improves the resistance to pitting and generally to reduced acids. This material is weldable without thermal treatment and grain decay resistant.



## Stainless steel at the manufacturing of storage tanks

The storage tank is entirely made of high-quality, corrosion resistant stainless steel. This material is resistant to aggressive drinking water. For particularly aggressive water (chloride content greater than 70mg/litre) an optional external current anode helps. It protects the tank by a cathodic corrosion protection against pitting and crevice corrosion.

## Processing

All cuts are made by computer-controlled (CNC) laser machines. This process provides scale-free and burr-free cutting edges. Scale-free edges have a significant advantage for the subsequent welding: scale inclusions can be prevented. 100% penetration welding of the circular and longitudinal welds, and all connections is done under fully reformed protective gas atmosphere. This high effort guarantees as the final result a welding that it is as safe as the base material. The final bath pickling with subsequent passivation of the surface ensures a perfect, long-lasting surface protection of the stainless steel.

## Universal use of storage tanks

By our various storage tank program we can fit any application. This allows multiple heating sources combined in one storage tank (e. g. boilers and solar panels).

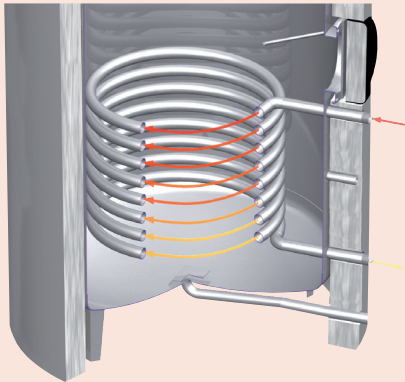
## Significant advantages

- Use of high-quality, corrosion-resistant stainless steel
- Expert processing (e. g. welding, pickling etc.)
- Long life-time and 5-year warranty for stainless steel storage tanks
- Best hygiene -> deposits & anode slimes are effectively prevented
- Low-maintenance -> at drinking water quality no sacrificial anode required
- Light weight -> for example approx. 80 kg for 500 liters storage tank (500 liters email storage tank: 150 kg)
- Individuality -> different designs and sizes of storage tanks possible
- Robust and insensitive at transport & installation
- Better efficiency of the heat exchanger -> no additional coating on the tube

## Standard Heating Coils vs. ECOTHERM Flat Spiral Heating Coils

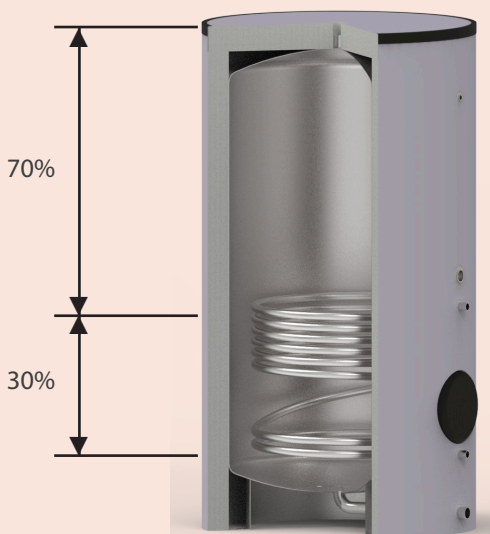
### Heating coils

These heat exchangers are always in mixing temperature zones from 10°C to 60°C and thus have a reduced heat transfer rate. During the heating phase heating coils produce circulations in the storage tank and need more primary energy. The available standby volume is usually only about 70% of the capacity of the storage tank.



### Disadvantages

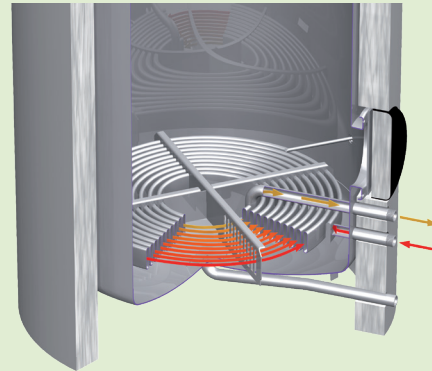
- Up to 30% reduced effective volume & risk of legionella
- Reduced power consumption and poor heat layering
- Limited heat exchanger surfaces and reduced installation options
- Increased primary energy consumption



- 70% Standby volume
- 30% Mixing water area and "dead" volume

### ECOTHERM flat spiral heating coils

The patented flat heating coil is mounted horizontally at the bottom of the storage tank. It is 100% in the cold water zone, respectively only in one temperature zone. The installation directly above the tank bottom and the low height (12 cm) allow an almost complete heating of the storage tank.



### Advantages

- High standby volume (97% of the tank capacity)
- Hygienic water
- High efficiency due to efficient heat transfer
- Optimized heat layering
- Primary energy savings



- 97% Standby volume
- 3% Mixing water area and "dead" volume

## ECOTHERM Fibre-Fleece Insulation

### Advantages of the ECOTHERM Fibre-Fleece Insulation

- Optimum insulation that reduces heat loss by up to 30% in standby mode
- Material made from recycled PET bottles without chemical additives and therefore 100% recyclable
- Flame-resistant in accordance with DIN 4102-1 class B2, also available in class B1 on request
- Patented closure strip, which can be opened by just one person for quick and easy maintenance and repair work
- Patented cover rosettes for the connection sleeves ensure optimum and secure sealing and prevent heat loss at the connection points
- Individual design according to customer requirements



Insulation  
Brochure



Patented closure strip for easy and safe usage

## ECOTHERM Premium Stainless Steel Water Heaters

### Efficient – Reliable – Durable

ECOTHERM develops and manufactures high-quality stainless steel water heaters and storage tanks with capacities ranging from 200 to 20,000 liters. Thanks to innovative technologies and precise system design, these solutions deliver maximum energy efficiency, outstanding operational reliability, and long service life.

### Maximum Efficiency

The patented flat spiral heat exchanger enables up to 97% usable storage volume.

By positioning the heat exchanger in the coldest area at the bottom of the tank, optimal temperature stratification is achieved, allowing the tank to heat up faster and with maximum energy efficiency.

### High Performance

Multiple flat spiral heating coils can be combined into high-performance heat exchanger batteries.

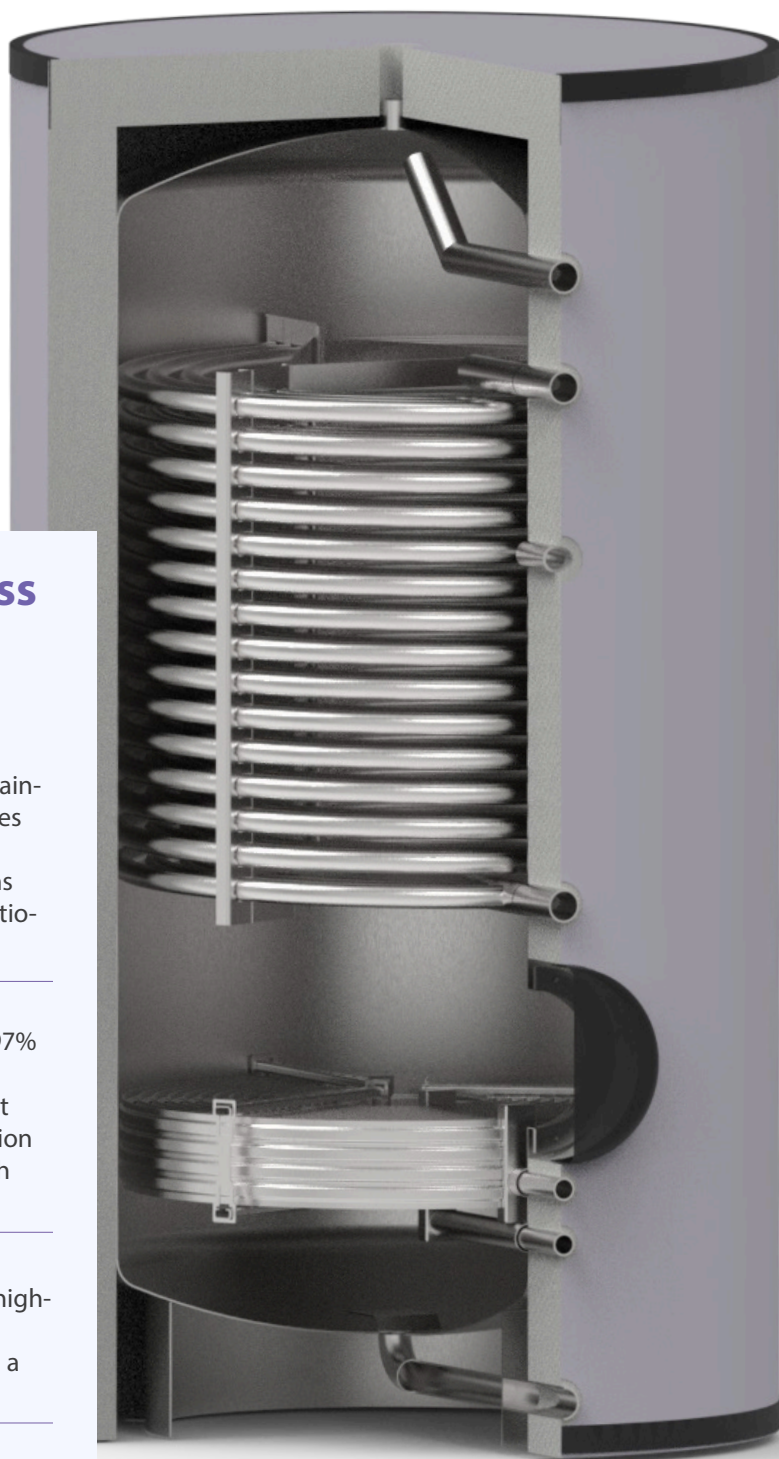
This allows heat transfer capacities of up to 1,000 kW in a 2,000-liter storage tank.

### Intelligent System Design

With the proprietary ECOSIZE sizing software, ECOTHERM determines the optimal storage tank for each application. The result is precisely engineered, energy-efficient, and cost-effective system solutions.

### Experience You Can Trust

With more than 40 years of experience, ECOTHERM is one of the leading manufacturers of stainless steel water heaters. Customers worldwide trust our innovative technologies, high manufacturing quality, and reliable solutions.



# EHSF - ECOTHERM Water Heaters

## with one flat spiral heating coil



Accessories see pages 27–29



### Design

DHW storage tank made of high-quality Duplex / 316Ti stainless steel with patented flat-spiral heat exchanger (vertical oval cross-section) for high performance and optimal stratification. Nearly 100% usable storage volume, dip pickled, low-maintenance and optimized for hygienic operation. Front flange DN 200 (for cleaning or optional installation of additional heat exchanger or electric immersion heater), 6/4" socket for electric immersion heater (upper section) 1/2" sockets for thermometer / temperature sensors, Cold water inlet at front, Hot water outlet at top center

### Insulation

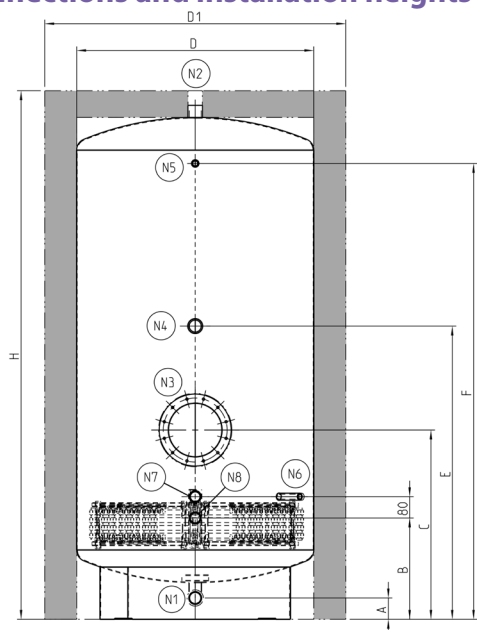
Fleece insulation with durable PP outer jacket (RAL 7037), aluminum closing rail and self-fixing caps for quick and easy installation.

- Insulation thickness: 120 mm
- 100% recyclable
- Fire class B2

### Benefits

- Nearly 100% usable volume
- High heat exchanger efficiency
- Excellent hygiene

### Connections and installation heights (mm)



Type	Storage tank capacity (liters)	max. Operating pressure	Test pressure
Storage tank	400 - 540	10 bar	13 bar
Storage tank	800 - 1,000	6 bar	7.8 bar
Heat exchanger	-	10 bar	13 bar

Connection	Size	Sleeve position°	Description
N1	6/4" MT	180°	Cold water inlet / drain
N2	6/4" FT	top	Hot water outlet
N3*	NW 200	180°	Cleaning flange
N5	1/2" FT	180°	Thermometer
N4	6/4" FT	180°	Screw-in heater
N6	1/2" FT	135°	Temperature sensor 1
N7	5/4" MT	180°	Heat exchanger inlet
N8	5/4"MT	180°	Heat exchanger return

\*EHSF-400-2,5 size: NW110

### Storage tank dimensions

Model	storage capacity	HE-surface	weight	A	B	D	D <sub>1</sub>	H	insulation thickness
	Liter	m <sup>2</sup>	kg	mm	mm	mm	mm	mm	mm
EHSF-400-2,5	400	2,5	80	90	380	650	890	1920	120
EHSF-540-3,0	540	3,0	100	90	380	650	890	1960	120
EHSF-800-4,2	800	4,2	140	80	380	790	1030	1980	120
EHSF-1000-5,5	1000	5,5	160	70	380	890	1130	1980	120

## EHSF-...-1 Performance data



### One heating coil

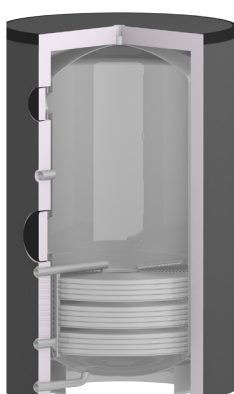


Water Heater Type	volume [l]	temperature primary 75°C - 55°C		temperature primary 70°C - 40°C		temperature primary 65°C - 60°C	
		capacity [kW]	continuous hot water output [l/h]	capacity [kW]	continuous hot water output [l/h]	capacity [kW]	continuous hot water output [l/h]
EHSF-400-2,5	400	43	733	21	363	33	565
EHSF-540-3,0	540	52	889	28	482	44	760
EHSF-800-4,2	800	94	1629	54	942	70	1204
EHSF-1000-5,5	1000	121	2088	71	1228	88	1525

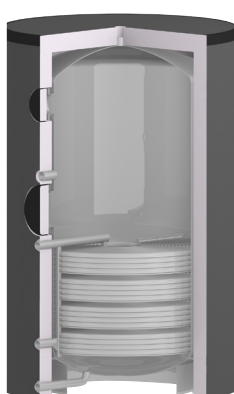
### Two heating coils



### Three heating coils



### Four heating coils



Higher Capacities up to 4000 litres and 80m<sup>2</sup> are available!

Please refer to our High Capacity Water Heater brochure with Flat Spiral Heating Coils



### Heat exchanger pressure loss ESWF-...-1

Water Heater type	Pressure loss in mbar at				Flow rate resistance factor (z)	Formula for calculating pressure loss <b>mbar = (m<sup>3</sup>/h)<sup>2</sup> * z</b> mbar = pressure loss primary circuit m <sup>3</sup> /h = flow rate z = flow rate resistance factor
	1 m <sup>3</sup> /h	1.5 m <sup>3</sup> /h	2 m <sup>3</sup> /h	3 m <sup>3</sup> /h		
EHSF-400-2,5	31	70	124	279	31	
EHSF-540-3,0	31	70	124	279	31	
EHSF-800-4,2	41	92	164	369	41	
EHSF-1000-5,5	62	140	248	558	62	

# ESWH - ECOTHERM Water Heaters with one spiral heating coil



Accessories see pages 27–29



## Design

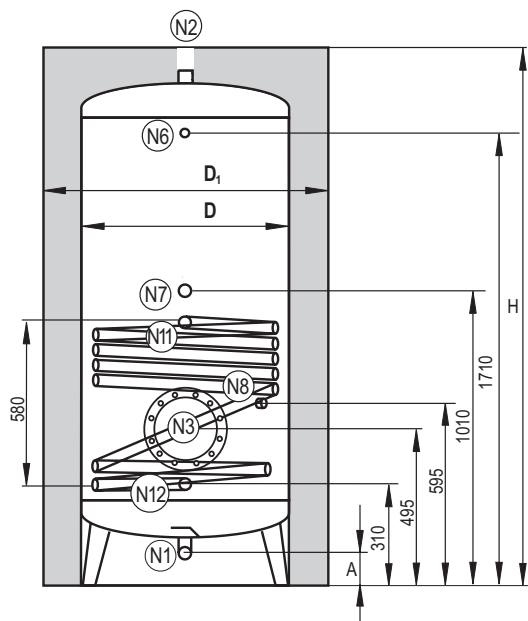
Water heaters made of stainless steel Duplex / 316Ti with a welded in, heating coil with round profile for optimal performance, bath pickled, low maintenance, suitable for thermosiphon system, cleaning flange DN 200 for cleaning purpose or for the installation of an additional heat exchanger or electric screw-in heater, cold water supply at front.

- Nearly 100% volume usage
- Suitable for thermosiphon system (without pump)
- Optimized hygiene

## Fiber-fleece insulation

Storage insulation made of fiber-fleece with robust PP outer sheathing RAL7037, patented aluminum closure strip and self-fixing sleeve caps, quick and easy installation, insulation thickness 100 mm, 100% recyclable, fire protection class B2.

## Connections and installation heights (mm)



Type	Storage tank capacity (liters)	max. Operating pressure	Test pressure
Storage tank	200 - 540	10 bar	13 bar
Storage tank	800 - 1,000	6 bar	7.8 bar
Heat exchanger	-	10 bar	13 bar

Connection	Size	Sleeve position °	Description
N1 up to 540L	1" MT	180°	Cold water inlet / drain
N1 from 800L	6/4" MT	180°	Cold water inlet / drain
N2	6/4" FT	top	Hot water outlet
N3	DN 200	180°	Cleaning flange
N6	1/2" FT	180°	Thermometer
N7	6/4" FT	180°	Electric screw-in heater
N8	1/2" FT	135°	Temperature sensor
N11	1" MT	180°	Heat exchanger inlet
N12	1" MT	180°	Heat exchanger return

Storage tank type	Capacity litre	A mm	D mm	D <sub>1</sub> mm	H mm	Tank weight kg	Register surface HE1 m <sup>2</sup>
ESWH-200-1	200	100	500	660	1,420	45	0.9
ESWH-300-1	300	100	500	660	1,920	55	0.9
ESWH-540-1	540	90	650	810	1,940	70	1.2
ESWH-800-1	800	80	790	1,000	1,960	115	1.8
ESWH-1000-1	1,000	70	890	1,110	1,985	135	1.8



## ESWH-...-1 Performance data - HE1

Hot water output at primary temperatures 80 ° → 60 ° C

Storage tank type	Domestic water 10°C > 45°C					Domestic water 10°C > 60°C			
	kW	45°C l/h	primary m³/h	Pressure loss mbar	NL index	kW	60°C l/h	primary m³/h	Pressure loss mbar
ESWH-200-1	22.7	558	1.0	14	6	13.4	304	0.8	9
ESWH-300-1	22.7	558	1.0	14	7	13.4	304	0.8	9
ESWH-540-1	30.3	744	1.3	40	13	17.9	405	1.0	24
ESWH-800-1	45.4	1,116	2.0	144	22	26.8	608	1.5	81
ESWH-1000-1	45.4	1,116	2.0	144	25	26.8	608	1.5	81

NL = Performance index according to DIN 4708: primary 80°C > 60°C, domestic water 10°C > 45°C, storage volume heated up to 60°C.

Hot water output at primary temperatures 70 ° → 50 ° C

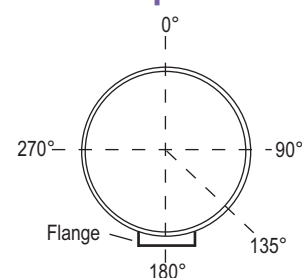
Storage tank type	Domestic water 10°C > 45°C					Domestic water 10°C > 60°C			
	kW	45°C l/h	primary m³/h	Pressure loss mbar	NL index	kW	60°C l/h	primary m³/h	Pressure loss mbar
ESWH-200-1	17.2	423	0.74	8	5	11.7	201	0.8	0.5
ESWH-300-1	17.2	423	0,74	8	6	11.7	201	0.8	0.5
ESWH-540-1	23.0	565	1.0	24	10	15.6	268	1.0	0.7
ESWH-800-1	34.5	847	1.5	81	18	23.4	402	1.5	1.0
ESWH-1000-1	34.5	847	1.5	81	21	23.4	402	1.5	1.0

NL = Performance index according to DIN 4708: primary 80°C > 60°C, domestic water 10°C > 45°C, storage volume heated up to 60°C.

Heat exchanger pressure loss ESWH-...-1

Storage tank type	Pressure loss in mbar at				Flow rate resistance factor (z)	Formula for calculating pressure loss  mbar = (m³/h)² * z  mbar = pressure loss primary circuit m³/h = flow rate z = flow rate resistance factor
	1 m³/h	1.5 m³/h	2 m³/h	3 m³/h		
ESWH-200-1	14	32	56	126	14	
ESWH-300-1	14	32	56	126	14	
ESWH-540-1	24	54	96	216	24	
ESWH-800-1	36	81	144	324	36	
ESWH-1000-1	36	81	144	324	36	

### Sleeve position



# ESWH - ECOTHERM Water Heaters

## with two spiral heating coils



Accessories see pages 27–29



### Design

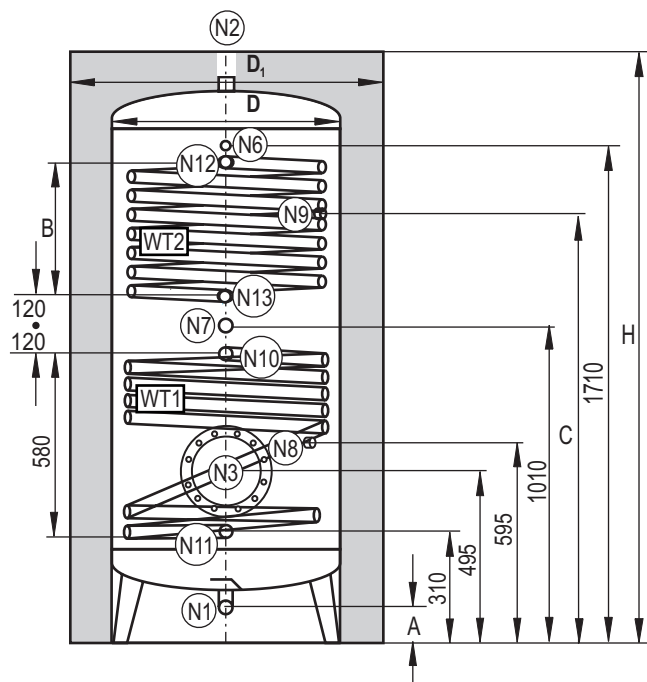
Water heaters made of stainless steel Duplex / 316Ti with two welded heating coils with round profile for optimal performance, bath pickled, low maintenance, suitable for thermosiphon system, cleaning flange DN 200 for cleaning purpose or for installation of an additional heat exchanger or electric screw-in heater, cold water connection at front.

- Nearly 100% volume usage
- Suitable for thermosiphon system (without pump)
- Optimized hygiene

### Fiber-fleece insulation

Storage tank insulation made of fiber-fleece with robust PP outer sheathing RAL7037, patented aluminum closure strip and self-fixing sleeve caps, quick and easy installation, insulation thickness 100 mm, 100% recyclable, fire protection class B2

### Connections and installation heights (mm)



Type	Storage tank capacity (liters)	max. Operating pressure	Test pressure
Storage tank	200 - 540	10 bar	13 bar
Storage tank	800 - 1,000	6 bar	7.8 bar
Heat exchanger	-	10 bar	13 bar

Connection	Size	Sleeve position °	Description
N1 up to 540L	1" MT	180°	Cold water inlet / drain
N1 from 800L	6/4" MT	180°	Cold water inlet / drain
N2	6/4" FT	above	Hot water outlet
N3	DN 200	180°	Cleaning flange
N6	1/2" FT	180°	Thermometer
N7	6/4" FT	180°	Electric screw-in heater
N8	1/2" FT	135°	Temperature sensor 1
N9	1/2" FT	135°	Temperature sensor 2
N11	1" MT	180°	HE1 lower heat exchanger inlet
N12	1" MT	180°	HE1 lower heat exchanger return
N13	1" MT	180°	HE2 upper heat exchanger inlet
N14	1" MT	180°	HE2 upper heat exchanger return

Storage tank type	Capacity liters	A mm	B mm	C mm	D mm	D <sub>1</sub> mm	H mm	Storage tank weight		Register surface	
								kg	HE1 m <sup>2</sup>	HE2 m <sup>2</sup>	
ESWH-300-2	300	100	390	1,340	500	660	1,920	55	0.9	0.6	
ESWH-540-2	540	90	450	1,380	650	810	1,940	85	1.2	0.9	
ESWH-800-2	800	80	450	1,380	790	1,000	1,960	130	1.8	1.2	
ESWH-1000-2	1,000	70	450	1,380	890	1,110	1,985	150	1.8	1.2	



## Single operation / Parallel operation

The two heat exchangers can be used in single operation as well as in parallel operation.

### Single operation: HE1 or HE2

#### ESWH-...-2 Performance data - HE 1 (only lower heat exchanger)

Hot water output at primary temperatures 80 ° > 60 ° C

Storage tank type	Domestic water 10°C > 45°C					Domestic water 10°C > 60°C			
	kW	45°C l/h	primary m <sup>3</sup> /h	pressure loss mbar	NL index	kW	60°C l/h	primary m <sup>3</sup> /h	pressure loss mbar
ESWH-300-2	22.7	558	1.0	14	7	13.4	304	0.8	9
ESWH-540-2	30.3	744	1.3	40	13	17.9	405	1.0	24
ESWH-800-2	45.4	1,116	2.0	144	22	26.8	608	1.5	81
ESWH-1000-2	45.4	1,116	2.0	144	25	26.8	608	1.5	81

NL = Performance index according to DIN 4708: primary 80°C > 60°C, domestic water 10°C > 45°C, storage volume heated up to 60°C.

#### ESWH-...-2 Performance data - HE 2 (only upper heat exchanger)

Hot water output at primary temperatures 80 ° > 60 ° C

Storage tank type	Domestic water 10°C > 45°C					Domestic water 10°C > 60°C			
	kW	45°C l/h	primary m <sup>3</sup> /h	pressure loss mbar	NL index	kW	60°C l/h	primary m <sup>3</sup> /h	pressure loss mbar
ESWH-300-2	15.1	372	0.65	5	5	11.8	203	0.5	4
ESWH-540-2	22.7	558	1.0	14	10	13.4	304	0.8	9
ESWH-800-2	30.3	744	1.3	41	17	17.9	405	1.0	24
ESWH-1000-2	30.3	744	1.3	41	19	17.9	405	1.0	24

NL = Performance index according to DIN 4708: primary 80°C > 60°C, domestic water 10°C > 45°C, storage volume heated up to 60°C.

### Parallel operation: HE1 and HE2

Hot water output at parallel operation (both heat exchangers) at primary temperatures 80°C > 60 ° C

Storage tank type	Domestic water 10°C > 45°C					Domestic water 10°C > 60°C			
	kW	45°C l/h	primary m <sup>3</sup> /h	pressure loss mbar	NL index	kW	60°C l/h	primary m <sup>3</sup> /h	pressure loss mbar
ESWH-300-2	34	852	1.5	13	11	27	465	1.2	9
ESWH-540-2	48	1,193	2.0	38	19	38	650	1.6	24
ESWH-800-2	69	1,705	3.0	135	31	54	929	2.3	80
ESWH-1000-2	69	1,705	3.0	135	34	54	929	2.3	80

NL = Performance index according to DIN 4708: primary 80°C > 60°C, domestic water 10°C > 45°C, storage volume heated up to 60°C.

Pressure loss (for formula used to calculate the pressure loss, see pages 7, 9 and 11)

Storage tank type	Pressure loss upper heat exchanger in mbar at				Flow rate resistance factor (z)	Pressure loss lower heat exchanger in mbar at				Flow rate resistance factor (z)
	1 m <sup>3</sup> /h	1.5 m <sup>3</sup> /h	2 m <sup>3</sup> /h	3 m <sup>3</sup> /h		1 m <sup>3</sup> /h	1.5 m <sup>3</sup> /h	2 m <sup>3</sup> /h	3 m <sup>3</sup> /h	
ESWH-300-2	14	32	56	126	14	10	23	40	90	10
ESWH-540-2	24	54	96	216	24	14	32	56	126	14
ESWH-800-2	36	81	144	324	36	24	54	96	216	24
ESWH-1000-2	36	81	144	324	36	24	54	96	216	24

Total pressure loss serial circuit = pressure loss lower HE + pressure loss upper HE

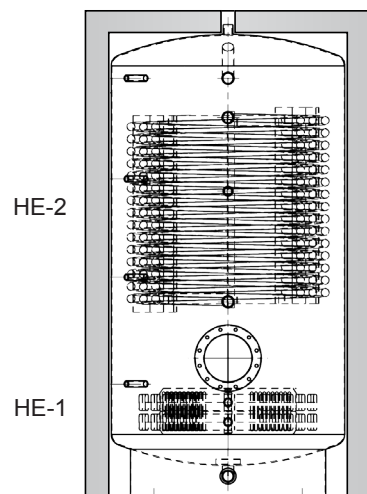
# ESWG - ECOTHERM High Capacity Water Heaters

## with flat spiral heating coils and twofold or threefold spiral coils

### Design

Water heater made of Duplex / 316Ti stainless steel with partially patented heat exchangers. The heat exchangers can be used in single or in parallel operation. For both options big heat exchanger surfaces enable high heat transfer rates and low temperature spreads.

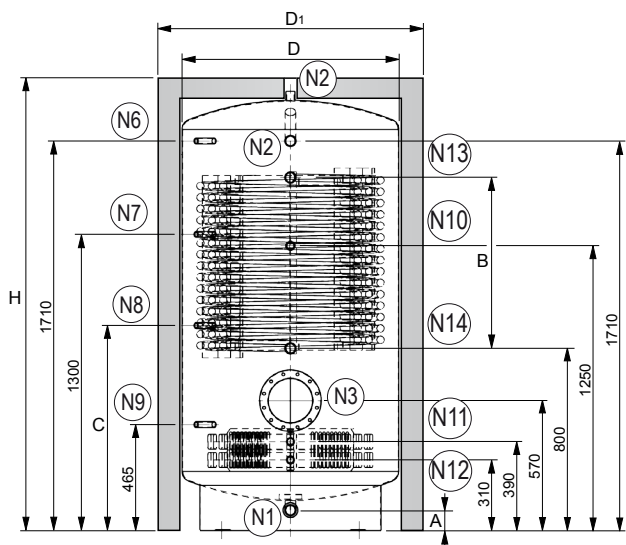
- Almost 100% volume usage
- Very high heat transfer rates even at low temperature spreads
- Applicable also for use with heat pump in combination with solar thermal collectors



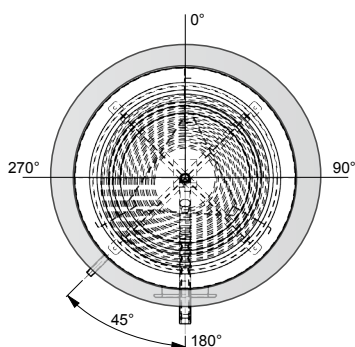
ESWG - High capacity water heater with two integrated heat exchangers

Storage tank type	Article number	Capacity liters	HE-areas			HE-capacity at 7555/1060		
			HE1 + HE2 m <sup>2</sup>	HE1 m <sup>2</sup>	HE2 m <sup>2</sup>	HE1+HE2 kW	HE1 kW	HE2 kW
ESWG-540-5		540	5.1	1.6	3.5	100	40	60
ESWG-540-7		540	6.5	1.6	4.9	120	40	80
ESWG-800-7		800	7.3	2.4	4.9	140	60	80
ESWG-800-10		800	9.6	2.4	7.2	180	60	120
ESWG-1000-10		1000	9.6	2.4	7.2	180	60	120
ESWG-1000-12		1000	12.4	2.4	10.0	225	60	165
ESWG-1250-15		1250	14.8	4.8	10.0	285	120	165
ESWG-1500-17		1500	16.8	4.8	12.0	320	120	200
ESWG-2000-17		2000	16.8	4.8	12.0	320	120	200

### Connections and installation heights (mm)



Connection	Size	Sleeve position°	Description
N1 to 630L	1" MT	180°	Cold water inlet / drain
N1 up 800L	6/4" MT	180°	Cold water inlet / drain
N2 to 630L	1" FT	top	Hot water outlet
N2 up 800L	6/4" MT	180°	Hot water outlet
N3	DN 200	180°	Cleaning flange
N6	1/2" FT	225°	Thermometer
N7	1/2" FT	225°	Temperature sensor 3
N8	1/2" FT	225°	Temperature sensor 2
N9	1/2" FT	225°	Temperature sensor 1
N10	1" FT	180°	Circulation
N11	1" MT	180°	HE1 lower heat exchanger inlet
N12	1" MT	180°	HE1 lower heat exchanger return
N13 to 4.9m <sup>2</sup>	5/4" MT	180°	HE2 upper heat exchanger inlet
N14 to 4.9m <sup>2</sup>	5/4" MT	180°	HE2 upper heat exchanger return
N13 up 6.9m <sup>2</sup>	6/4" MT	180°	HE2 upper heat exchanger inlet
N14 up 6.9m <sup>2</sup>	6/4" MT	180°	HE2 upper heat exchanger return



### Fiber-fleece insulation

Storage tank insulation made of fiber-fleece with robust PP outer sheeting in RAL7037, patented aluminum closure strip and self-fixing sleeve caps, quick and easy installation, 100% recyclable, fire protection class B2.

Typ	max. operating pressure	test pressure
Storage tank	6 bar	7.8 bar
Heat exchanger	10 bar	13 bar

### ESWG - High capacity water heater with two integrated heat exchangers

Storage tank type	Article number	Capacity liters	A mm	B mm	C mm	D mm	D <sub>1</sub> mm	H mm	Weight kg	Insulation mm
ESWG-540-5		540	90	550	1,170	650	810	1,960	135	100
ESWG-540-7		540	90	750	1,300	650	810	1,960	155	100
ESWG-800-7		800	80	650	1,230	790	950	1,980	210	100
ESWG-800-10		800	80	650	1,230	790	950	1,980	235	100
ESWG-1000-10		1,000	80	650	1,230	890	1,050	1,980	250	100
ESWG-1000-12		1,000	80	750	1,230	890	1,050	1,980	280	120
ESWG-1250-15		1,250	90	750	900	950	1,150	1,990	365	120
ESWG-1500-17		1,500	70	750	900	1,100	1,300	2,000	430	120
ESWG-2000-17		2,000	70	750	900	1,200	1,400	2,050	450	120

Further storage tank sizes and heat exchanger surfaces available on request.

# ESWS - ECOTHERM Universal Water Heaters

## with variable installation options



Accessories see pages 27-29



### Design

Water heaters made of stainless steel Duplex / 316Ti with variable energy input for all conventional and alternative energy sources, installation options for several heat exchangers and electric heating cartridges, mounting hole D 3/4" for use of a heat exchanger through the flange, bath pickled, low maintenance, optimized hygiene standard, flange DN 200 at front for cleaning purpose or for installation of an additional heat exchanger or electric screw-in heater, cold water connection at back or at front.

- Variable energy inputs
- Increased heat exchanger surfaces
- Optimized hygiene

### Fiber-fleece insulation

Storage tank insulation made of fiber-fleece with robust PP outer sheathing RAL7037, patented aluminum closure strip and self-fixing sleeve caps, quick and easy installation, insulation thickness 100 mm, 100% recyclable, fire protection class B2.

Type	Capacity tank liters	max. operating pressure	Test pressure
Storage tank	200 - 540	10 bar	13 bar
Storage tank	800 - 1,000	6 bar	7.8 bar

Storage tank type	HE installation at N3 liters	HE installation at N4 liters	HE installation at N5 liters	HE installation at N15 liters
ESWS-300	295	-	-	257
ESWS-400	382	312	-	212
ESWS-500	483	394	-	240
ESWS-800	754	593	367	-
ESWS-1000	878	691	423	-

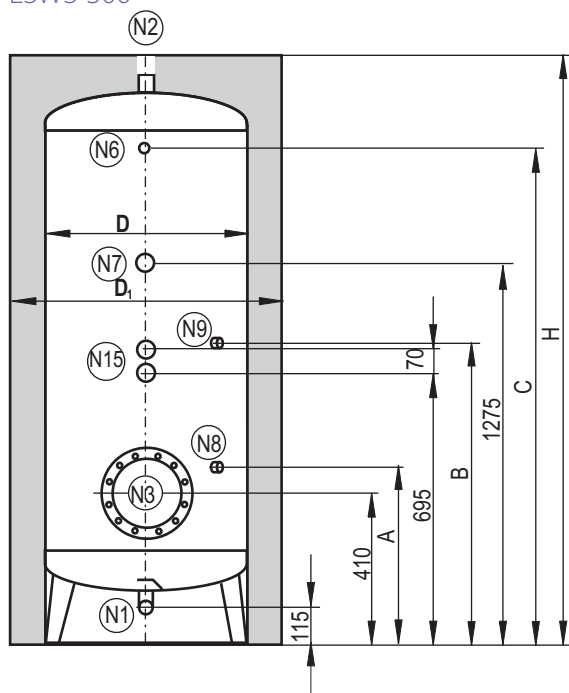
Heat exchanger	WT-E-18			WT-E-25			WT-E-36			WT-E-45			
	Storage tank type	kW	l/h (10°>45°C)	NL*	kW	l/h (10°>45°C)	NL*	kW	l/h (10°>45°C)	NL*	kW	l/h (10°>45°C)	NL*
ESWH-300	24.6	604	8	-	-	-	-	-	-	-	-	-	-
ESWH-400	24.6	604	11	34.2	839	15	-	-	-	-	-	-	-
ESWH-500	24.6	604	13	34.2	839	17	49.2	1,209	21	-	-	-	-
ESWH-800	24.6	604	16	34.2	839	20	49.2	1,209	27	61.5	1,511	34	-
ESWH-1000	24.6	604	17	34.2	839	22	49.2	1,209	29	61.5	1,511	37	-

\*NL = Performance index according to DIN4708: primary 80°→60°C; domestic water 10°→45°C

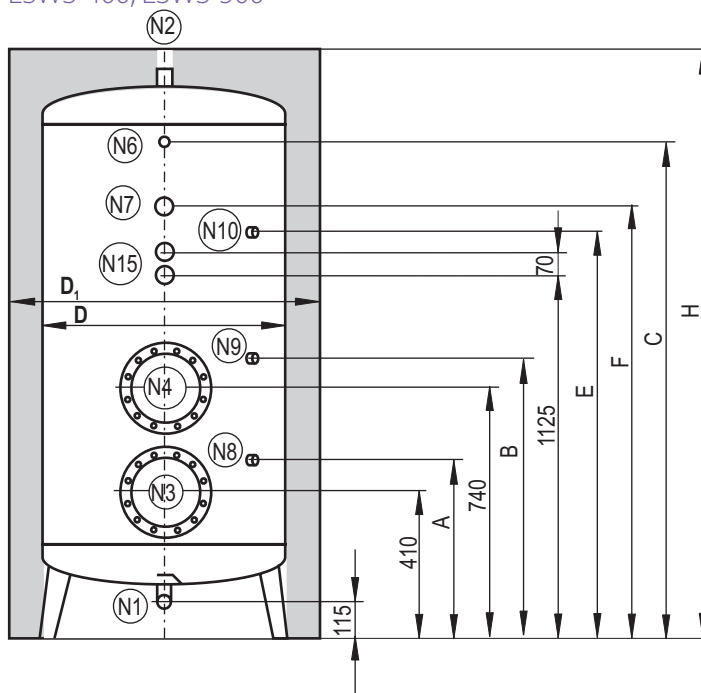
For more details about tube heat exchangers WT-E see page 24.

### Connections and installation heights (mm)

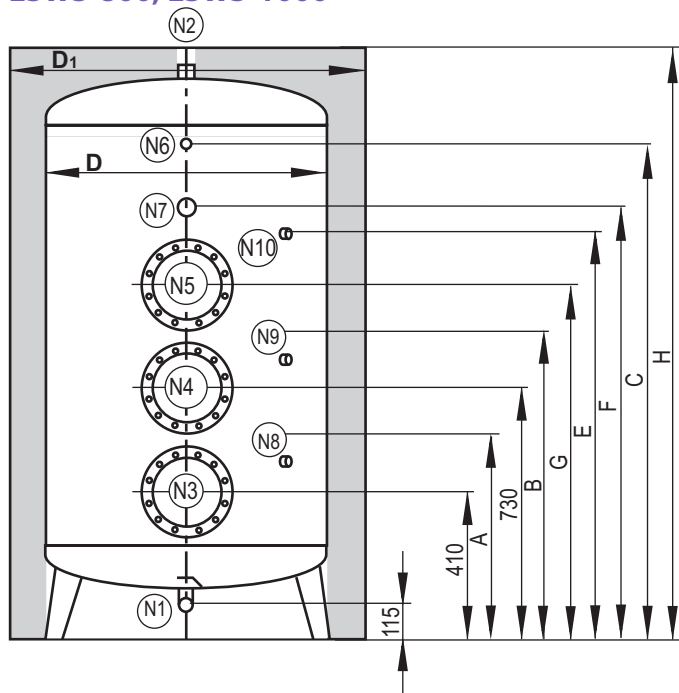
ESWS-300



ESWS-400, ESWS-500



ESWS-800, ESWS-1000



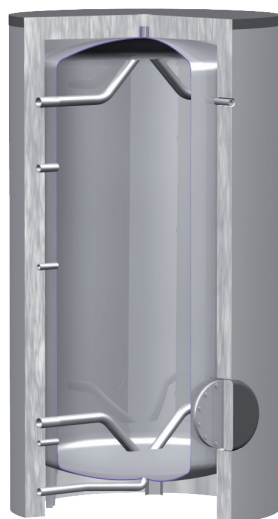
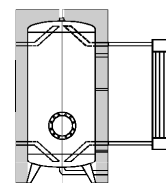
Dimensions and installation heights (mm)

Connection	Size	Sleeve position°	Description
N1 up to 500	1" MT	180°	Cold water inlet, drain
N1 from 800L	6/4" MT	180°	Cold water inlet, drain
N2	6/4" FT	top	Hot water outlet
N3	DN 200	180°	Cleaning or mounting flange
N4*)	DN 200	180°	2. Cleaning or mounting flange
N5*)	DN 200	180°	3. Cleaning or mounting flange
N6	1/2" FT	180°	Thermometer
N7	6/4" FT	180°	Electric screw-in heater
N8	1/2" FT	135°	Temperature sensor 1
N9	1/2" FT	135°	Temperature sensor 2
N10	1/2" FT	135°	Temperature sensor 3
N15*)	2 x DN 3/4"	180°	installation for tube heat exchanger

\*) N4, N5 & N15 are only available for some models

Storage tank type	Capacity liters	A mm	B mm	C mm	D mm	D <sub>1</sub> mm	E mm	F mm	G mm	H mm	Storage tank weight kg
ESWS-300	300	480	780	1,445	500	660	-	-	-	1,920	53
ESWS-400	400	500	830	1,465	600	760	1,250	1,340	-	1,920	64
ESWS-500	500	500	830	1,465	650	810	1,250	1,340	-	1,890	81
ESWS-800	800	500	820	1,485	790	1,000	1,290	1,380	1,200	1,980	128
ESWS-1000	1,000	500	820	1,485	890	1,110	1,290	1,235	1,045	1,980	143

## ESWE - ECOTHERM Storage Tanks for external heat exchangers



### Design

Water heaters made of stainless steel Duplex / 316Ti, connections for external plates and/or shell & tube heat exchangers, designed for optimal layering with almost 100% volume usage, bath pickled, low maintenance. Up to 3,000 liters capacity - flange DN 200 at front for cleaning purpose or for installation of an additional heat exchanger or screw-in heater. From 4,000 liter capacity - inspection flange DN 400. Cold water connection from the sides or bottom, circulation connection.

- For external plate or shell & tube heat exchangers
- Almost 100% volume usage
- Optimal layering
- Optimized hygiene

Accessories see pages 27–29

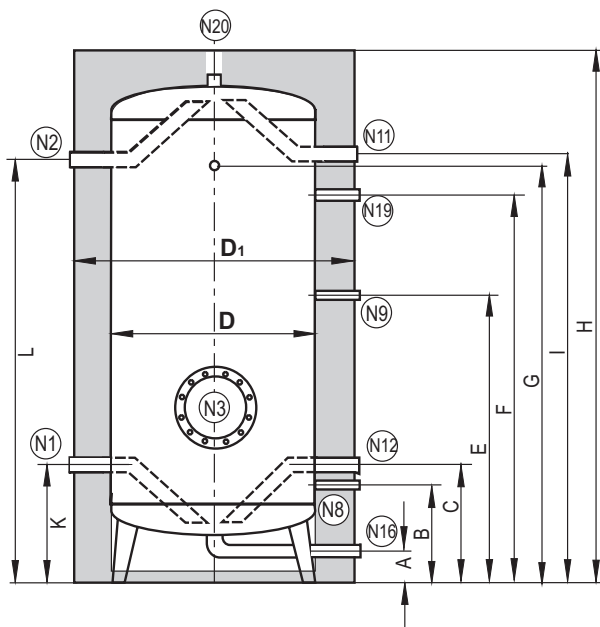
### Fiber-fleece insulation

Storage tank insulation made of fiber-fleece with robust PP outer sheathing RAL7037, patented aluminum closure strip and self-fixing sleeve caps, quick and easy installation, insulation thickness 100 mm up to 1,000 liters and above 120 mm. 100% recyclable, fire protection class B2 (B1 upon request).

### Dimensions and installation heights (mm)

Storage tank type	Capacity Liter	A	B	C	D	D <sub>1</sub>	E	F	G	I	H	K	L	Tilt dimension mm	Tank weight kg	Insulation mm
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm			
ESWE-200	200	115	310	390	500	660	760	1,010	1,160	1,160	1,450	390	1,160	1,400	59	100
ESWE-300	300	115	310	390	500	660	1,010	1,320	1,580	1,580	1,920	390	1,580	1,900	71	100
ESWE-540	540	115	310	390	650	810	1,010	1,320	1,580	1,580	1,940	390	1,580	1,920	85	100
ESWE-750	750	115	310	390	750	910	1,010	1,400	1,660	1,660	1,980	390	1,660	1,950	113	100
ESWE-1000	1,000	115	310	390	890	1,110	1,010	1,400	1,660	1,660	1,980	390	1,660	1,950	147	100
ESWE-1250	1,250	115	310	390	950	1,220	1,010	1,400	1,660	1,660	2,010	390	1,660	1,975	197	120
ESWE-1500	1,500	115	310	390	1,100	1,320	1,010	1,400	1,660	1,660	2,025	390	1,660	2,010	228	120
ESWE-2000	2,000	115	310	390	1,250	1,470	1,010	1,400	1,660	1,660	2,050	390	1,660	2,045	335	120
ESWE-2500	2,500	115	310	390	1,350	1,570	1,010	1,400	1,660	1,660	2,215	390	1,660	2,290	417	120
ESWE-3000	3,000	115	310	390	1,350	1,570	1,160	1,730	2,160	1,990	2,615	390	2,160	2,490	470	120
ESWE-4000	4,000	165	360	440	1,500	1,760	1,560	1,950	2,210	2,210	2,630	440	2,210	2,750	557	120
ESWE-5000	5,000	165	360	440	1,680	1,940	1,560	1,950	2,210	2,210	2,900	440	2,210	2,960	662	120
ESWE-6000	6,000	165	410	490	1,680	1,940	1,610	2,000	2,260	2,260	3,000	490	2,260	3,100	740	120
ESWE-7000	7,000	165	410	490	1,900	2,160	1,810	2,250	2,540	2,540	3,500	490	2,540	3,550	825	120
ESWE-8000	8,000	165	410	490	1,900	2,160	2,010	2,500	2,820	2,820	4,100	490	2,820	4,150	910	120

Connections and installation heights (mm)



Connection	Size	Sleeve position °	Description
N1 up to 1,000L	5/4" MT	270°	Cold water inlet
N1 from 1,250L	6/4" MT	270°	Cold water inlet
N1 from 3,000L	2" MT	270°	Cold water inlet
N2 up to 1,000L	5/4" MT	270°	Hot water outlet
N2 from 1,250L	6/4" MT	270°	Hot water outlet
N2 from 3,000L	2" MT	270°	Hot water outlet
N3 up to 3,000L	DN 200	180°	Cleaning flange
N3 from 4,000L	DN 400	180°	Inspection flange
N8	1/2" FT	90°	Temperature sensor
N9	1/2" FT	90°	Temperature sensor
N11 up to 5,000L	5/4" MT	90°	HW from ext. heat exchanger (inlet)
N11 from 6,000L	6/4" MT	90°	HW from ext. heat exchanger (inlet)
N11 from 6,000L	6/4" MT	90°	HW from ext. heat exchanger (inlet)
N12 up to 5,000L	5/4" MT	90°	Outlet to ext. heat exchanger (return)
N12 from 6,000L	6/4" MT	90°	Outlet to ext. heat exchanger (return)
N16 up to 1,500L	1" MT	90°	Drain
N16 from 2,000L	6/4" MT	90°	Drain
N19 up to 1,000L	1" MT	90°	Circulating
N19 from 1,250L	6/4" MT	90°	Circulating
N20	6/4" FT	top	Air vent

Storage tank type	max. Operating pressure	Test pressure
all sizes	6 bar	7.8 bar
	10 bar	13 bar
	16 bar	20,8 bar

# ECOTHERM Individual Water Heaters

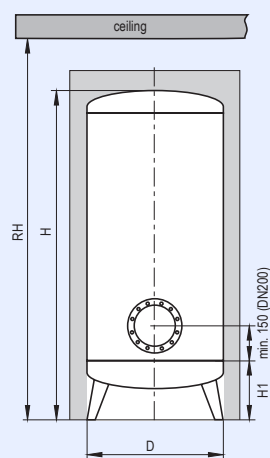
Configure your individual stainless steel water heater step by step:

## 1) Type



- Type ESWE;** no heat exchanger
- Type EHSF1;** one flat heating coil
- Type EHSF2;** two flat heating coils
- Type ESWH1;** one heating coil
- Type ESWH2;** two heating coils
- Type ESWG;** High capacity water heaters with combined heat exchangers

## 2) Storage Tank



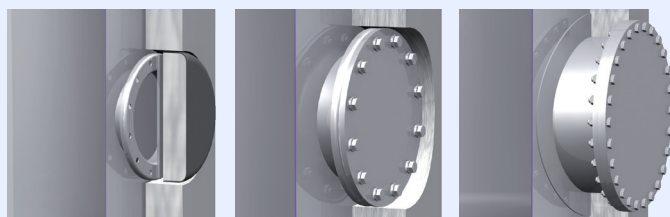
- Capacity [200 to 20,000 liters] \_\_\_\_\_
- Height of storage tank without insulation [H; mm] \_\_\_\_\_
- Height of lower edge of the mantle [H1; mm] \_\_\_\_\_
- Ceiling height / tilt height [RH; mm] \_\_\_\_\_
- Diameter of storage tank without insulation [D; mm] \_\_\_\_\_
- Material of storage tank [1.4571, Duplex etc.] \_\_\_\_\_
- Maximal operational pressure [6 or 10 bar] \_\_\_\_\_
- Standard operational pressure [6 oder 10 bar] \_\_\_\_\_
- Maximal water temperature [°C] \_\_\_\_\_
- Orientation [vertically on pedestals, vertically on ring, horizontally] \_\_\_\_\_

As a standard all ECOTHERM water heaters are shipped with a high quality fibre-fleece insulation (up to 1,000 liters 80mm and above 100m).

## 3) Flange

For all ECOTHERM stainless steel tanks a cleaning flange with a minimal diameter of 200mm is required for bath pickling.

- Number of flanges: \_\_\_\_\_
- Flange diameter: [200, 300 or 400 mm]: \_\_\_\_\_



DN200

DN300

DN400



# WT-E - ECOTHERM Tube Heat Exchanger

for hot water operation, 6 bar



### Design

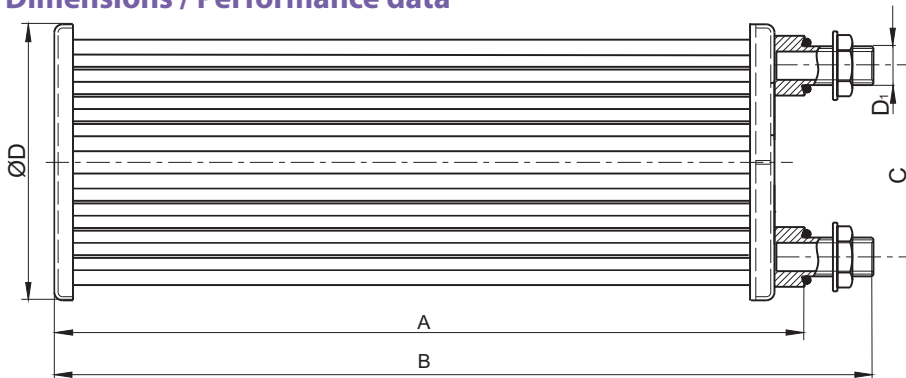
Tube heat exchanger made of stainless steel 316Ti, designed as built-in register, installation by appropriate flange or installation in the tank, low fouling and low danger of calcification by plain pipe surface, installation with flange DN 200. Galvanic isolation up to 90°C operating temperature (above 90°C: Special seal - see accessories).

- Designed as built-in register
- Operating/test pressure of 6/7.8 bar
- Stainless steel 1.4571
- For variable energy inputs

### Optional accessories

- Flange plate for installation via the cleaning flange
- Flange plate for "secondary storage tank" on request

### Dimensions / Performance data



Heat exchanger type	Surface m <sup>2</sup>	A mm	B mm	C mm	D mm	D <sub>1</sub> mm	Continuous performance primary 80°>60°C			Pressure loss mbar	Weight kg
							l/h (45°C)	kW	primary m <sup>3</sup> /h		
WT-18-E	0.84	430	480	70	175	R3/4"	604	24.6	1.1	8	10.1
WT-25-E	1.2	580	625	70	175	R3/4"	839	34.2	1.5	26	12.5
WT-36-E	1.6	660	705	120	175	R3/4"	1209	49.2	2.2	40	14.1
WT-45-E	2	820	865	120	175	R3/4"	1511	61.5	2.7	80	17.8

### Heat exchanger pressure loss WT-E

Heat exchanger type	Pressure loss in mbar at				Flow rate resistance factor (z)	Formula for calculating pressure loss
	1 m <sup>3</sup> /h	1.5 m <sup>3</sup> /h	2 m <sup>3</sup> /h	3 m <sup>3</sup> /h		
WT-18-E	40	90	160	360	40	$\text{mbar} = (\text{m}^3/\text{h})^2 * z$ mbar = pressure loss primary circuit m <sup>3</sup> /h = flow rate z = flow rate resistance factor
WT-25-E	42	95	168	378	42	
WT-36-E	45	102	180	405	45	
WT-45-E	48	108	192	432	48	

## WBE - ECOTHERM Tube Heat Exchanger

for steam operation, 12 bar



### Design

Tube heat exchanger made of stainless steel 316Ti, designed as a built-in register, installation by appropriate flange or installation in the tank, low fouling and low danger of calcification by plain pipe surface, installation with flange DN 200 with heat exchanger area to 2.1 m<sup>2</sup> DN 200, up to 4.0 m<sup>2</sup> DN 300 and above 4 m<sup>2</sup> DN 400. Galvanic isolation up to 90°C operating temperature (above 90°C: Special seal - see accessories)

- Design as built-in register
- Operating/test pressure 12/16 bar
- Stainless steel 1.4571
- For steam operation

### Optional accessories

- Flange plate for installation via the cleaning flange
- Flange plate for "secondary storage tank" on request

### Dimensions / Performance data

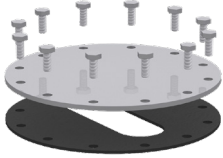
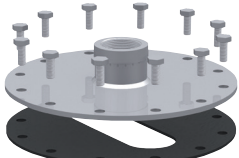
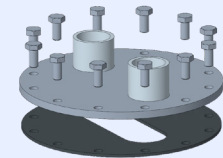
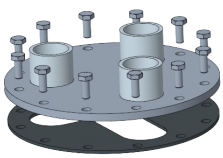
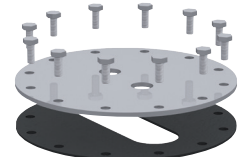
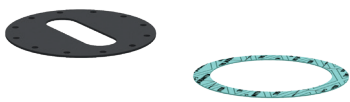


Heat exchanger type	Surface m <sup>2</sup>	A mm	B mm	C mm	D mm	D <sub>1</sub> mm	D <sub>2</sub> mm	Continuous performance primary 80°>60°C			Pressure loss mbar	FRR-factor z*	Weight kg**
								45°C l/h	kW	primary m <sup>3</sup> /h			
WBE-04-D	0.4	420	465	85	140	3/4" MT	3/4" MT	269	10.9	0.47	5	22	5
WBE-06-D	0.5	520	565	85	140	3/4" MT	3/4" MT	336	13.7	0.59	10	28	6
WBE-07-D	0.7	620	665	85	140	3/4" MT	3/4" MT	470	19.1	0.83	19	28	7
WBE-10-D	1.0	560	605	115	185	3/4" MT	3/4" MT	672	27.3	1.18	20	14	11
WBE-13-D	1.3	700	745	115	180	3/4" MT	3/4" MT	873	35.5	1.53	26	14	13
WBE-15-D	1.5	785	830	115	180	3/4" MT	3/4" MT	1,007	41.1	1.77	54	17	15
WBE-21-D	2.1	845	890	115	180	3/4" MT	3/4" MT	1,343	54.7	2.35	76	13	18
WBE-26-D	2.6	700	745	200	275	1" MT	1" MT	1,746	71.1	3.11	82	9	30
WBE-30-D	3.0	842	907	180	275	5/4" MT	5/4" MT	2,015	82.1	3.57	90	7	33
WBE-40-D	4.0	1,000	1,055	180	275	5/4" MT	5/4" MT	2,451	100	4.29	108	6	41
WBE-60-D	6.0	971	1,034	200	325	6/4" MT	6/4" MT	4,029	164	7.05	172	3.5	64
WBE-80-D	8.0	1,192	1,257	200	325	2" MT	2" MT	5,372	218.7	9.4	298	3.5	77
WBE-100-D	10.0	1,288	1,253	230	355	2" MT	2" MT	6,716	273.4	11.75	378	3	100
WBE-120-D	12.0	1,380	1,445	230	355	2" MT	2" MT	8,059	328	14.1	604	3	114


# Accessories

## Flanges


Flange plates for cleaning-mounting flange (including seal and bolts) for stainless steel storage tanks

	Accessories Type	Article Number	Description
	NBFL270/6	59150002	Blank flange, flange NW 200, 6mm, stainless steel 1.4571
	NBFL270/10	59150005	Blank flange, flange NW 200, 10mm, stainless steel 1.4571
	MFL-1x6/4"/270	59110000	Flange with 6/4" sleeve for electric screw-in heaters, flange NW 200 stainless steel 1.4571
	MFL-2x6/4"/270	59110006	Flange with two 6/4" sleeve for electric screw-in heaters, flange NW 200 Stainless Steel 1.4571
	MFL-3x6/4"/270	59110005	Flange with three 6/4" sleeve for electric screw-in heaters, flange NW 200 Stainless Steel 1.4571
	FL0,75/70	59120003	Flange for tube heat exchanger Type H (heating water) WT-18-E und WT-25-E, Flansch NW 200
	FL0,75/120	59120004	Flange for tube heat exchanger Type H (heating water) WT-36-E und WT-45-E, Flansch NW 200
	FL0,75/85	59120005	Flange for tube heat exchanger Type D (steam) WBE04-D bis WBE07-D, Flansch NW 200
	FL0,75/115	59120006	Flange for tube heat exchanger Type D (steam) WBE10-D bis WBE15-D, Flansch NW 200
	FL1,00/200	59120007	Flange for tube heat exchanger Type D (steam) WBE20-D und WBE26-D, Flansch NW 300
	FL1,25/180	59120008	Flange for tube heat exchanger Type D (steam) WBE30-D und WBE40-D, Flansch NW 300
	GD 265(60x180) x4	23640003	Flat gasket 265 (60 x 180) x 4 mat.: EPDM ( 70° Shore) to FL-NW200
	KD 165/205/2	23610000	Flange gasket Klingerit 265/205x2 C-4400


## External current anode

Accessories Type		Description
	FSA-402	Titanium electrode 402 mm Art.60000038 (for Storage from 200 - 540 Liter)
	FSA-832	Titanium electrode 832 mm Art.60000043 (for Storage from 750 Liter)
	Drilling	Plugs, cap, flange and bolt for ground weld on




## Layer lance for buffer tanks

	Accessories Type	Article Number	Description
	SL-PSP		Layer lance 1" MT/MT, 700 mm
	SL-PSP		Layer lance 5/4" MT/MT, 700 mm

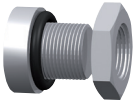

## Thermometer

Accessories Type		Description
	TM63x150	Disc thermometer Ø 63 x 150 mm

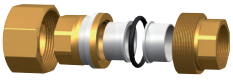
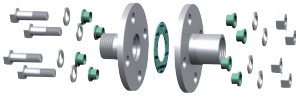
## Thermowells made of stainless steel 1.4571

	Accessories Type	Article Number	Description
 <p>Thermowell with cable fitting</p>	TH1/2"x60M16x1,5	59210001	Thermowell with cable fitting for temperature sensor, L = 60 mm, Inside Ø 8 mm, stainless steel 1.4571
	TH1/2"x160M16x1,5	59210000	Thermowell with cable fitting for temperature sensor, L = 160 mm, Inside Ø 8 mm, stainless steel 1.4571
	TH1/2"x200M16x1,5	59210004	Thermowell with cable fitting for temperature sensor, L = 200 mm, Inside Ø 8 mm, stainless steel 1.4571
 <p>Thermowell with clamping screw</p>	TH1/2"x60K	59220000	Thermowell with clamping screw for Thermometer, L = 60 mm, Inside Ø 8 mm, stainless steel 1.4571
	TH1/2"x160K	59220002	Thermowell with clamping screw for Thermometer, L = 160 mm, Inside Ø 8 mm, stainless steel 1.4571
	TH1/2"x200K	59220005	Thermowell with clamping screw for Thermometer, L = 200 mm, Inside Ø 8 mm, stainless steel 1.4571
 <p>Thermowell with long shaft</p>	TH1/2"x160LS	49220020	Thermowell for Temperature sensors with long shaft, L = 160 mm, Inside Ø 8 mm, stainless steel 1.4571
	TH1/2"x250LS	49220021	Thermowell for Temperature sensors with long shaft, L = 250 mm, Inside Ø 8 mm, stainless steel 1.4301

## Screwings Screw-type blank cap and blanking plug out of stainless steel 1.4571


	Accessories Type	Description
	NBVS	Screw-type blank cap for WT-implementation 3/4" stainless steel 1.4571, (Set = 2 Pcs.)
	SKST-1/2"	Stainless steel-blanking plug 1/2", stainless steel 1.4571
	SKST-3/4"	Stainless steel-blanking plug 3/4", stainless steel 1.4571
	SKST-1"	Stainless steel-blanking plug 1", stainless steel 1.4571
	SKST-5/4"	Stainless steel-blanking plug 5/4", stainless steel 1.4571
	SKST-6/4"	Stainless steel-blanking plug 6/4", stainless steel 1.4571

## Galvanic separating screwing

	Accessories Type	Description
	TR0,75	Electrical separating screwing 3/4", Material Ms
	TR1	Electrical separating screwing 1", Material Ms
	TR1,25/1,25 IA	Electr. separating screwing 5/4", in flange design Mat. V4A
	TR1,5/1,5 IA	Electr. separating screwing 6/4", in flange design Mat. V4A
	TR2,0/2,0 IA	Electr. separating screwing 2", in flange design Mat. V4A

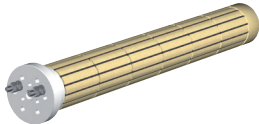
## Electric heating elements

Electrical screw-in heaters made of stainless steel Incoloy-825

	Accessories Type	Nominal Rating kW	Connection Volt	Loading W/cm <sup>2</sup>	Bolting	Immersion depth mm	Thermostat (integrated)
	EHK-I-2000	2.00	400	7.81	6/4"	250	yes
	EHK-I-2250	2.25	400	3.50	6/4"	500	yes
	EHK-I-3000	3.0	400	4.57	6/4"	500	yes
	EHK-I-4500	4.5	400	6.85	6/4"	500	yes
	EHK-I-6000	6.0	400	9.13	6/4"	500	yes
	EHK-I-7500	7.5	400	11.42	6/4"	500	yes
	EHK-I-9000	9.0	400	8.51	6/4"	750	yes
	EHK-I-12000	12.0	400	11.35	6/4"	750	yes
	EHK-I-15000	15.0	400	8.50	2 1/2"	850	not possible
	EHK-I-18000	18.0	400	5.10	2 1/2"	1,100	not possible
	EHK-I-25000	25.0	400	6.80	2 1/2"	1,100	not possible

## Ceramic heaters

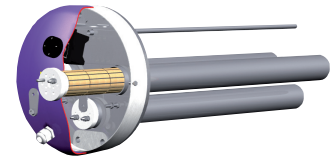
- Replacement of ceramic heating elements without emptying tank
- Long life expectancy
- 2 years guarantee

	Accessories Type	Nominal rating kW	Con-nection Volt, AC	Load current Ampere	Area loading W/cm <sup>2</sup>	Top Ø mm	Immer-sion depth mm	Tube Ø mm
	EHK-K-2000	2	230/400	2.9	5.03	47	370	50
	EHK-K-2500	2.5	230/400	3.6	5.25	47	425	50
	EHK-K-3000	3	230/400	4.3	5.39	47	480	50
	EHK-K-4000	4	400	5.8	4.41	47	700	50
	EHK-K-4000	4.5	400	6.5	4.23	47	800	50
	EHK-K-5000	5	400	7.2	4.01	47	900	50
	EHK-K-6000	6	400	8.7	4.12	47	1,050	50
	EHK-K-7000	7	400	10.1	4.14	47	1,200	50
	EHK-K-8000	8	400	11.6	3.99	47	1,400	50
	EHK-K-9000	9	400	13.0	3.88	47	1,600	50
	EHK-K-10000	10	400	14.5	4.04	47	1,800	50

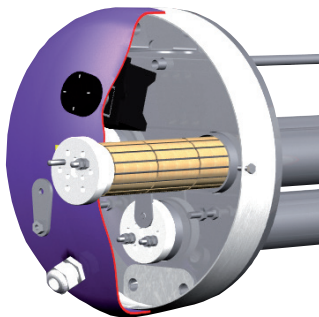
## Electric flange with ceramic inserts

**Electric heating inserts: Stainless steel immersion flange with ceramic heating elements, mountable in flange DN 200, including cover.**

- Replacement of ceramic heating elements without emptying tank
- Long life expectancy
- 2 years warranty



Accessories Type	Frame size	Flange quantity	Regulating thermostat	Heaters/ Flange	Heater type	Voltage	Ø of tank
<b>Heating flange 1x DN 200</b>							
EHK-KF-2000	2 kW	1	1	1	2 kW/230V	2x230V/50Hz	500 mm
EHK-KF-3000	3 kW	1	1	1	3 kW/230V	2x230V/50Hz	500 mm
EHK-KF-4000	4 kW	1	1	2	2 kW/230V	3x230V/50Hz	500 mm
EHK-KF-6000	6 kW	1	1	3	2 kW/400V	3x400V/50Hz	500 mm
EHK-KF-7500	7,5 kW	1	1	3	2.5 kW/400V	3x400V/50Hz	500 mm
EHK-KF-9000	9 kW	1	1	3	3 kW/400V	3x400V/50Hz	500 mm
EHK-KF-12000	12 kW	1	1	3	4 kW/400V	3x400V/50Hz	750 mm
<b>Heating flange 2x DN 200</b>							
EHK-KF-15000	15 kW	2	2	3	2.5 kW/400V	3x400V/50Hz	500 mm
EHK-KF-18000	18 kW	2	2	3	3 kW/400V	3x400V/50Hz	500 mm
EHK-KF-24000	24 kW	2	2	3	4 kW/400V	3x400V/50Hz	750 mm
<b>Heating flange 2x DN 300</b>							
EHK-KF-30000	30 kW	2	double-pole	6	2.5 kW/400V	3x400V/50Hz	800 mm
EHK-KF-36000	36 kW	2	double-pole	6	3 kW/400V	3x400V/50Hz	800 mm





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