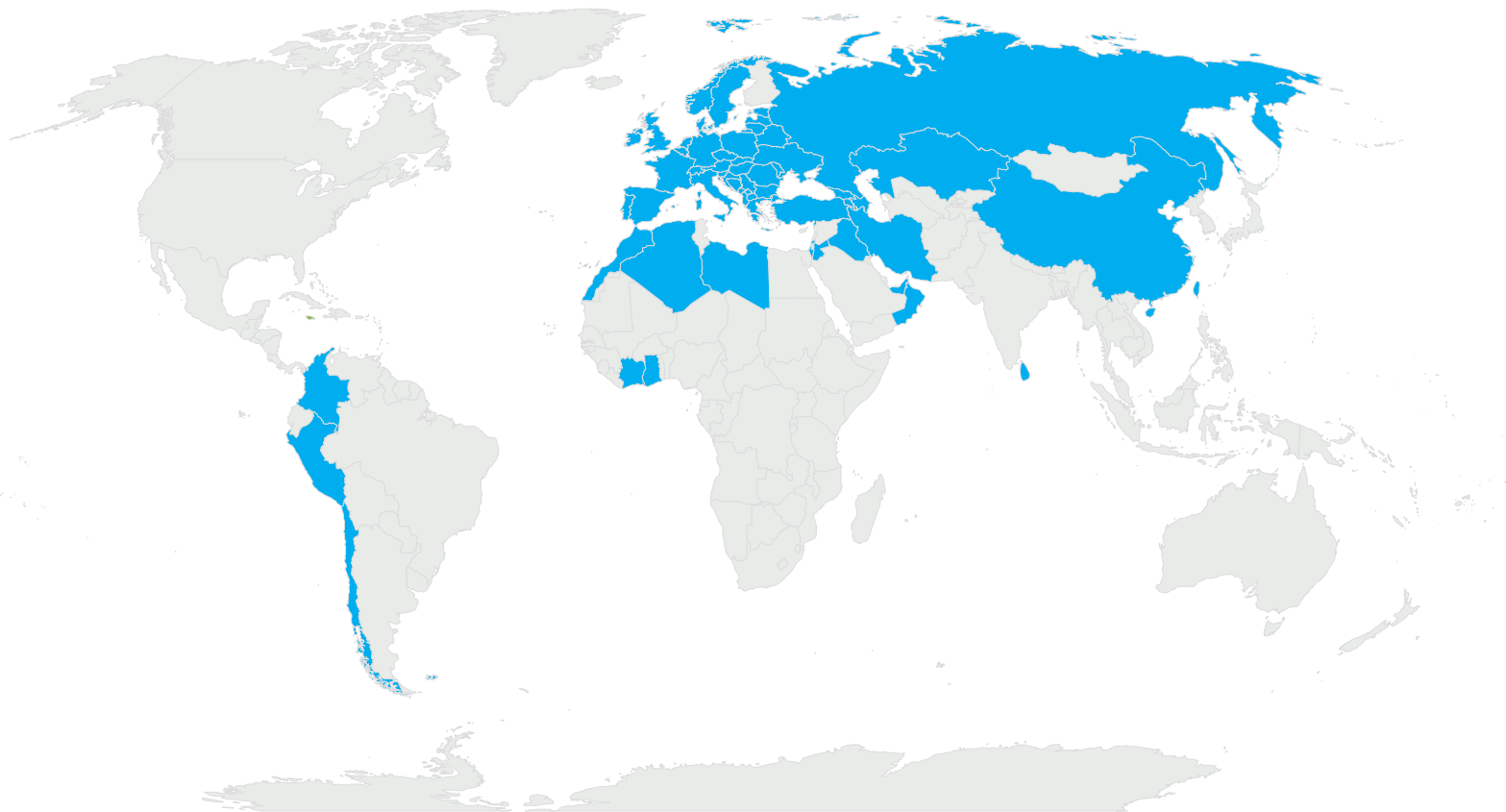




PRO



PROFI LINE PRODUCTS



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corporate video



**MORE THAN
55 COUNTRIES**

4 CONTINENTS

**MORE THAN
840 EMPLOYEES**

4 FACTORIES

ABOUT TESI

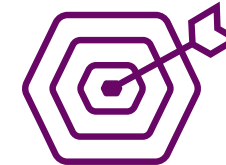
TESY is one of the leading European producers of **electric storage water heaters, indirectly heated water tanks, electric heating appliances** and **heat pump water waters**.

In the last decade TESI showed a rapid development and introduced to the world a wide range of cutting-edge products and patented solutions that meet the current requirements for energy efficiency and environmental protection.

The company continues its development by investing in the latest technologies, its production capacity expansion and launching new product offerings..

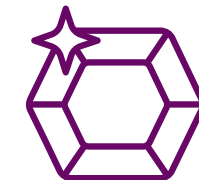
Since October 2017, TESI has been an official member of the EHPA (European Heat Pump Association), which aims to provide technical support and financial support to European, national and local authorities on legislative, regulatory and energy efficiency matters.

TESY is also member of the European Technical Commission that works directly on the development of European regulations regarding energy efficiency, for which we carry out laboratory tests and analyses of electric water heaters in order to verify and validate the methodology described in the European regulations.



MISSION

We set our hearts and minds on bringing warmth into your life.



VALUES

➤ PASSION

We are a passionate team of enthusiastic professionals with ambitious goals. Leading by example, we create a culture that inspires people to go the extra mile.
We put our hearts and minds in everything we do to embrace dynamic change.

➤ INNOVATION

TESY people are open-minded, eager to learn and inspired to create.
Challenging the status quo, we employ the latest technologies in supreme functionality and impressive design.

➤ TRUST

The shared vision for openness and integrity is the core virtue of TESI's long-term partnerships.
Supportive, loyal and trustful, we offer reliable products and service quality with respect for the individual.



VISION

Raising the bar in our industry, to be globally recognised as a leader of innovation and design in hot water and heating solutions.
More comfort with a single touch.



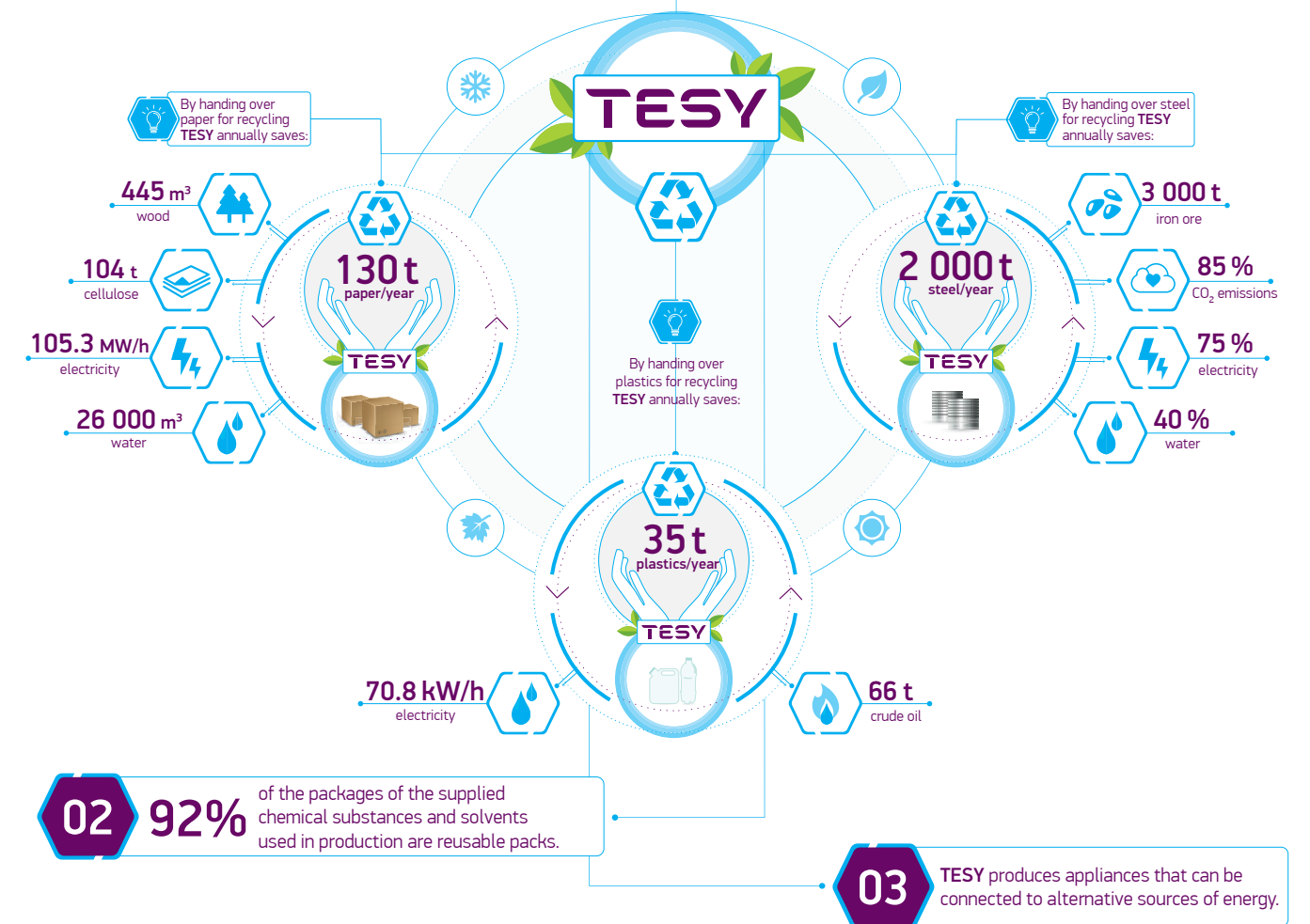
TESY is committed to integrate Corporate Social Responsibility into all business policies and practices and thus minimise the environmental impact during production.

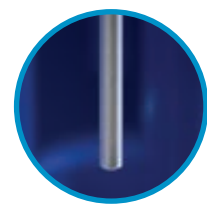
We strive to constantly improve established processes and we are strictly following all regulations for environmental protection.

As our focus is on efficiency, our appliances can also use alternative sources of energy.



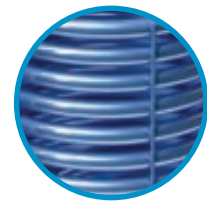
01 94 % of TESY's waste is handed over for recycling and / or recovery.





MAGNESIUM ANODE PROTECTORS

The **magnesium anode** supports the CrystalTech Pro enamel coating for trouble-free operation. TESI products contain 1, 2 or 3 magnesium anode protectors, according to the volume of the tank, in order to effectively protect the whole inner surface.



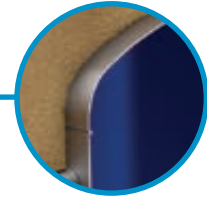
HEAT EXCHANGER

High efficiency, strength and durability.



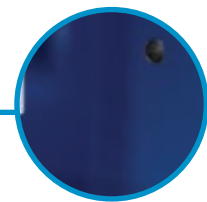
WHITE PS EXTERNAL JACKET (OPTIONAL)

TESI offers its customers the option to choose a white external jacket in certain ranges of products. The PS jacket preserves its shape and ensures good aesthetics throughout the product life.



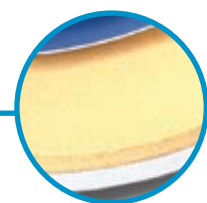
ROBOTISED WELDING PROCESS

The highly robotised technology ensures a high-quality and durable bond between the edges of the cylinder and domes of the water tank.



CRYSTALTECH PRO

Crystaltech PRO is a highly durable glass ceramic coating of the water tank for protection against corrosion. The high level of precision of the enameling process ensures an even distribution of the enamel coating on the whole surface. The level of adhesion to the metal enhances the reliability and durability of the water heater.



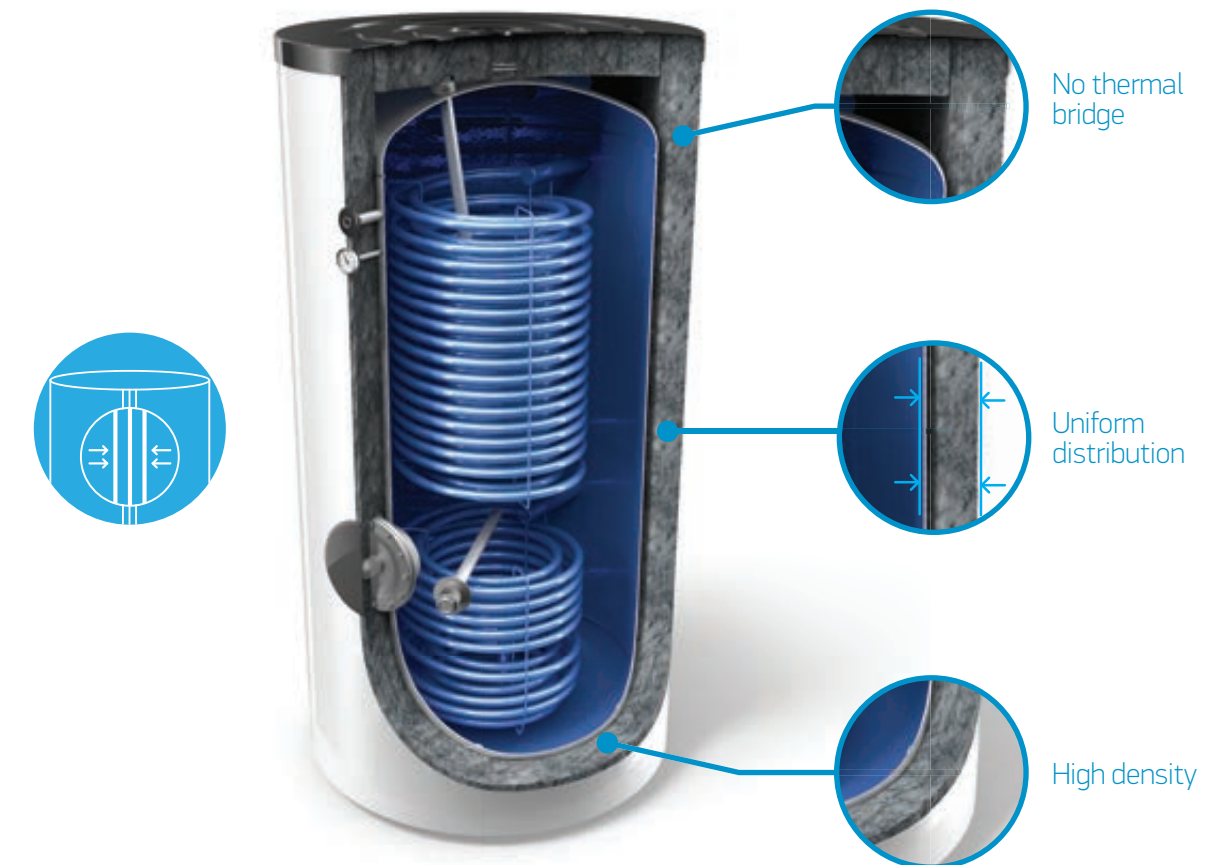
PU INSULATION

CFC free formula with high density and uniform distribution around the tank which ensures that TESI's products are energy efficient.

INSU PRO

NEW INSULATION TECHNOLOGY

INSU PRO is a new specially developed technology for highly-efficient insulation in PROFi products of large capacity 750 L - 2000 L.



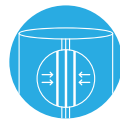
MAIN ADVANTAGES:

- Highly-efficient insulation ensuring very low standing losses.
- Environmentally friendly materials (100% recyclable, made with 70% recycled materials).
- Precise alignment of the water tank and the external jacket for achieving an even thickness of the insulation covering the tanks vertical walls, without a chimney effect.
- Thermal insulation fleece with improved performance compliant with the European energy efficiency standards.
- Closure system by zipper that enables the insulation to be easily dismantled.

INDEX

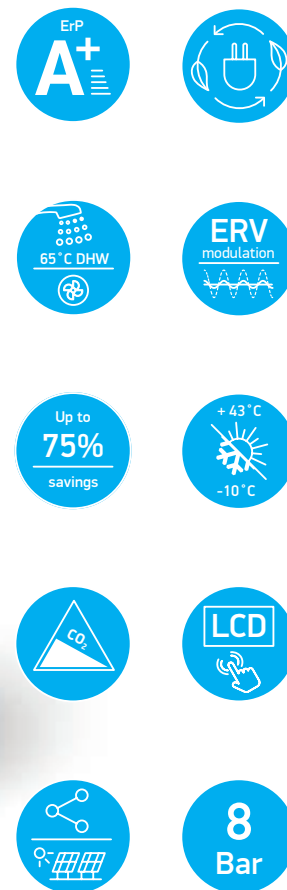
Page 2	About TESI
Page 3	Mission, Vision, Values
Page 4	Corporate Social Responsibility
Page 6	Innovations
Page 8	Content
Page 10	Heat Pump Water Heaters
Page 12	Heat Pump water heaters AquaThermica
Page 16	Domestic Hot Water Indirectly Heated Water Tanks
Page 18	Domestic hot water tanks with high output heat exchangers
Page 28	Domestic hot water tanks with two, one and without heat exchangers
Page 46	Domestic hot water tanks with two inlets and two outlets
Page 56	Domestic hot water tanks with innovative elliptic heat exchangers
Page 62	Domestic hot water tanks with two parallel heat exchangers
Page 66	Domestic hot water tanks for installation under wall-hung gas boiler
Page 70	Enameled buffer tanks for Heat Pump Systems
Page 74	Combined Indirectly Heated Water Tanks
Page 76	Combined Buffer Tanks with corrugated stainless steel hygienic heat exchanger
Page 84	Combined Buffer Tanks with integrated enameled tank (tank-in-tank)
Page 90	Buffer tanks
Page 92	Buffer Tanks with two, one and without heat exchangers
Page 104	Buffer tanks for Heat Pump systems
Page 110	Non-enameled buffer tanks for Heat Pump Systems
Page 114	Solar energy systems
Page 116	Solar energy systems
Page 118	Accessories
Page 121	Indirectly Heated Water Tanks Heating elements and Accessories
Page 122	Heating elements and accessories

TESY uses different pictograms for highlighting the main benefits

	New Insulation Technology INSU PRO		Electronic step motor for precisely balanced refrigerant cycle
	Renewable Energy		Operational temperature range -10 to +43°C
	Energy efficiency class A+		Up to 75% reduced electricity consumption
	Low CO ₂ emissions		65°C DHW with the heat pump only
	Connectivity to Solar and PV panels		User-friendly LCD Display
	3 Bar Rated pressure		6 Bar Rated pressure
	8 Bar Rated pressure		10 Bar Rated pressure

HEAT PUMP WATER HEATERS AQUATHERMICA

ADVANTAGES



HEAT PUMP WATER HEATERS - AquaThermica

AquaThermica is the TESI family of heat pump water heaters for domestic hot water production. This family includes models of 200 L and 260 L, with or without a heat exchanger.

Advantages:

- It is an environmentally friendly product, operating with renewable energy sources resulting in lower CO₂ emissions¹.
- The highest energy efficiency class A+ in its category, according to ErP regulations.
- Programmable with a user-friendly control panel.
- Operates within a wide temperature range of the incoming air from -10°C to +43°C.
- Heats the water up to 65°C with the heat pump only.
- Electric heating element for faster heating up and reaching of higher temperature of 75°C.
- Highly efficient² with a precisely balanced refrigerant cycle due to an electronically commutated motor and an electronic expansion valve.
- Up to 75% lower electricity consumption³.
- It can be connected to other energy sources like PV and solar systems or boilers.
- Automatic anti-legionella cycle.
- Self-diagnostic system.

¹ - According to the European Market and Statistical Report on the European Heat Pump Association 2018.

² - AquaThermica is in energy efficiency class A+.

³ - Compared to a TESI product of the MaxEau family GCV 200 56 20 D06 SRC in energy class C.

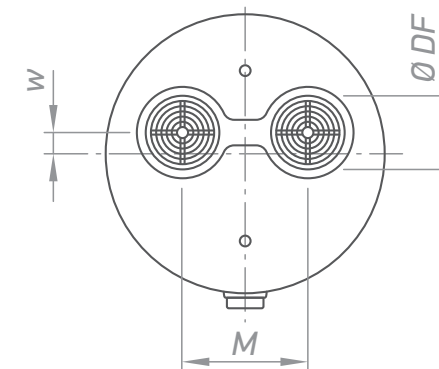
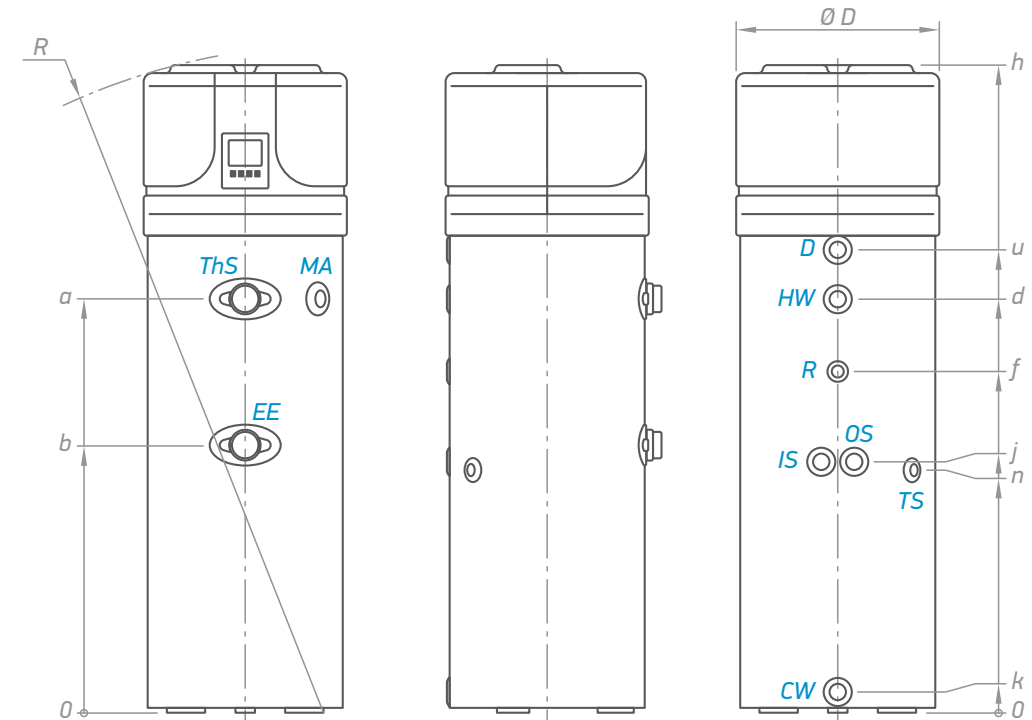
Scan this code
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product video:



Model			AquaThermica 200 + heat exchanger HPWH 2.1 200 U 02 S	AquaThermica 200 HPWH 2.1 200 U 02	AquaThermica 260 + heat exchanger HPWH 2.1 260 U 02 S	AquaThermica 260 HPWH 2.1 260 U 02	
Art. Number			Nº	305061	305005	305062	305004
Performance							
Declared load profile				L	L	XL	XL
Heat pump thermal power yield: prated	Condition EN16147:2017 A7/W55	kW	1.1	1.1	1.2	1.2	
Heating time ;	Condition EN16147:2017 A7/W55	h:m	08:59	08:59	10:15	10:15	
COP _{DHW}	Condition EN16147:2017 A7/W55		2.8	2.8	3.0	3.0	
COP _{DHW}	Condition EN16147:2017 A14/W55		3.1	3.1	3.4	3.4	
Energy efficiency class	Climate condition EN16147:2017 average		A+	A+	A+	A+	
Annual electricity consumption	Climate condition EN16147:2017 average	kWh	867	867	1355	1355	
Sound power Lw(A)	EN12102-2:2019	dB(A)	53	53	53	53	
Electrical data							
Power supply (Frequency)			V (Hz)	1 / N / 230 (50)			
Degree of protection				IPX4			
HP maximum absorption			kW	0.663 + 1.5 (e-heater) = 2.163			
Average heat pump consumption:	Condition EN16147:2017 A7/W55	kW	0.43	0.43	0.466	0.466	
Electric heating element power			kW	1.5			
Maximum current in HP			A	3.1 + 6.5 (e-heater) = 9.6			
Required overload protections			A	16A T fuse/ 16A automatic switch, characteristic C (to be expected when connected to a power supply system)			
Internal protection				Safety thermostat with a manual reset on a resistive element			
Operating conditions							
Min. ÷ max temperature heat pump air intake (90% R.H.)			°C	-10 ÷ 43			
Min. ÷ max temperature installation site			°C	4 ÷ 43			
Working temperature							
HP Maximum settable temperature			°C	75			
Design characteristic							
Compressor / compressore protection				Rotary / thermal circuit breaker with an automatic reset			
Thermodynamic circuit protection type				Safety pressure switches with an automatic reset; [high/low pressure 2.5/0.1 Mpa]			
Fan				Centrifugal			
	Nominal air capacity	m³/h	314				
	Max. pressure head available	Pa	98				
	Motor protection		Internal thermal circuit breaker with an automatic reset				
Condenser			Wound externally, not in contact with the water				
Automatic anti-Legionella cycle			Yes				
Defrosting			4-way valve				
Refrigerant			R134a				
Refrigerant charge			g	880			
Global warming potential			1430				
CO ₂ equivalent			t	1287			
Water storage tank							
Water storage tank capacity			L	194	202	251	260
V40*	EN16147:2017	L	262	272	339	351	
Internal heat exchanger for auxiliary source			m²	1.0	N/A	1.2	N/A
Cathodic protection			Mg anode Ø32x400 mm				
Insulation - rigid PU			mm	50			
Transport weight			kg	112	96	128	110
Maximum working pressure			bar	8			

*Max. quantity of hot water at 40°C.

All models can be ordered in a box.

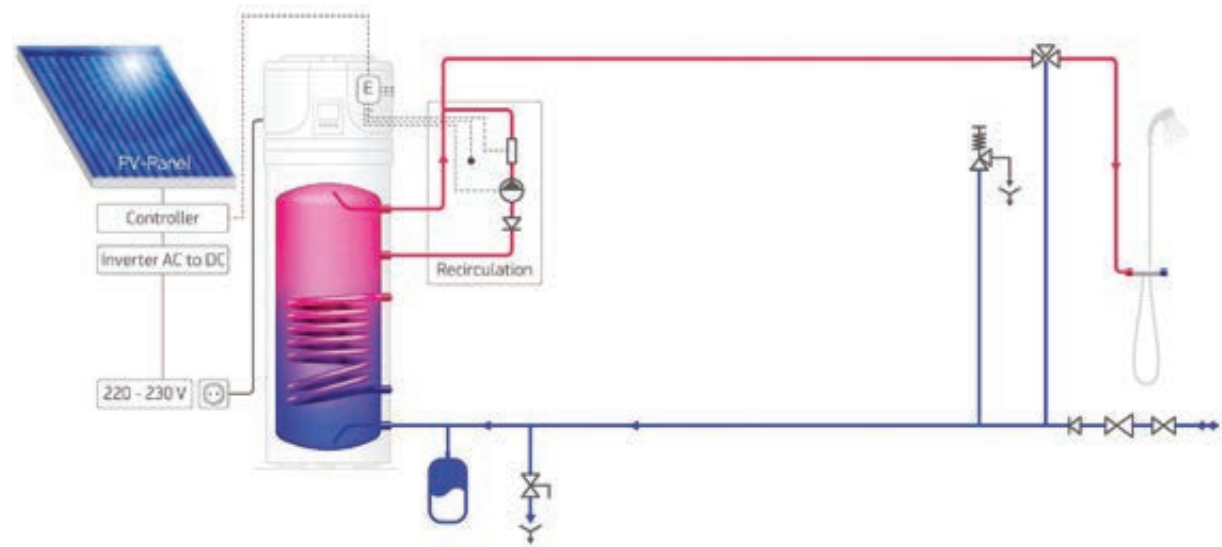


MODEL		HPWH 2.1 200 U 02 S HPWH 2.1 260 U 02 S	HPWH 2.1 200 U 02 HPWH 2.1 260 U 02
CW	cold water inlet	G 1"	G 1"
HW	hot water outlet	G 1"	G 1"
IS	heat exchanger inlet	G 1"	-
OS	heat exchanger outlet	G 1"	-
TS	thermo pocket	G ½"	-
R	recirculation	G ¾"	G ¾"
EE	opening for electric element	G 1½"	G 1½"
D	condensate drainage	G ¾"	G ¾"
MA	Magnesium anode	G 1¼"	G 1¼"
ThS	Safety thermostat	G 1"	G 1"

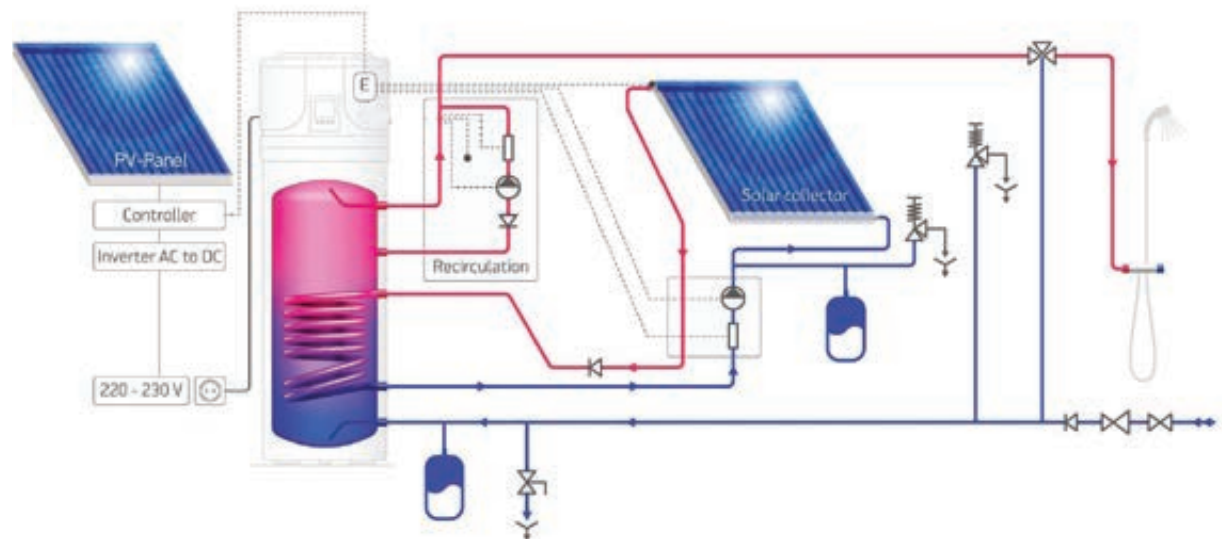
Dimensions ±5 mm		HPWH 2.1 200 U 02 S	HPWH 2.1 200 U 02	HPWH 2.1 260 U 02 S	HPWH 2.1 260 U 02
h	mm	1720	1720	2010	2010
a	mm	994	994	1285	1285
b	mm	724	724	834	834
d	mm	995	995	1285	1285
f	mm	803	803	1064	1064
j	mm	681	-	781	-
k	mm	60	60	60	60
n	mm	681	681	766	766
u	mm	1153	1153	1440	1440
w	mm	58	58	58	58
M	mm	260	260	260	260
Ø DF	mm	160	160	160	160
R	mm	1785	1785	2055	2055
Ø D	mm	630	630	630	630

Thread designations according to EN ISO 228-1!

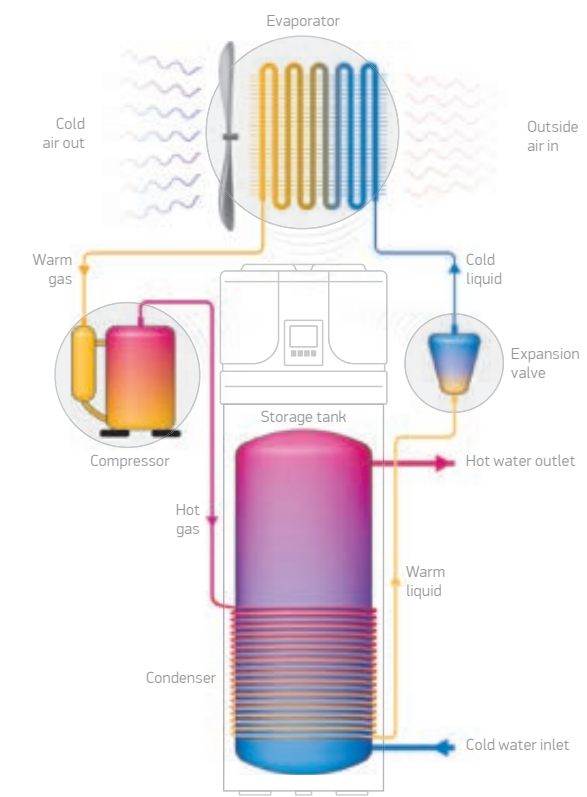
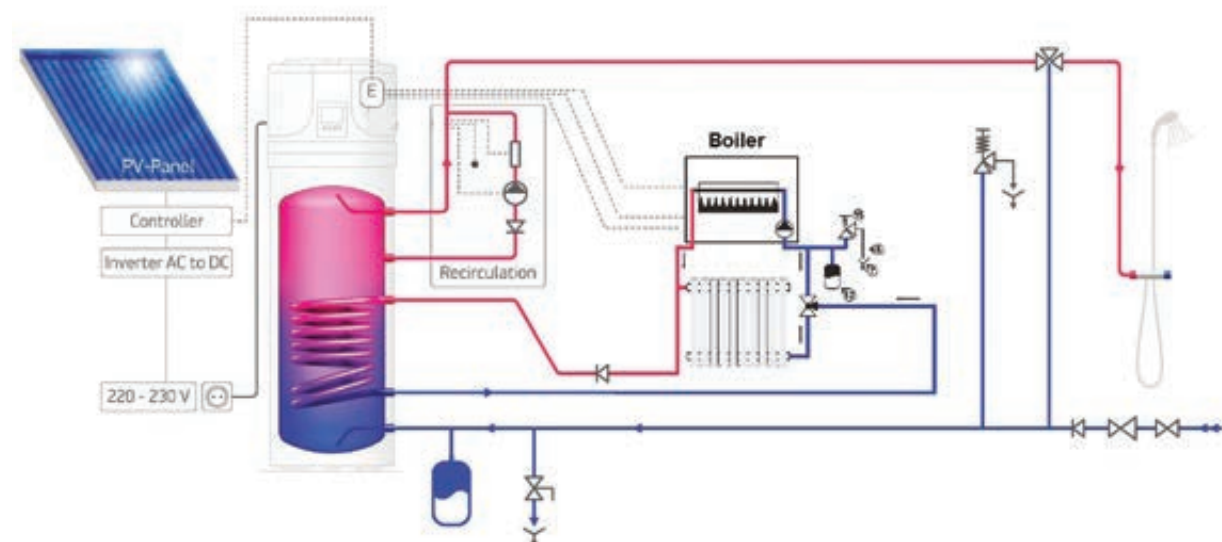
CONNECTION TO PV PANEL



CONNECTION TO PV PANEL AND TO A SOLAR COLLECTOR

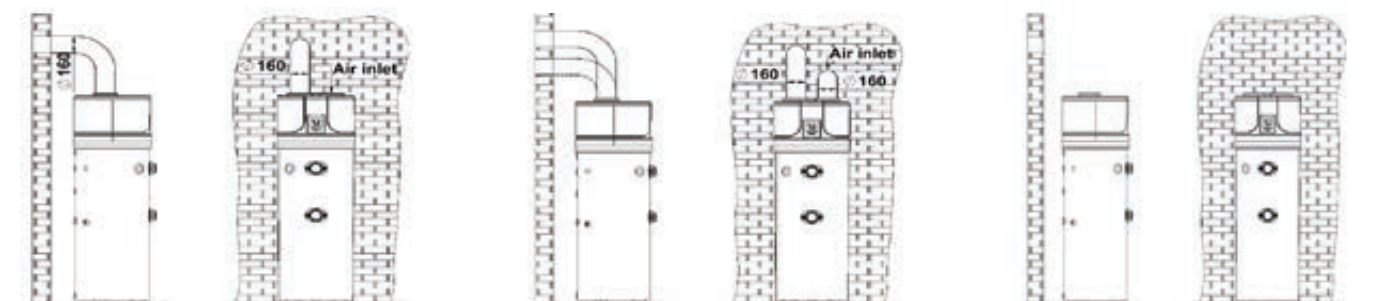


CONNECTION TO A PV PANEL AND A BOILER



AIR-DUCT SYSTEM INSTALLATION

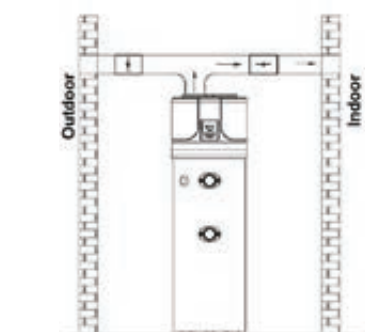
Applications for cooling/ drying premises



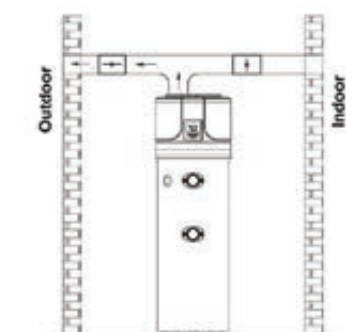
AIR OUTLET DUCT ONLY

DUAL DUCT CONNECTION

FOR DRYING PREMISES



INSTALLATION IN SUMMER



INSTALLATION IN WINTER

DOMESTIC HOT WATER TANKS WITH HIGH OUTPUT HEAT EXCHANGERS

ADVANTAGES



DOMESTIC HOT WATER TANKS FOR HEAT PUMP SYSTEMS

Floor-standing indirectly heated water tanks for domestic hot water production, with double heat exchangers with an internal collector and large surface, suitable for use with low-temperature heat carriers. This product family is specially designed for heat pump systems.

The range includes models:

- from 200 L to 1000 L with two double high output heat exchangers (lower solar heat exchanger)
- from 160 L to 1000 L with a double high output heat exchanger
- from 300 L to 500 L with high output heat exchangers

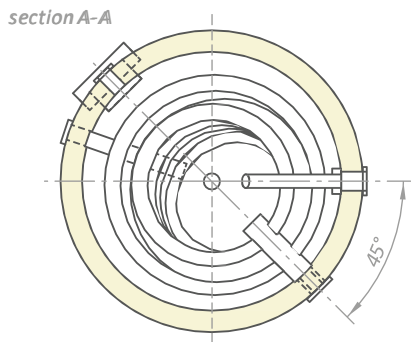
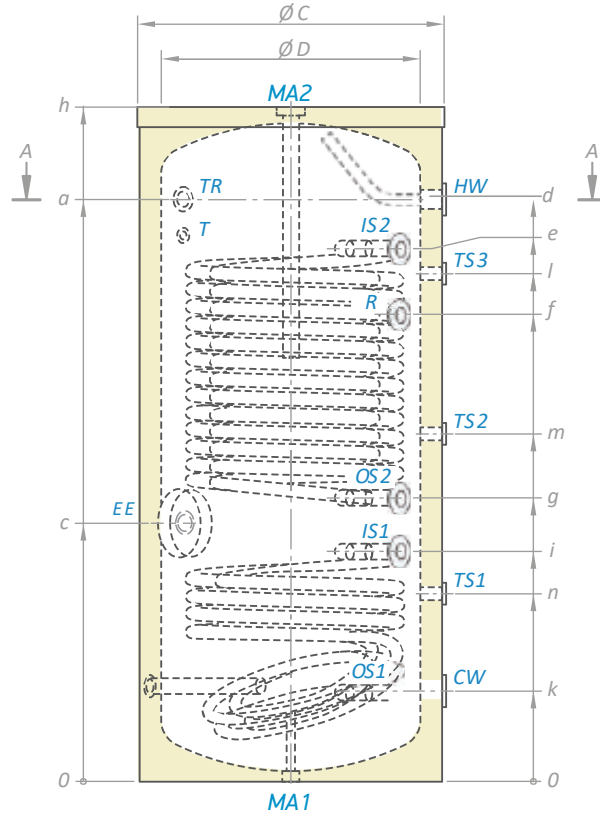
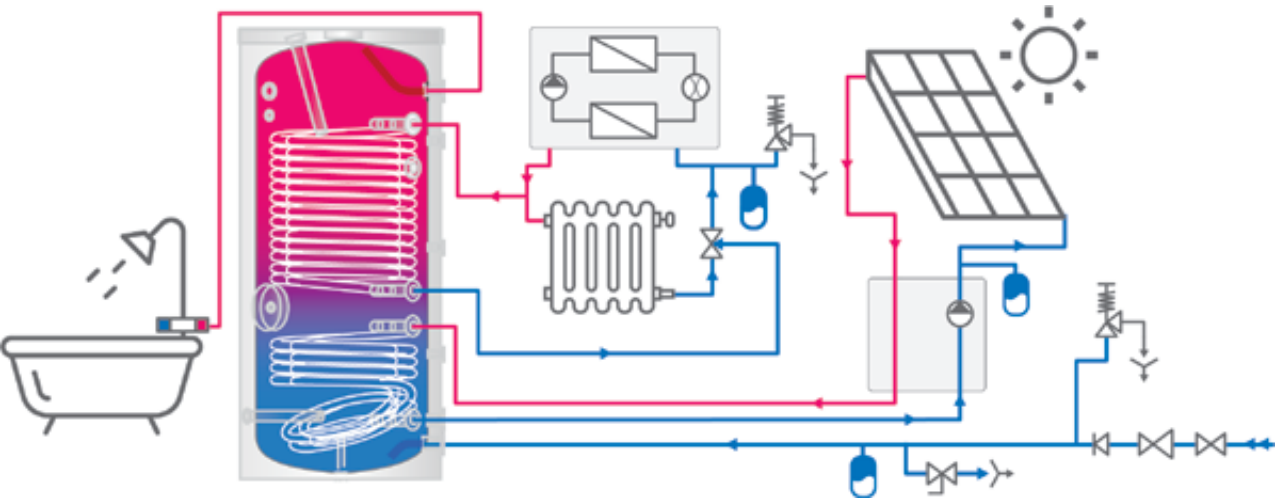
Advantages:

- Heat exchangers with large surfaces for connection to heat pump or condensing gas boiler systems.
- Suitable to operation with low temperature heat carriers.
- Decreased hydraulic resistance (pressure drop) of the heat exchanger with a larger diameter of the inlet and outlet on 1.1/2".
- High quality enamel coating CrystalTech PRO and two magnesium anodes, which protect whole inner surface of the tank for a longer product life.
- The models up to 500 L are insulated with a high efficiency PU insulation (models in energy class C and B) and have a service opening for easy maintenance.
- Highly-efficient INSU PRO insulation upon request for the models 800 L and 1000 L.

MODELS		EV 2x4 2x9 S2 200 60 HP	EV 2x5 2x12 S2 300 65 HP	EV 2x6 2x13 S2 500 75 HP
Art.number	Nº	305254	305255	305249
Capacity	L	185	269	459
Net weight	kg	90	122	183
Insulation (PU)	mm	50(rigid)	50(rigid)	50(rigid)
Heat exchanger surface S1	m²	0.65	1	1.55
Heat exchanger capacity S1	L	4	6	9.3
Heat exchanger surface S2	m²	1.6	2.45	3.45
Heat exchanger capacity S2	L	9.5	14.7	21
Heat losses ΔT45K	W	1.4	1.6	2.3
Energy efficiency class		B	B	C
Maximum operational temperature	°C	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110
Rated pressure	bar	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1) Coil 80º	kW/(l/min)	17.9/(41.7)	24.6/(50)	36.5/(58.3)
V40 - hot water delivered with a temperature of at least 40 °C (S1) Coil 80º	L	326	459	729.4
Reheat time 10-60°C flow rate at primary side (S1) Coil 80º	min/(l/min)	35.71/(41.7)	35.2/(50)	41.5/(58.3)
Heat exchanger reheat performance P at flow rate of primary side (S2)Coil 80º	kW/(l/min)	38.1/(41.7)	53.8/(50)	74.6/(58.3)
V40 -hot water delivered with a temperature of at least 40 °C (S2)Coil 80º	L	203	292.1	450.3
Reheat time 10-60°C flow rate at primary side (S2)Coil 80º	min/(l/min)	10.35/(41.7)	5.7/(50)	12.7/(58.3)
Heat exchanger reheat performance P at flow rate of primary side (S1) Coil 55º	kW/(l/min)	6.6/(50)	7.8/(50)	11.8/(50)
V40 - hot water delivered with a temperature of at least 40 °C (S1) Coil 55º	L	253	375	601
Reheat time 10-50°C flow rate at primary side (S1) Coil 55º	min/(l/min)	73.58/(50)	89.31/(50)	98.56/(50)
Heat exchanger reheat performance P at flow rate of primary side (S2) Coil 55º	kW/(l/min)	14.6/(50)	18.9/(50)	26.1/(50)
V40 - hot water delivered with a temperature of at least 40 °C (S2) Coil 55º	L	158	237	395
Reheat time 10-50°C flow rate at primary side (S2) Coil 55º	min/(l/min)	20.18/(50)	24.03/(50)	28.98/(50)
Coil pressure drop at flow rate m³/h (S1)	mBar/(l/min)	27.7/(41.7)	30.7/(50)	71.4/(58.3)
Coil pressure drop at flow rate m³/h (S2)	mBar/(l/min)	42.1/(41.7)	62.8/(50)	105.2/(58.3)

** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 1"
HW	hot water outlet	G 1"
IS1	heat exchanger inlet	G 1 ½"
IS2	heat exchanger inlet	G 1 ½"
OS1	heat exchanger outlet	G 1 ½"
OS2	heat exchanger outlet	G 1 ½"
R	recirculation	G ¾"
T	thermometer	Ø14x1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
EE	opening for electric element	G 1 ½"
MA	magnesium anode	G ¾"
MA2	magnesium anode 2	G 1 ½"

TS3 is not available in 200 L model

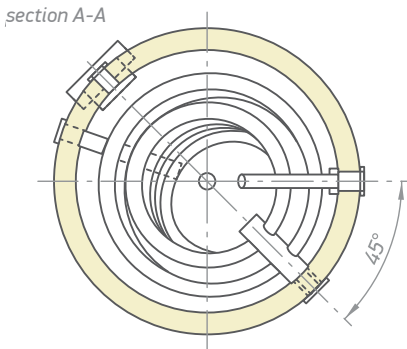
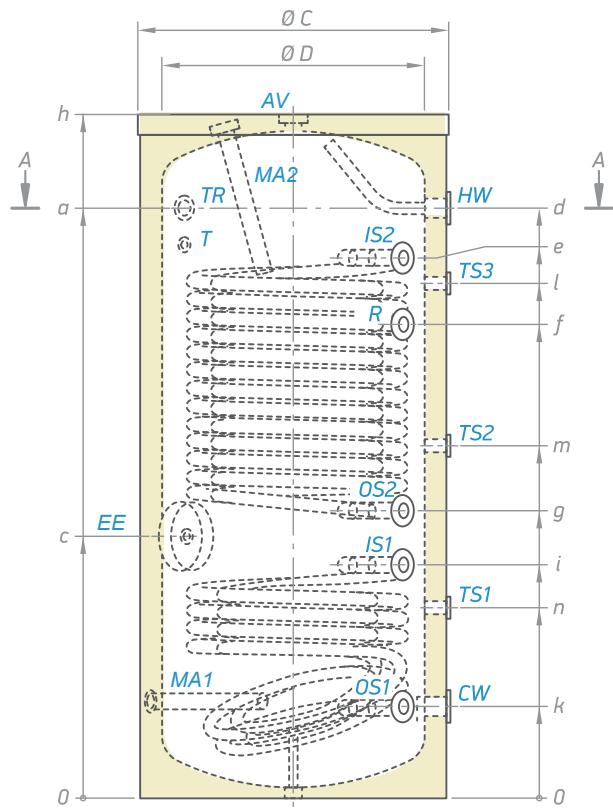
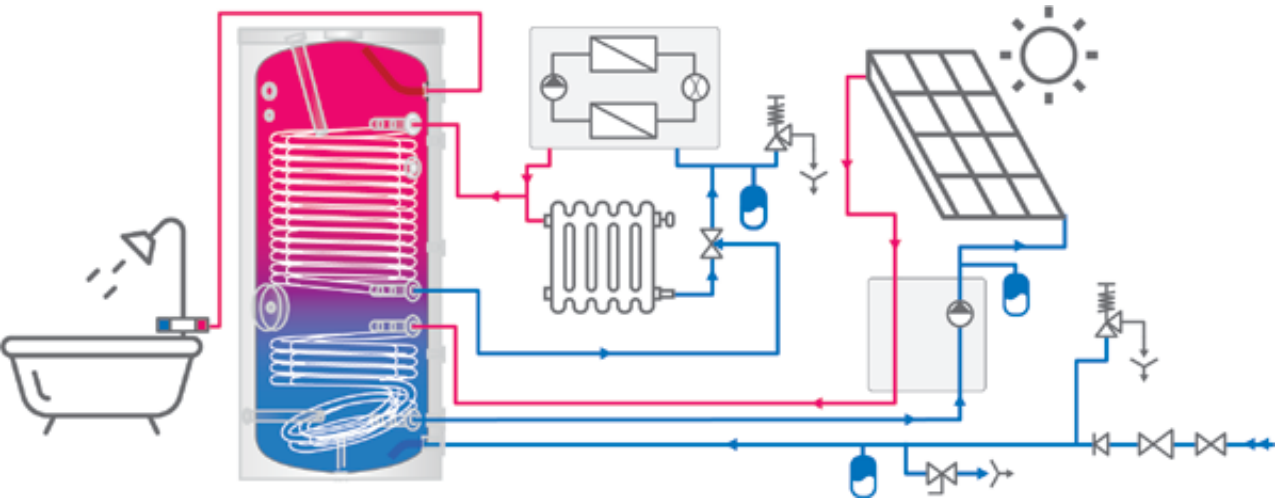
Thread designations according to EN ISO 228-1!

Dimensions ±5mm		EV 2x4 2x9 S2 200 60 HP	EV 2x5 2x12 S2 300 65 HP	EV 2x6 2x13 S2 500 75 HP
h	mm	1197	1420	1677
a	mm	996	1184	1447
c	mm	483	533	642
d	mm	996	1184	1447
e	mm	966	1150	1325
f	mm	817	1055	1162
g	mm	519	574	706
i	mm	434	485	572
j	mm	202	205	225
k	mm	202	205	225
l	mm	817	1055	1262
m	mm		726	864
n	mm	360	398	467
R	mm	1345	1560	1823
ØC	mm	600	650	750
ØD	mm	500	550	650

MODELS		EV 2x9 2x14 S2 800 95 HP DN18	EV 2x9 2x17 S2 1000 101 HP DN18
Art.number	Nº	305391	305392
Capacity	L	741	921
Net weight	kg	307	324
Insulation	mm	100(soft)	100(soft)
Heat exchanger surface S1		2.5	2.5
Heat exchanger capacity S1	L	14.3	14.4
Heat exchanger surface S2		3.8	4.6
Heat exchanger capacity S2	L	14.9	27.5
Heat losses ΔT_{45K}	W	3.1	3.4
Energy efficiency class		C	C
Maximum operational temperature	°C	95	95
Maximum operational temperature of heat exchanger	°C	110	110
Rated pressure		8	8
Rated pressure of the heat exchanger	bar	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1) Coil 80°	kW/(l/min)	49.4/(100)	63.2/(100)
V40 -hot water delivered with a temperature of at least 40 °C (S1) Coil 80°	L	1330.7	1354.7
Reheat time 10-60°C flow rate at primary side (S1) Coil 80°	min/(l/min)	51.05/(100)	49.81/(100)
Heat exchanger reheat performance P at flow rate of primary side (S2) Coil 80°	kW/(l/min)	75.6/(100)	104/(100)
V40 -hot water delivered with a temperature of at least 40 °C (S2) Coil 80°	L	703.6	784.6
Reheat time 10-60°C flow rate at primary side (S2) Coil 80°	min/(l/min)	17.98/(100)	17.7/(100)
Heat exchanger reheat performance P at flow rate of primary side (S1) Coil 55°	kW/(l/min)	16.2/(50)	17.0/(50)
V40 -hot water delivered with a temperature of at least 40 °C (S1) Coil 55°	L	1043.5	1078
Reheat time 10-50°C flow rate at primary side (S1) Coil 55°	min/(l/min)	122.93/(50)	140.86/(50)
Heat exchanger reheat performance P at flow rate of primary side (S2) Coil 55°	kW/(l/min)	25.1/(50)	28.0/(50)
V40 -hot water delivered with a temperature of at least 40 °C (S2) Coil 55°	L	526.4	670
Reheat time 10-50°C flow rate at primary side (S2) Coil 55°	min/(l/min)	43.51/(50)	53.26/(50)
Coil Pressure drop at flow rate m³/h (S1)	mBar/(l/min)	638.5/(100)	349.4/(100)
Coil Pressure drop at flow rate m³/h (S2)	mBar/(l/min)	660/(100)	440.9/(100)

** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)
Highly-efficient INSU PRO insulation upon request for the models 800 L and 1000 L.

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 1½"
HW	hot water outlet	G 1½"
IS1	heat exchanger inlet	G 1½"
IS2	heat exchanger inlet	G 1½"
OS1	heat exchanger outlet	G 1½"
OS2	heat exchanger outlet	G 1½"
R	recirculation	G ¾"
T	thermometer	Ø14x1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
AV	air ventilation	G ¾"
EE	opening for electric element	G 1½"
MA1	magnesium anode 1	G1¼"
MA2	magnesium anode 2	G 1¼"

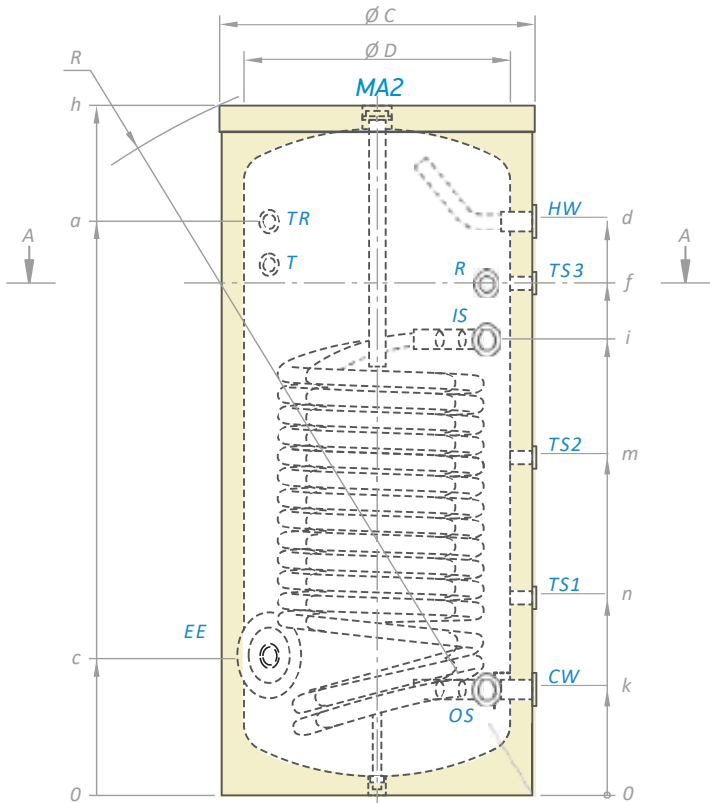
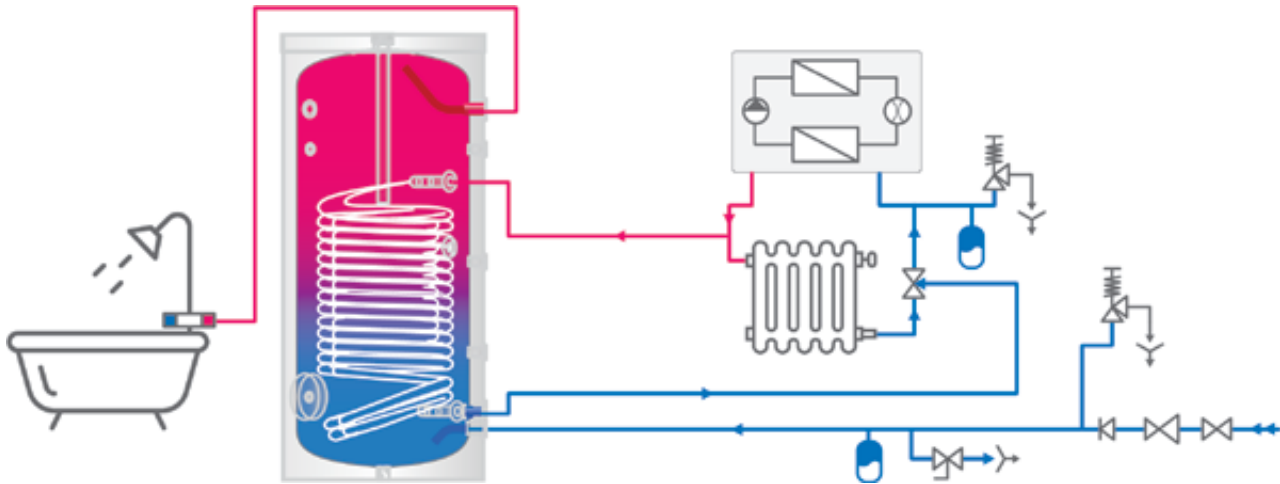
Thread designations according to EN ISO 228-1/

Dimensions ±5mm		EV 2x9 2x14 S2 800 95 HP DN18	EV 2x9 2x17 S2 1000 101 HP DN18
h	mm	1974	2012
a	mm	1591	1625
c	mm	810	734
d	mm	1779	1846
e	mm	1572	1625
f	mm	1272	1374
g	mm	910	834
i	mm	710	637
j	mm	410	337
k	mm	82	81
l	mm	1435	1374
m	mm	1005	919
n	mm	575	470
R	mm	2124	2270
ØC	mm	990	1050
ØD	mm	790	850

MODELS		EV 2x10 S 160 60 HP	EV 2x12 S 200 60 HP	EV 2x15 S 200 60 HP	EV 2x15 S 300 65 HP	EV 2x19 S 300 65 HP	EV 2x19S 400 75 HP	EV 2x23 S 500 75 HP
Art.number	Nº	304703	305251	305250	305257	305256	305248	305231
Capacity	L	149	186	183	271	267	369	451
Net weight	kg	65	89	102	106	130	162	183
Insulation (PU)	mm	50(rigid)	50(rigid)	50(rigid)	50(rigid)	50(rigid)	50(rigid)	50(rigid)
Heat exchanger surface S1	m²	1.7	2.1	2.56	3	3.84	5.05	6
Heat exchanger capacity S1	L	11	12.5	15.6	18.3	23	31	33
Heat losses ΔT45K	W	1.2	1.4	1.4	1.6	1.6	2.2	2.3
Energy efficiency class		B	B	B	B	B	C	C
Maximum operational temperature	°C	95	95	95	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110	110	110	110
Rated pressure	bar	8	8	8	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6	6	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1) Coil 80º	kW/(l/min)	36.5/(33.3)	46.3/(41.7)	55.2/(41.7)	63.8/(50.0)	73.0/(50.0)	101.7/(58.3)	117.2/(58.3)
V40 -hot water delivered with a temperature of at least 40 °C (S1) Coil 80º	L	205	327	299	450.5	357.4	567	662.3
Reheat time 10-60°C flow rate at primary side (S1) Coil 80º	min/(l/min)	12.5/(33.3)	13.5/(41.7)	10.7/(41.7)	13.2/(50)	10.88/(50)	10.8/(58.3)	11.7/(58.3)
Heat exchanger reheat performance P at flow rate of primary side (S1) Coil 55º	kW/(l/min)	14.9/(50.0)	18.8/(50.0)	23.0/(50.0)	25.2/(50.0)	27.0/(50.0)	37.1/(50.0)	35.7/(50.0)
V40 -hot water delivered with a temperature of at least 40 °C (S1) Coil 55º	L	165	262	240	383	340	468	500
Reheat time 10-50°C flow rate at primary side (S1) Coil 55º	min/(l/min)	24.45/(50)	25.81/(50)	20.25/(50)	27.68/(50)	23.73/(50)	23.18/(50)	30.0/(50)
Coil Pressure drop at flow rate m³/h (S1)	kW/(l/min)	30/(33.3)	53.3/(41.7)	56.6/(41.7)	71.9/(41.7)	94.9/(50.0)	171.5/(58.3)	173.2/(58.3)

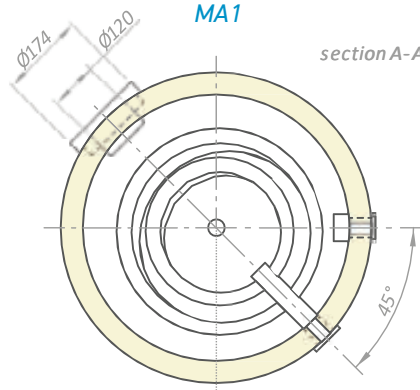
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



Model		EV 2x10 S 160 60 HP	for OTHER MODELS
CW	cold water inlet	G 1"	G 1"
HW	hot water outlet	G 1"	G 1"
IS1	heat exchanger inlet	G 1"	G 1 ½"
OS1	heat exchanger outlet	G 1"	G 1 ½"
R	recirculation	G ¾"	G ¾"
T	thermometer	Ø14x1.5	Ø14x1.5
TR	opening for thermoregulator	G ½"	G ½"
TS1	thermo sensor pocket level 1	G ½"	G ½"
TS2	thermo sensor pocket level 2	G ½"	G ½"
TS3	thermo sensor pocket level 3	G ½"	G ½"
EE	opening for electric element	G 1 ½"	G 1 ½"
MA1	magnesium anode 1	G ¾"	G ¾"
MA2	magnesium anode 2	G1½"	G1½"

TS3 is not available in 200 L model
Thread designations according to EN ISO 228-1!

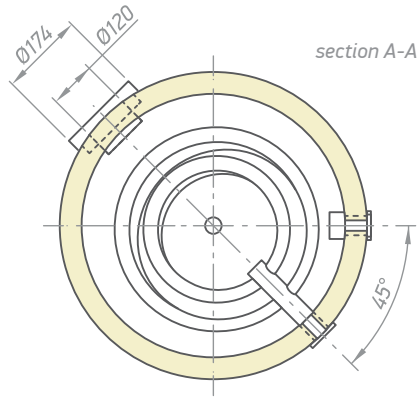
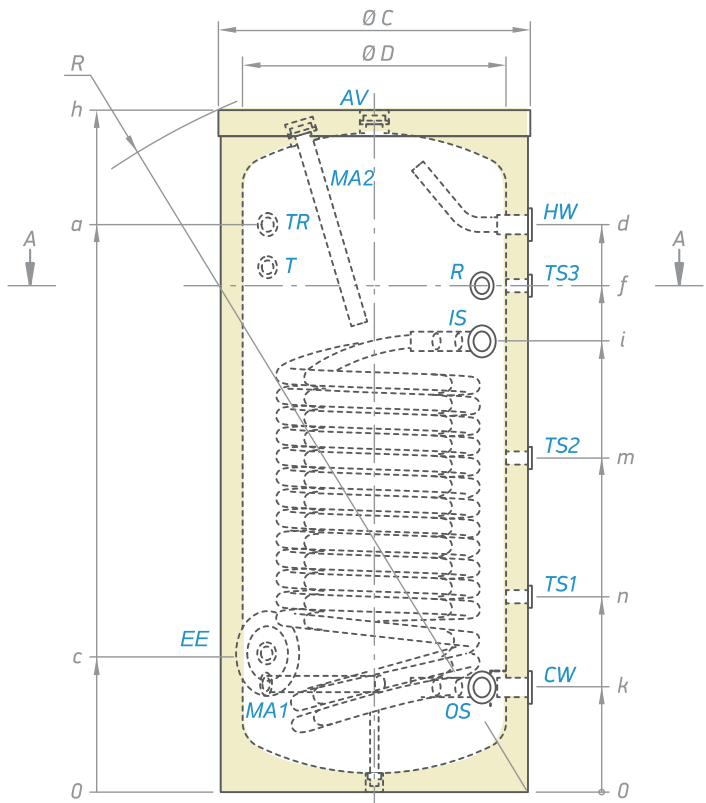
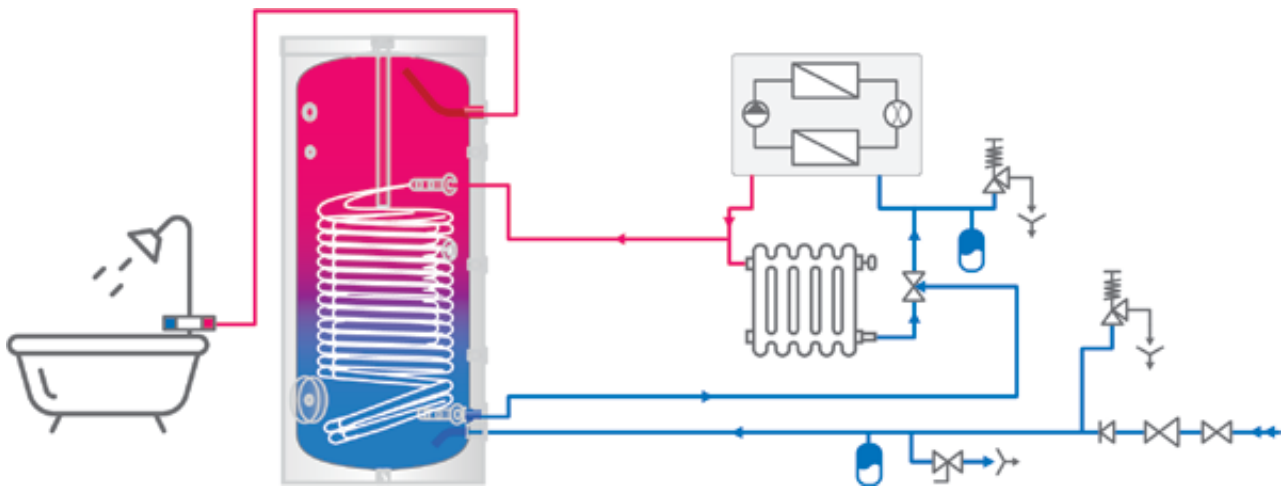


Dimensions ±5mm		EV 2x10 S 160 60 HP	EV 2x12 S 200 60 HP	EV 2x15 S 200 60 HP	EV 2x15 S 300 65 HP	EV 2x19 S 300 65 HP	EV 2x19 S 400 75 HP	EV 2x23 S 500 75 HP
h	mm	1007	1202	1197	1420	1420	1400	1670
a	mm	791	995	996	1184	1184	1168	1447
c	mm	271	264	264	278	278	272	405
d	mm	791	996	996	1184	1184	1171	1447
f	mm	712	792	794	1055	953	1059	1162
i	mm	602	897	919	937	1120	1118	1378
j	mm	207	202	202	205	206	225	225
k	mm	207	202	202	205	206	225	225
l	mm	699	897	897	1055	1055	1059	1162
m	mm	499	633	633	691	691	778	864
n	mm	289	360	360	398	398	448	467
R	mm	1169	1345	1345	1560	1560	1590	1823
ØC	mm	600	600	600	650	650	750	750
ØD	mm	500	500	500	550	550	650	650

MODEL		EV 2x14 S 800 95 HP DN18	EV 2x17 S 1000 101 HP DN18
Art.number	Nº	305407	305415
Capacity	L	770	937
Net weight	kg	254	297
Insulation	mm	100(soft)	100(soft)
Heat exchanger surface S1	m²	3.8	4.5
Heat exchanger capacity S1	L	17.2	27.1
Heat losses ΔT45K	W	3.1	3.4
Energy efficiency class		C	C
Maximum operational temperature	°C	95	95
Maximum operational temperature of heat exchanger	°C	110	110
Rated pressure	bar	8	8
Rated pressure of the heat exchanger	bar	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1) Coil 80°	kW/(l/min)	85.4/(100)	104/(100)
V40 - hot water delivered with a temperature of at least 40 °C (S1) Coil 80°	L	1283	1435
Reheat time 10-60°C flow rate at primary side (S1)Coil 80°	min/(l/min)	29.78/(100)	28.36/(100)
Heat exchanger reheat performance P at flow rate of primary side (S1)Coil55°	kW/(l/min)	26/(50)	30.3/(50)
V40 - hot water delivered with a temperature of at least 40 °C (S1)Coil55°	L	1033	1128
Reheat time 10-50°C flow rate at primary side (S1)Coil55°	min/(l/min)	78.95/(50)	74.7/(50)
Coil Pressure drop at flow rate m³/h (S1)	mBar/(l/min)	666.2/(100)	675.8/(100)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	304.4	433.6
V40 - hot water delivered with a temperature of at least 40°C (S2)	L	154.3	219.4
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	36.5/(20.8)	35.9/(25.0)
Reheat time 10-60°C flow rate at primary side (S2)	min / (L/min)	22.8/(20.8)	23.85/(25.0)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	21.3/(20.8)	73.7/(25.0)
Coil Pressure drop at flow rate m³/h (S2)	mbar / (L/min)	14.6/(20.8)	54.0/(25.0)

** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)
Highly-efficient INSU PRO insulation upon request for the models 800 L and 1000 L.

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 1½"
HW	hot water outlet	G 1½"
IS1	heat exchanger inlet	G 1½"
OS1	heat exchanger outlet	G 1½"
R	recirculation	G ¾"
T	thermometer	Ø14x1.5
TR	opening for thermoregulator	G ½"
TS1	thermo pocket level 1	G ½"
TS2	thermo pocket level 2	G ½"
TS3	thermo pocket level 3	G ½"
AV	air ventilation	G ¾"
EE	opening for electric element	G 1½"
MA1	magnesium anode 1	G 1¼"
MA2	magnesium anode 2	G 1¼"

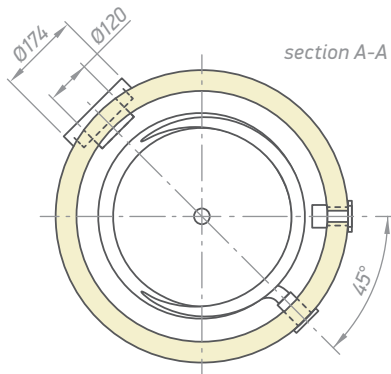
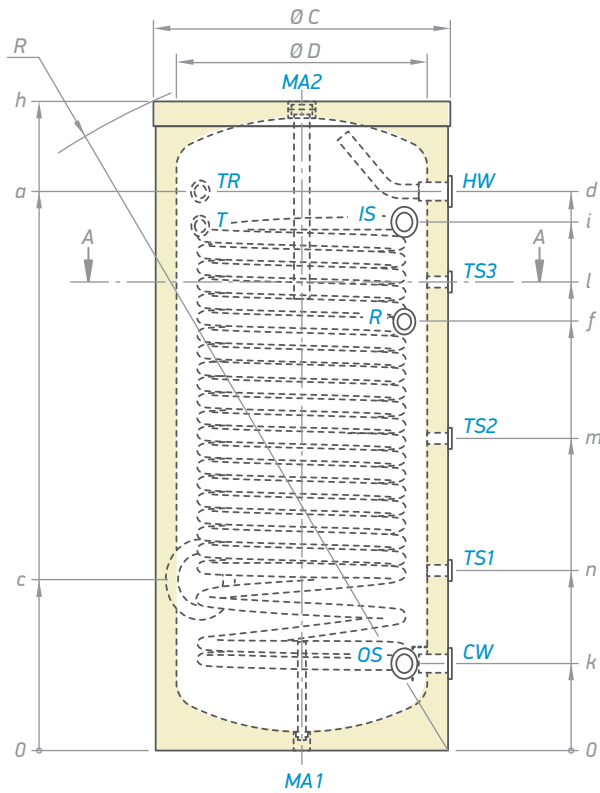
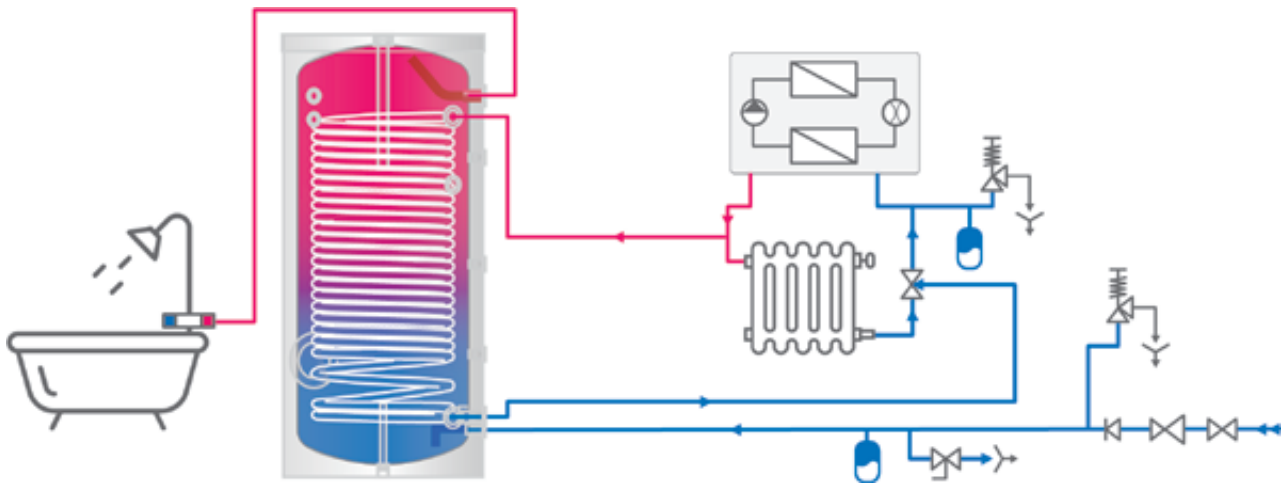
Thread designations according to EN ISO 228-1/

Dimensions ±5mm		EV 2x14 S 800 95 HP DN18	EV 2x17 S 1000 101 HP DN18
h	mm	1974	2012
a	mm	1591	1625
c	mm	360	374
d	mm	1779	1845
f	mm	1272	1347
i	mm	971	1115
j	mm	309	324
k	mm	81	81
m	mm	1005	919
n	mm	575	470
R	mm	2124	2270
ØC	mm	990	1050
ØD	mm	790	850

MODEL		EV 17S 300 65	EV 17S 400 75	EV 23S 500 75
Art. number	Nº	301397	301398	301400
Capacity	L	279	387	470
Net weight	kg	102	128	160
Insulation (rigid PU)	mm	50	50	50
Heat exchanger surface S1	m²	2.1	2.55	3.4
Heat exchanger capacity S1	L	12.6	15.5	23.2
Heat losses ΔT 45K	W	68	91	95
Energy efficiency class		B	C	C
Maximum operational temperature	°C	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110
Rated pressure	bar	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	36.3 / (25.0)	48.4 / (29.2)	60.6 / (29.2)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	382.2	464.0	580.8
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	25.6 / (29.2)	19.6 / (29.2)	18.8 / (29.2)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	67.9 / (29.2)	44.6 / (29.2)	160 / (29.2)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 1"
HW	hot water outlet	G 1"
IS	heat exchanger inlet	G 1"
OS	heat exchanger outlet	G 1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1-2-3	thermo pocket level 1-2-3	G ½"
MA1	magnesium anode 1	G ¾"
MA2	magnesium anode 2	G1½"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm EV 17S 300 65 EV 17S 400 75 EV 23S 500 75

h	mm	1420	1400	1670
c	mm	371	411	405
d	mm	1184	1168	1447
f	mm	953	960	1161
i	mm	1101	1120	1378
k	mm	206	225	225
l	mm	1055	1059	1161
m	mm	691	778	680
n	mm	398	448	467
R	mm	1560	1590	1833
Ø C	mm	650	750	750
Ø D	mm	550	650	650

DOMESTIC HOT WATER TANKS WITH TWO, ONE AND WITHOUT HEAT EXCHANGERS

ADVANTAGES



Model with two inlets
and two outlets

DOMESTIC HOT WATER TANKS WITH HIGH EFFICIENCY

A wide range of floor-standing indirectly heated water tanks for domestic hot water production, suitable for installation in single and multi-family residential buildings as well as for commercial application.

The range includes models from 160 L to 2000 L in energy efficiency class A, B or C:

- with two heat exchangers
- with one heat exchanger
- without heat exchanger
- with two inlets and two outlets

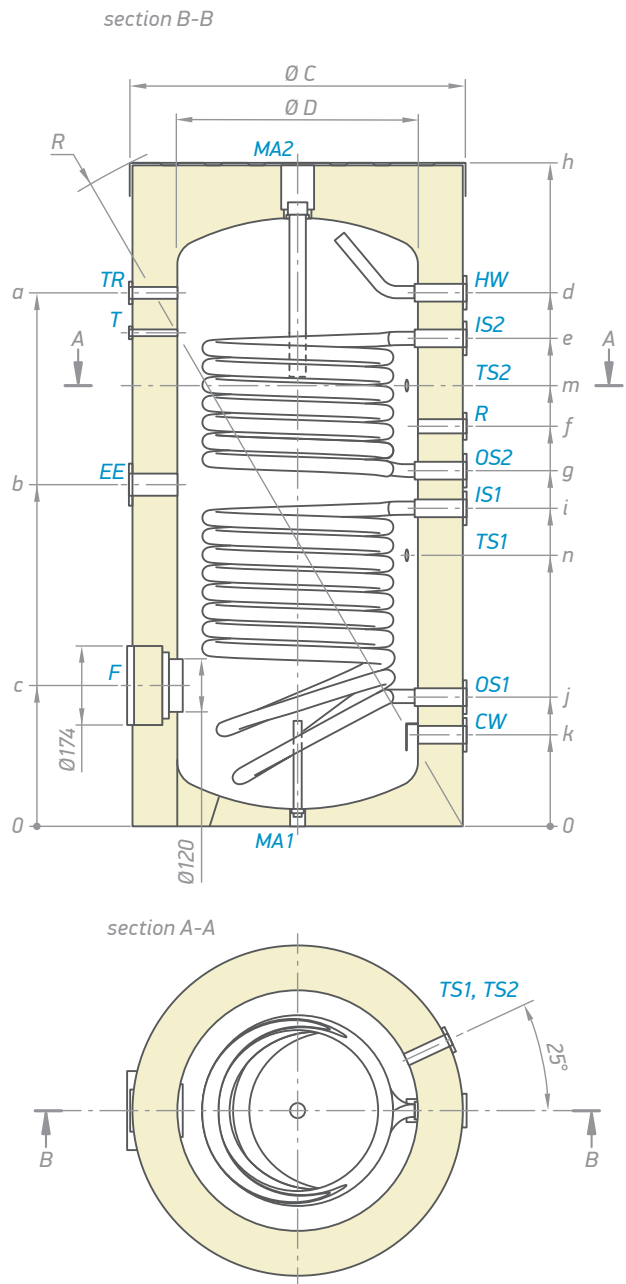
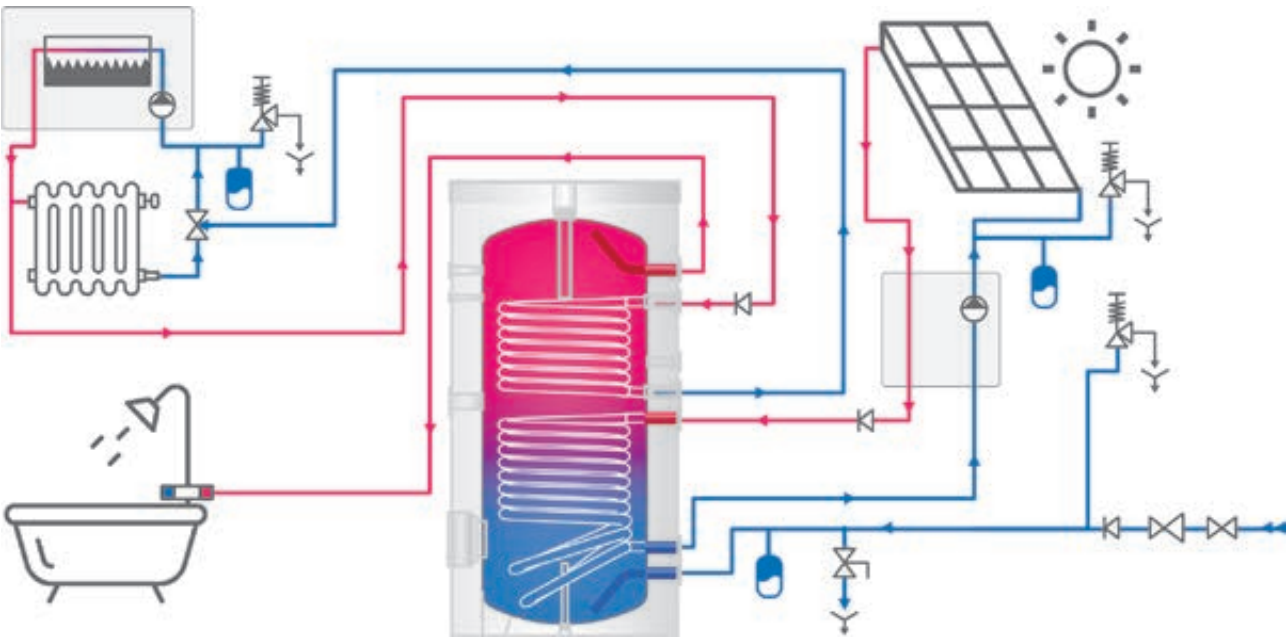
Advantages:

- Durable enamel coating of the tank for long life.
- Highly-efficient CFC free PU foam insulation in models up to 500 L. INSU PRO insulation upon request models up to 2000 L.
- Two magnesium anode protectors at the upper and the lower area.
- Thermoindicator.
- Service opening for easy inspection and maintenance.
- Heating element installation option.
- Thermoregulator installation pocket.
- Thermoprobe installation pocket.

MODEL		EV 7/5 S2 200 65	EV 10/7 S2 300 75
Art. number	Nº	302653	302654
Capacity	L	192	279
Net weight	kg	68	95
Insulation (rigid PU)	mm	75	100
Heat exchanger surface S1	m²	0.75	1.21
Heat exchanger surface S2	m²	0.54	0.85
Heat exchanger capacity S1	L	4.6	7.4
Heat exchanger capacity S2	L	3.3	5.2
Heat losses ΔT 45K	W	41	46
Energy efficiency class		A	A
Maximum operational temperature	°C	95	95
Maximum operational temperature of heat exchanger	°C	110	110
Rated pressure	bar	8	8
Rated pressure of the heat exchanger	bar	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	16.4 / (20.8)	24.2 / (25.0)
Heat exchanger reheat performance P at flow rate of primary side (S2)	kW / (L/min)	13.1 / (20.8)	16.8 / (25.0)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	304.4	433.6
V40 - hot water delivered with a temperature of at least 40°C (S2)	L	154.3	219.4
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	36.5 / (20.8)	35.9 / (25.0)
Reheat time 10-60°C flow rate at primary side (S2)	min / (L/min)	22.8 / (20.8)	23.85 / (25.0)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	21.3 / (20.8)	73.7 / (25.0)
Coil Pressure drop at flow rate m³/h (S2)	mbar / (L/min)	14.6 / (20.8)	54.0 / (25.0)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 1"
HW	hot water outlet	G 1"
IS1	heat exchanger inlet	G 1"
IS2	heat exchanger inlet	G 1"
OS1	heat exchanger outlet	G 1"
OS2	heat exchanger outlet	G 1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
EE	opening for electric element	G 1½"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G1½"

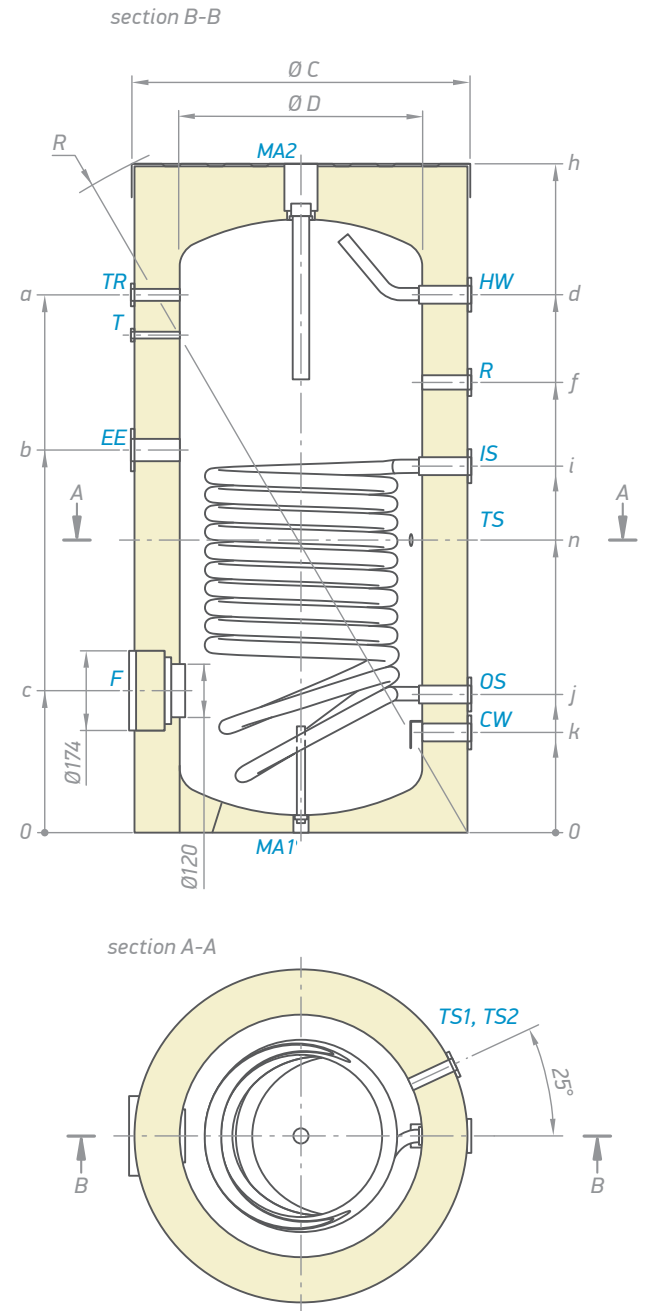
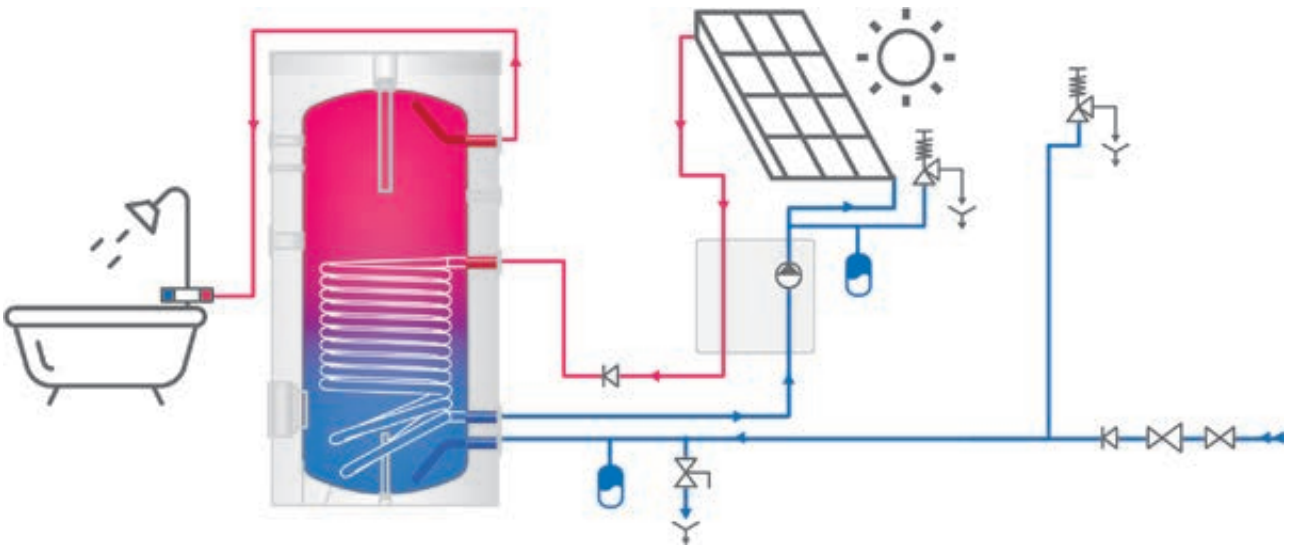
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 7/5 S2 200 65	EV 10/7 S2 300 75
h	mm	1274	1495
a	mm	993	1207
b	mm	628	760
c	mm	314	314
d	mm	993	1207
e	mm	886	1104
f	mm	746	903
g	mm	671	803
i	mm	585	718
j	mm	284	288
k	mm	199	203
m	mm	815	996
n	mm	478	610
R	mm	1345	1563
Ø C	mm	650	750
Ø D	mm	500	550

MODEL		EV 9S 200 65	EV 12S 300 75
Art. number	Nº	302733	302731
Capacity	L	195	283
Net weight	kg	68	95
Insulation (rigid PU)	mm	75	100
Heat exchanger surface S1	m²	0.96	1.45
Heat exchanger capacity S1	L	5.8	8.8
Heat losses ΔT 45K	W	41	46
Energy efficiency class		A	A
Maximum operational temperature	°C	95	95
Maximum operational temperature of heat exchanger	°C	110	110
Rated pressure	bar	8	8
Rated pressure of the heat exchanger	bar	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	24.0 / (20.8)	28.9 / (25.0)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	345.8	435.3
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	29.0 / (20.8)	30.35 / (25.0)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	31.0 / (20.8)	87.5 / (25.0)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
**10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

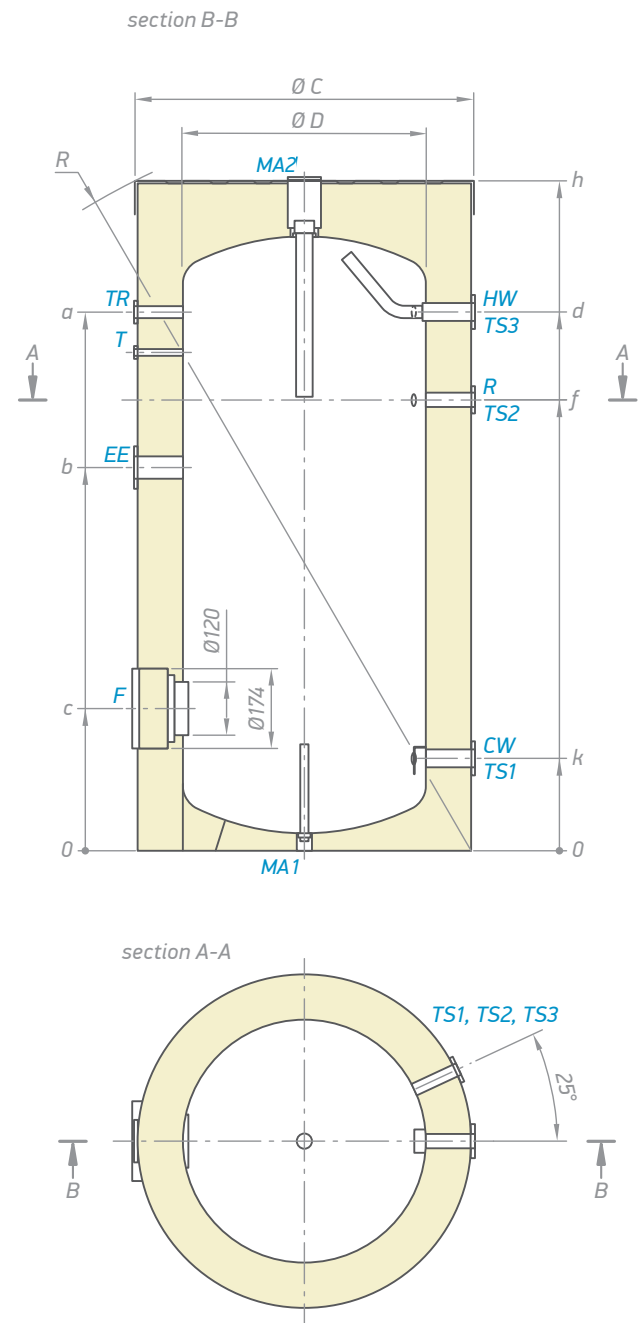
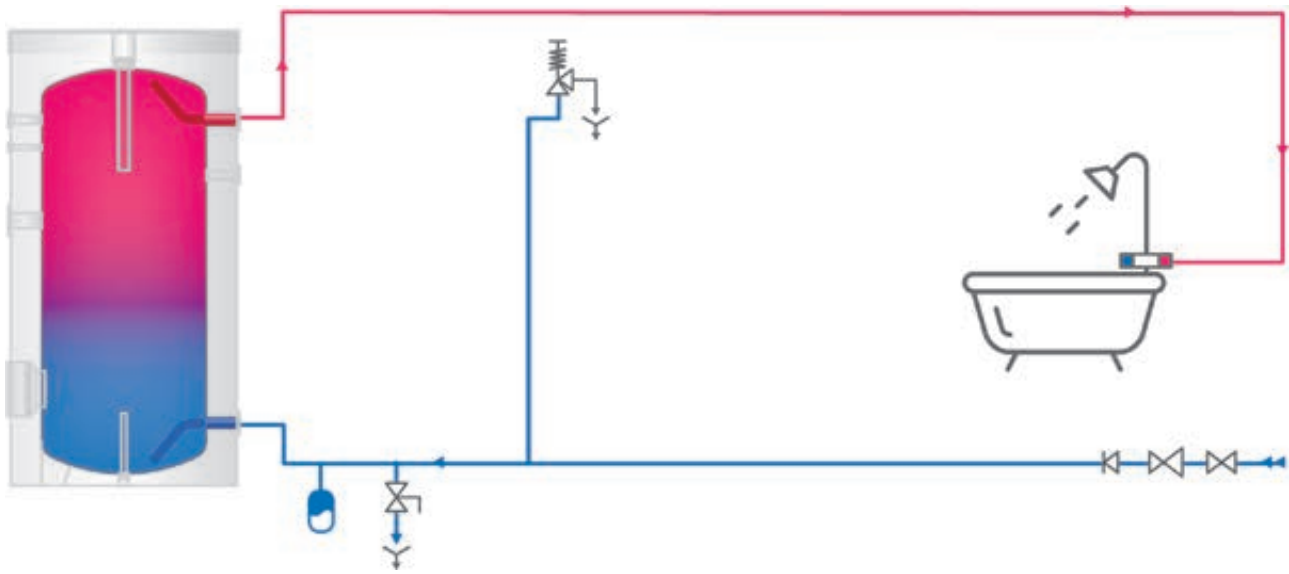
CW	cold water inlet	G 1"
HW	hot water outlet	G 1"
IS1	heat exchanger inlet	G 1"
OS1	heat exchanger outlet	G 1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS	thermo sensor pocket level 1	G ½"
EE	opening for electric element	G 1½"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G 1½"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 9S 200 65	EV 12S 300 75
h	mm	1274	1495
a	mm	993	1207
b	mm	714	846
c	mm	314	314
d	mm	771	1207
f	mm	771	1010
i	mm	671	804
j	mm	284	288
k	mm	199	203
n	mm	564	653
R	mm	1345	1563
Ø C	mm	650	750
Ø D	mm	500	550

MODEL		EV 200 65	EV 300 75
Art. number	Nº	302732	302730
Capacity	L	202	294
Net weight	kg	48	69
Insulation (rigid PU)	mm	75	100
Heat losses ΔT 45K	W	41	46
Energy efficiency class		A	A
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 1"
HW	hot water outlet	G 1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
EE	opening for electric element	G 1½"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G 1½"

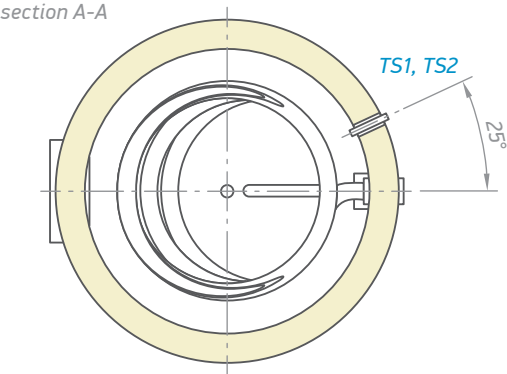
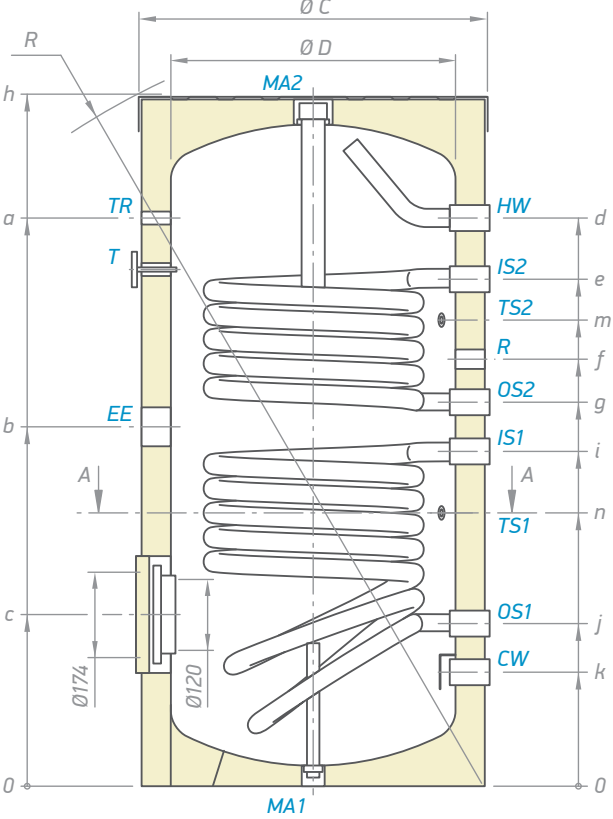
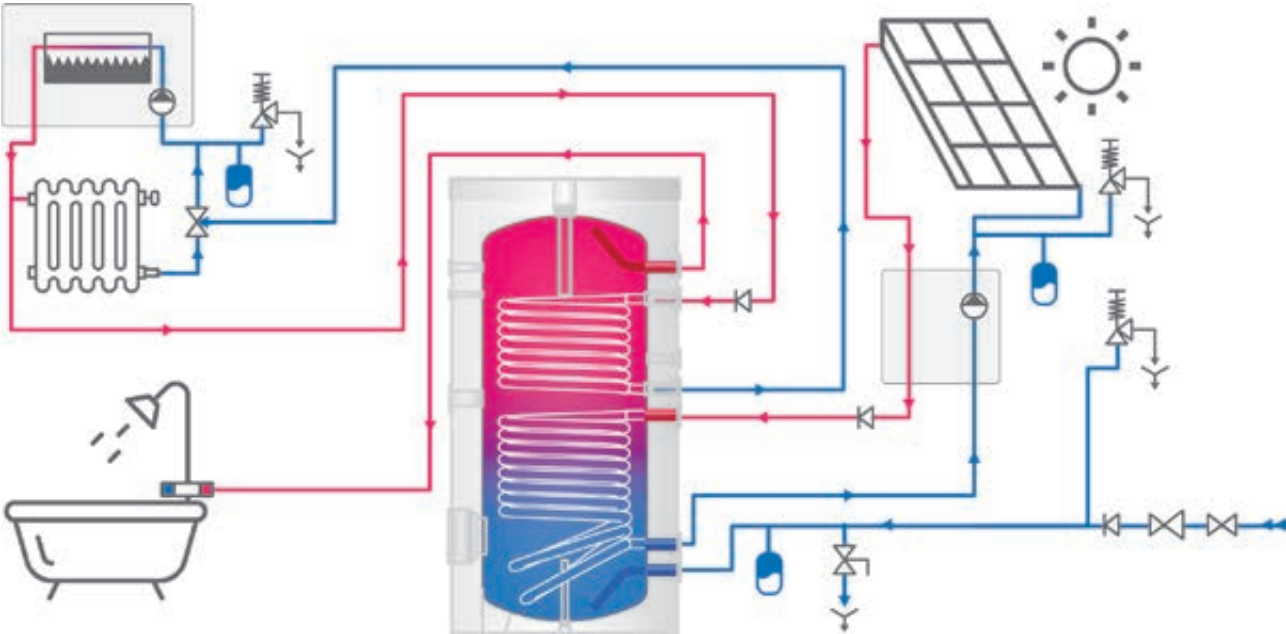
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 200 65	EV 300 75
h	mm	1247	1495
a	mm	993	1207
b	mm	714	846
c	mm	314	314
d	mm	993	1207
f	mm	771	1010
k	mm	199	203
R	mm	1345	1563
Ø C	mm	650	750
Ø D	mm	500	550

MODEL		EV 6/4 S2 160 60	EV 7/5 S2 200 60	EV 10/7 S2 300 65	EV 11/5 S2 400 75	EV 15/7 S2 500 75
Art. number	Nº	302165	301407	301391	301393	301396
Capacity	L	154	192	279	388	472
Net weight	kg	66	70	100	146	158
Insulation (rigid PU)	mm	50	50	50	50	50
Heat exchanger surface S1	m²	0.61	0.75	1.21	1.65	2.25
Heat exchanger surface S2	m²	0.43	0.54	0.85	0.76	1.06
Heat exchanger capacity S1	L	3.6	4.6	7.4	10	13.7
Heat exchanger capacity S2	L	2.6	3.3	5.2	4.6	6.4
Heat losses ΔT 45K	W	51	59	68	91	95
Energy efficiency class		B	B	B	C	C
Maximum operational temperature	°C	95	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110	110
Rated pressure	bar	8	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	13.5 / (16.6)	16.4 / (20.8)	24.2 / (25.0)	33.9 / (29.2)	43.6 / (29.2)
Heat exchanger reheat performance P at flow rate of primary side (S2)	kW / (L/min)	9.9 / (16.6)	13.1 / (20.8)	16.8 / (25.0)	17.7 / (29.2)	24.9 / (29.2)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	243.2	304.4	433.6	583.3	677.6
V40 - hot water delivered with a temperature of at least 40°C (S2)	L	112.5	154.3	219.4	258.2	294.3
Reheat time 10-60°C rate at primary side (S1)	min / (L/min)	37.0 / (16.6)	36.5 / (20.8)	35.9 / (25.0)	34.6 / (29.2)	33.2 / (29.2)
Reheat time 10-60°C rate at primary side (S2)	min / (L/min)	23.3 / (16.6)	22.8 / (20.8)	23.9 / (25.0)	39.3 / (29.2)	25.3 / (29.2)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	12.0 / (16.6)	21.3 / (20.8)	73.7 / (25.0)	105.7 / (29.2)	109.4 / (29.2)
Coil Pressure drop at flow rate m³/h (S2)	mbar / (L/min)	7.9 / (16.6)	14.6 / (20.8)	54.0 / (25.0)	65.1 / (29.2)	49.8 / (29.2)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 1"
HW	hot water outlet	G 1"
IS1	heat exchanger inlet	G 1"
IS2	heat exchanger inlet	G 1"
OS1	heat exchanger outlet	G 1"
OS2	heat exchanger outlet	G 1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
EE	opening for electric element	G 1½"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G1½"

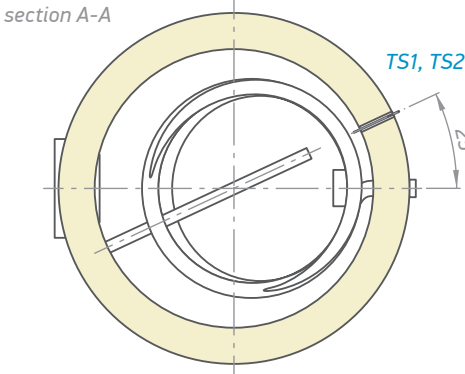
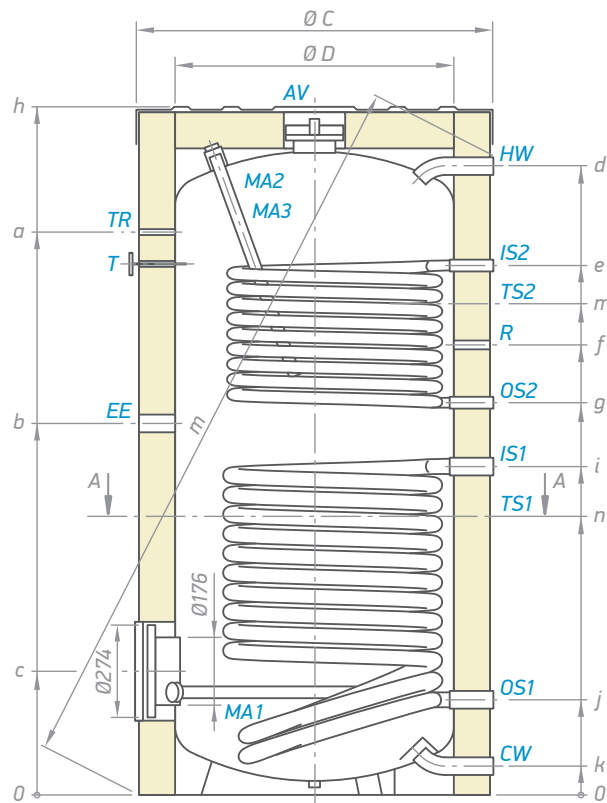
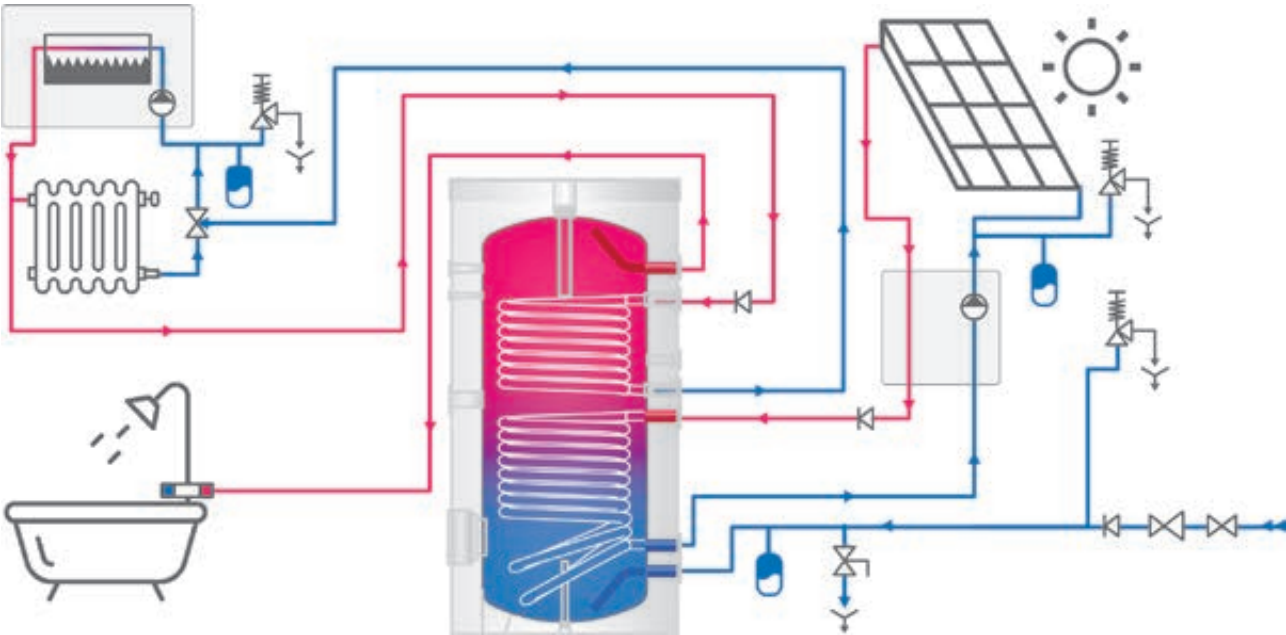
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 6/4 S2 160 60	EV 7/5 S2 200 60	EV 10/7 S2 300 65	EV 11/5 S2 400 75	EV 15/7 S2 500 75
h	mm	1007	1200	1420	1407	1674
a	mm	785	993	1207	1156	1448
b	mm	519	628	760	813	986
c	mm	279	314	314	331	324
d	mm	788	993	1207	1156	1448
e	mm	741	886	1104	1073	1330
f	mm	649	746	903	943	1165
g	mm	569	671	803	858	1029
i	mm	475	585	718	775	944
j	mm	204	284	288	302	299
k	mm	204	199	203	220	214
m	mm	649	815	996	998	1265
n	mm	349	478	610	617	1265
R	mm	649	1345	1563	1596	1838
Ø C	mm	600	600	650	750	750
Ø D	mm	500	500	550	650	650

MODEL		EV 12/9S2 800 95 DN18	EV 13/7 S2 1000 101 DN18	EV 12/8 S2 1500 120 DN18	EV 15/9 S2 2000 130 DN18
Art. number	Nº	305416	305428	305417	305431
Capacity	L	757	932	1414	1822
Net weight	kg	252	279	408	486
Insulation	mm	100	100	100	100
Heat exchanger surface S1	m²	2.89	3.45	3.3	4.5
Heat exchanger surface S2	m²	1.54	1.31	2.3	2.75
Heat exchanger capacity S1	L	26.2	31.3	30.4	41.6
Heat exchanger capacity S2	L	9.4	7.9	20.5	25.2
Heat losses ΔT 45K	W	128	142	151	183
Energy efficiency class		C	C	C	C
Maximum operational temperature	°C	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110
Rated pressure	bar	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	61.2 / (100)	77.2 / (100)	94.5 / (100)	113.1 / (100)
Heat exchanger reheat performance P at flow rate of primary side (S2)	kW / (L/min)	35.3 / (100)	36.5 / (100)	64.8 / (100)	77.1 / (100)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	1095.2	1403	1933.8	2785
V40 - hot water delivered with a temperature of at least 40°C (S2)	L	4471	604	714.1	940
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	48.9 / (50.0)	50.2 / (50.0)	45.3 / (100)	57.3 / (100)
Reheat time 10-60°C flow rate at primary side (S2)	min / (L/min)	31.5 / (50.0)	40.5 / (50.0)	29.7 / (100)	34.6 / (100)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	69.0 / (50.0)	82.6 / (50.0)	222.1 / (100)	294.8 / (100)
Coil Pressure drop at flow rate (S2)	mbar / (L/min)	119.6 / (50.0)	174.3 / (50.0)	172.5 / (100)	189.5 / (100)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)
Highly-efficient INSU PRO insulation upon request for the models from 800 L to 2000 L.

INSTALLATION AND CONNECTION SCHEME



MODEL		EV 12/9S2 800 95 DN18	EV 12/8 S2 1500 120 DN18
CW	cold water inlet	G 1½"B	G 2"B
HW	hot water outlet	G 1½"B	G 2"B
IS1	heat exchanger inlet	G 1½"B	G 1½"B
IS2	heat exchanger inlet	G 1"B	G 1½"B
OS1	heat exchanger outlet	G 1½"B	G 1½"B
OS2	heat exchanger outlet	G 1"B	G 1½"B
R	recirculation	G ¾"	G 1½"
T	thermometer	Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"	G ½"
TS1	thermo sensor pocket level 1	G ½"	G ½"
TS2	thermo sensor pocket level 2	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"
AV	opening for air ventilation	G ¾"	G ¾"
MA1	magnesium anode 1	G1¼"	G 1¼"
MA2	magnesium anode 2	G 1¼"	G1¼"
MA3	magnesium anode 3	-	G1¼"

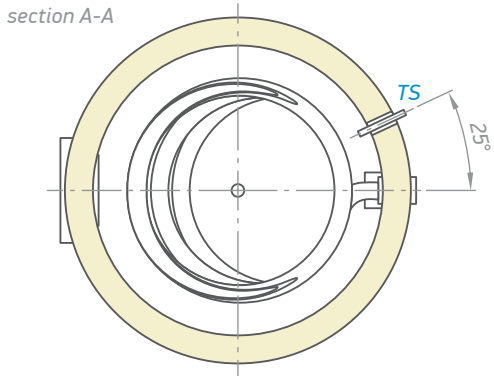
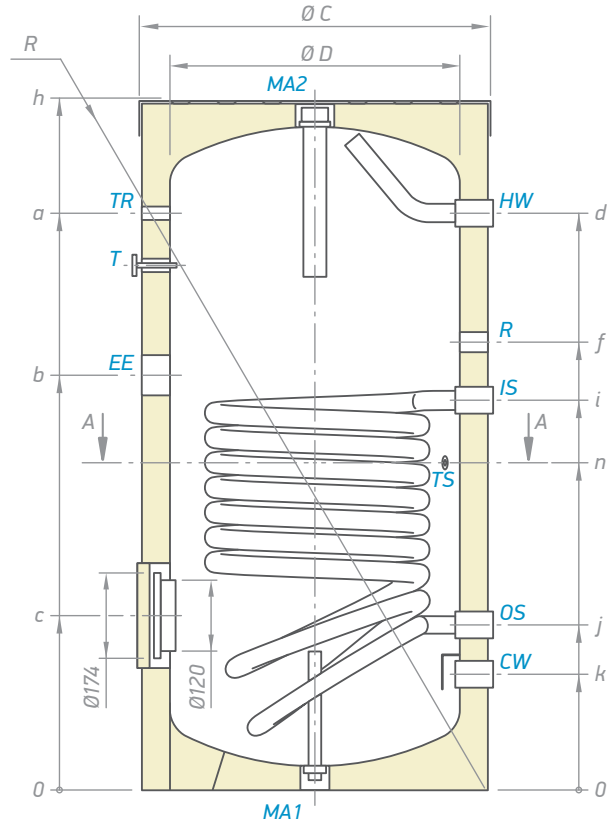
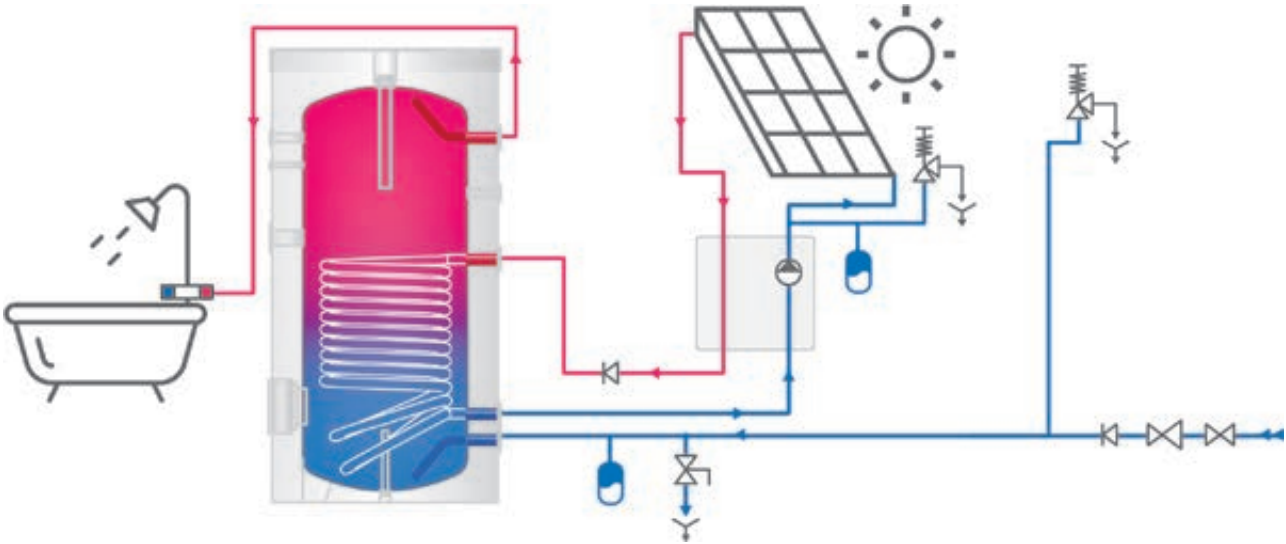
Thread designations according to EN ISO 228-1/

Dimensions ±5 mm		EV 12/9S2 800 95 DN18	EV 13/7 S2 1000 101 DN18	EV 12/8 S2 1500 120 DN18	EV 15/9 S2 2000 130 DN18
h	mm	1947	2012	2193	2399
a	mm	1592	1475	1768	1927
b	mm	1051	1132	1168	1287
c	mm	351	354	468	497
d	mm	1778	1847	2061	2263
e	mm	1492	1475	1691	1875
f	mm	1273	1274	1378	1560
g	mm	1105	1174	1251	1380
i	mm	929	987	1081	1244
j	mm	269	272	421	420
k	mm	82.5	81.5	90	90
m	mm	1363	1374	1329	1537
n	mm	756	817	579	587
R	mm	2014	2100	2361	2565
Ø C	mm	990	1050	1200	1300
Ø D	mm	790	850	1000	1100

MODEL		EV 9S 160 60	EV 9S 200 60	EV 12S 300 65	EV 11S 400 75	EV 15S 500 75
Art. number	Nº	301408	301409	301394	301392	301395
Capacity	L	155	195	283	394	480
Net weight	kg	54	65	92	137	145
Insulation (ridig PU)	mm	50	50	50	50	50
Heat exchanger surface S1	m²	0.96	0.96	1.45	1.65	2.25
Heat exchanger capacity S1	L	5.8	5.8	8.8	10	13.7
Heat losses ΔT 45K	W	51	52	68	91	95
Energy efficiency class		B	B	B	C	C
Maximum operational temperature	°C	95	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110	110
Rated pressure	bar	8	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	20.3 / (16.6)	24.0 / (20.8)	28.9 / (25.0)	34.5 / (29.2)	44.5 / (29.2)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	203	345.8	435.3	596.7	684.6
Reheat time 10-60°C rate at primary side (S1)	min / (L/min)	20.8 / (16.6)	29.0 / (20.8)	30.4 / (25.0)	34.6 / (29.2)	32.9 / (29.2)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	14.5 / (16.6)	31.0 / (20.8)	87.5 / (25.0)	114.4 / (29.2)	103.2 / (29.2)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS		
CW	cold water inlet	G 1"
HW	hot water outlet	G 1"
IS1	heat exchanger inlet	G 1"
OS1	heat exchanger outlet	G 1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS	thermo sensor pocket level 1	G ½"
EE	opening for electric element	G 1½"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G 1½"

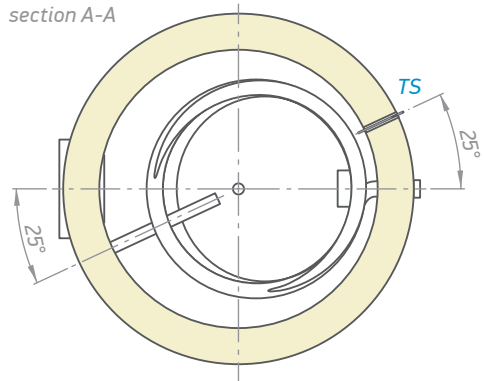
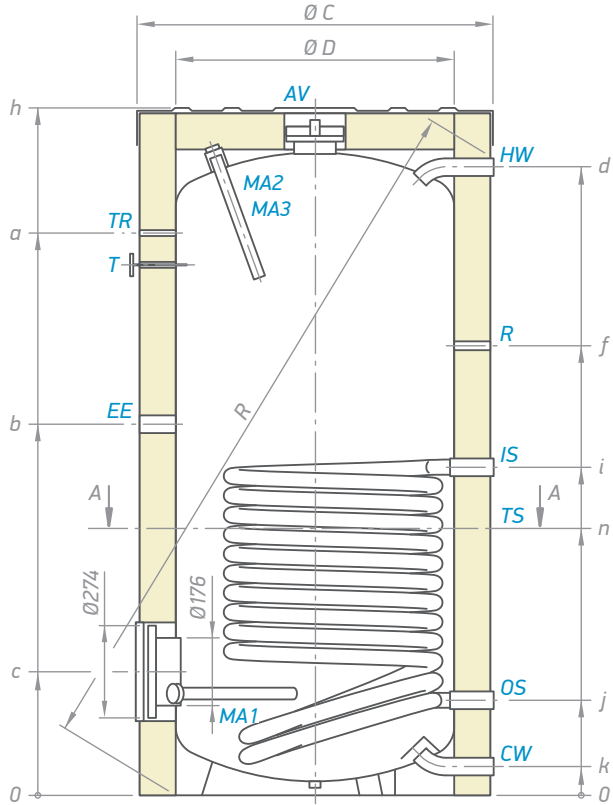
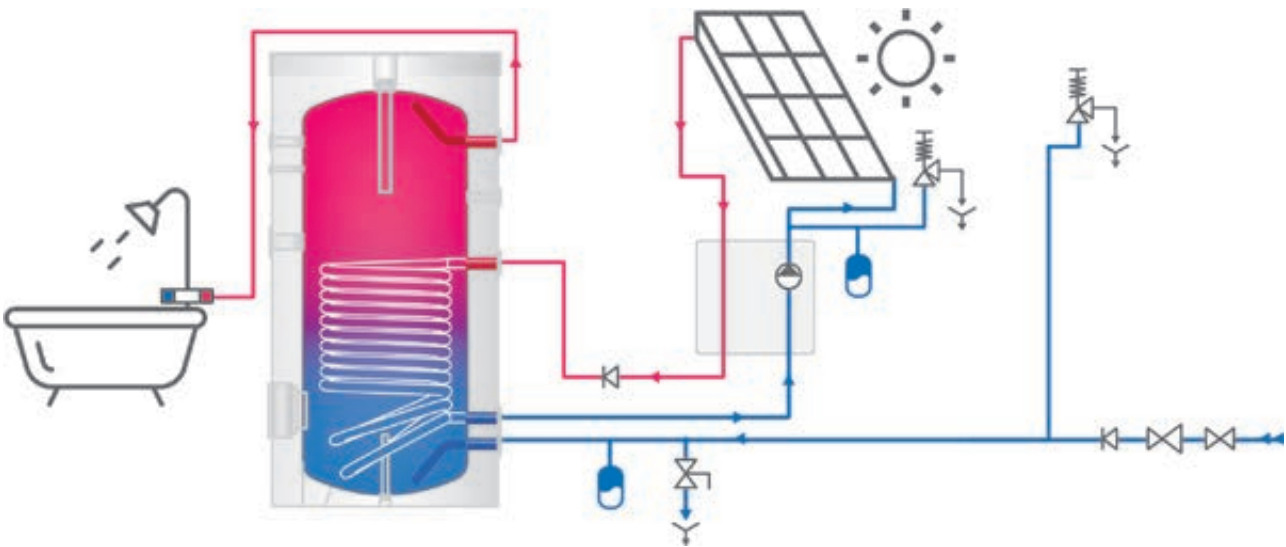
Thread designations according to EN ISO 228-1/

Dimensions ±5 mm		EV 9S 160 60	EV 9S 200 60	EV 12S 300 65	EV 11S 400 75	EV 15S 500 75
h	mm	1007	1200	1420	1407	1674
a	mm	785	993	1207	1156	1448
b	mm	-	714	846	813	986
c	mm	314	314	314	331	324
d	mm	785	993	1207	1156	1448
f	mm	602	771	1010	945	1199
i	mm	671	671	804	775	944
j	mm	284	284	288	302	299
k	mm	200	199	203	220	214
n	mm	360	564	653	617	750
R	mm	1169	1345	1563	1596	1838
Ø C	mm	600	600	650	750	750
Ø D	mm	500	500	550	650	650

MODEL		EV 12 800 95 DN18	EV 13S 1000 101 DN18	EV 12S 1500 120 DN18	EV 15S 2000 130 DN18
Art. number	Nº	305426	305429	305427	305435
Capacity	L	768	932	1439	1853
Net weight	kg	221	233	371	442
Insulation	mm	100	100	100	100
Heat exchanger surface S1	m²	2.89	3.45	3.3	4.5
Heat exchanger capacity S1	L	26.2	31.3	30.4	41.6
Heat losses ΔT 45K	W	129	142	158	183
Energy efficiency class	C	C	C	C	C
Maximum operational temperature	°C	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110
Rated pressure	bar	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	6.1 / (100)	7.2 / (100)	94.5 / (100)	113.1 / (100)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	1095.2	1403	1933.8	2785
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	48.85 / (50)	50.15 / (50)	45.3 / (100)	57.26 / (100)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	69.0 / (50)	82.6 / (50)	222.14 / (100)	294.8 / (100)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)
Highly-efficient INSU PRO insulation upon request for the models from 800 L to 2000 L.

INSTALLATION AND CONNECTION SCHEME



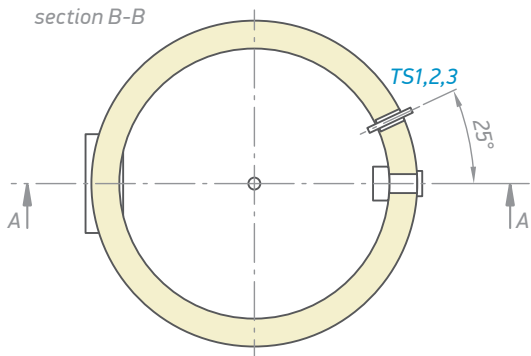
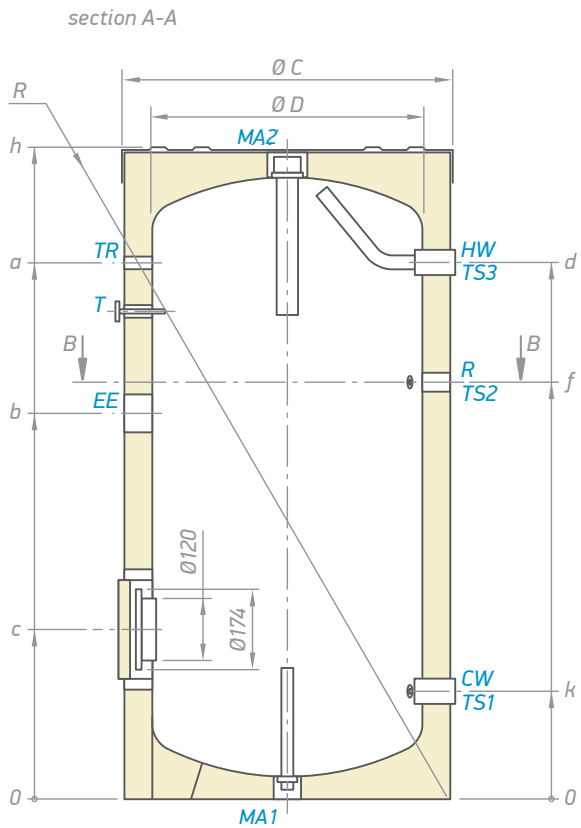
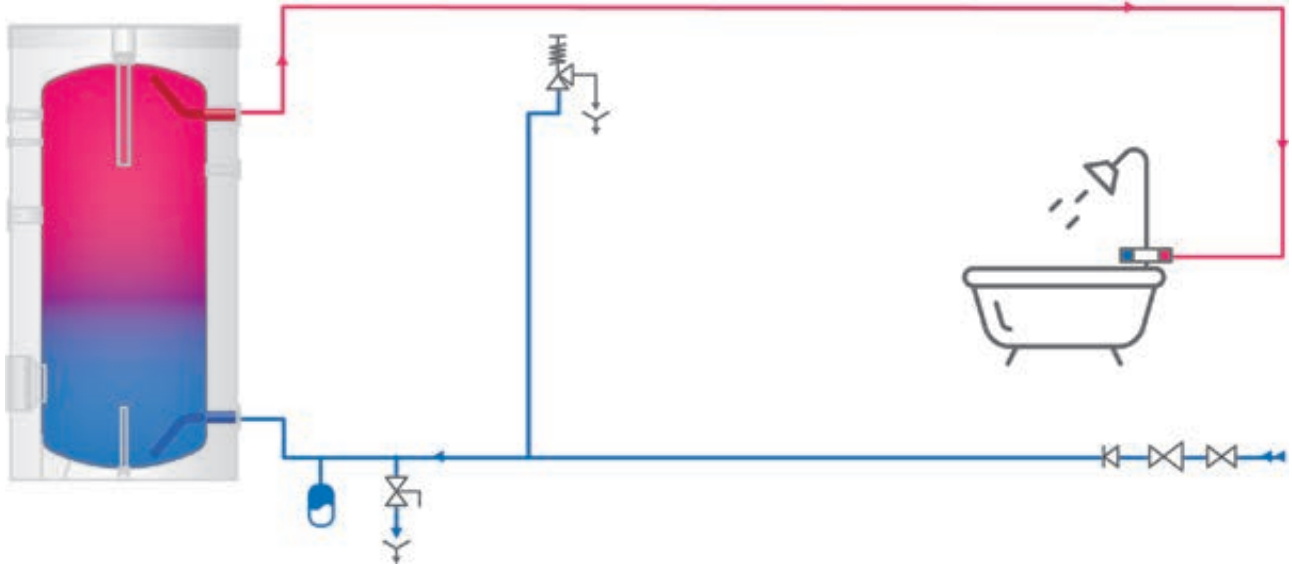
MODEL		EV 12S 800 95 DN18	EV 12S 1500 120 DN18
CW	cold water inlet	G 1½"B	G 2"B
HW	hot water outlet	G 1½"B	G 2"B
IS1	heat exchanger inlet	G 1½"B	G 1½"B
OS1	heat exchanger outlet	G 1½"B	G 1½"B
R	recirculation	G ¾"	G 1½"
T	thermometer	Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"	G ½"
TS	thermo sensor pocket level 1	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"
MA1	Magnesium anode 1	G 1¼"	G 1¼"
MA2	Magnesium anode 2	G 1¼"	G 1¼"
MA3	Magnesium anode 3	-	G 1¼"

Thread designations according to EN ISO 228-1/

Dimensions ±5 mm		EV 12S 800 95 DN18	EV 13S 1000 101 DN18	EV 12S 1500 120 DN18	EV 15S 2000 130 DN18
h	mm	1947	2012	2193	2399
a	mm	1592	1475	1768	1927
b	mm	1051	1132	1168	1298
c	mm	351	354	468	497
d	mm	1780	1846	2061	2246
f	mm	1273	1274	1378	1551
i	mm	929	987	1081	1235
j	mm	269	272	421	411
k	mm	82.5	81.5	90	90
n	mm	756	830	579	578
R	mm	2012	2097	2361	2592
Ø C	mm	990	1050	1200	1300
Ø D	mm	790	850	1000	1100

MODEL		EV 200 60	EV 300 65	EV 400 75	EV 500 75
Art. number	Nº	301399	301402	301405	301406
Capacity	L	202	294	406	497
Net weight	kg	45	66	117	125
Insulation	mm	50	50	50	50
Heat losses ΔT 45K	W	59	68	91	95
Energy efficiency class		B	B	C	C
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	8	8	8	8

INSTALLATION AND CONNECTION SCHEME



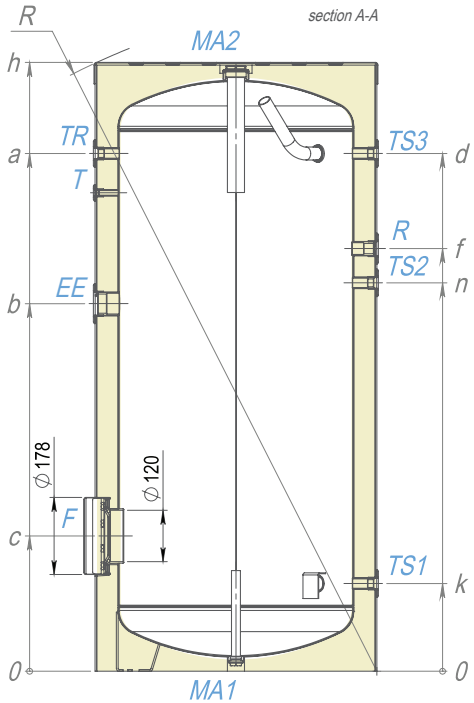
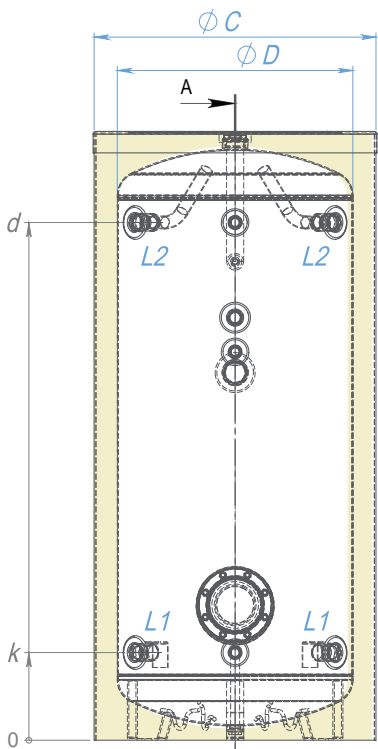
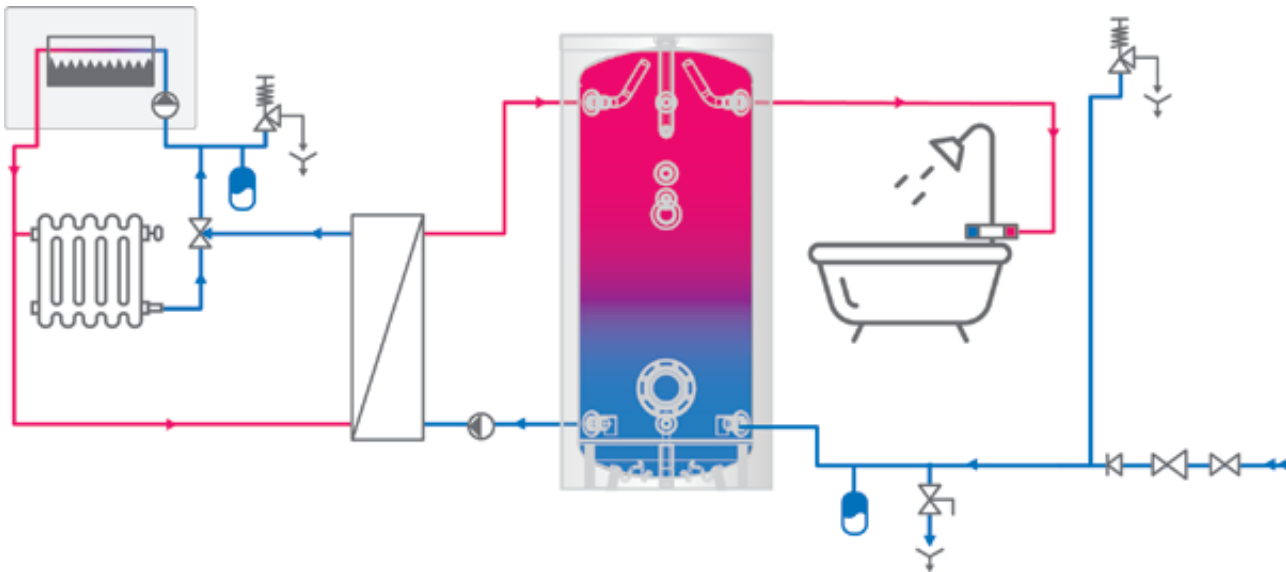
MODEL		for ALL MODELS
CW	cold water inlet	G 1"
HW	hot water outlet	G 1"
R	recirculation	G 3/4"
T	thermometer	Ø 14 x 1,5
TR	opening for thermoregulator	G 1/2"
TS1	thermo sensor pocket level 1	G 1/2"
TS2	thermo sensor pocket level 2	G 1/2"
TS3	thermo sensor pocket level 3	G 1/2"
EE	opening for electric element	G 1 1/2"
MA1	Magnesium anode 1	G 3/4"
MA2	Magnesium anode 2	G 1 1/2"

Thread designations according to EN ISO 228-1/

Dimensions ±5 mm		EV 200 60	EV 300 65	EV 400 75	EV 500 75
h	mm	1207	1427	1407	1702
a	mm	993	1207	1156	1445
b	mm	714	846	813	983
c	mm	314	314	331	321
d	mm	993	1207	1156	1445
f	mm	771	1010	943	1196
k	mm	199	203	220	211
R	mm	1345	1563	1596	1838
Ø C	mm	600	650	750	750
Ø D	mm	500	550	650	650

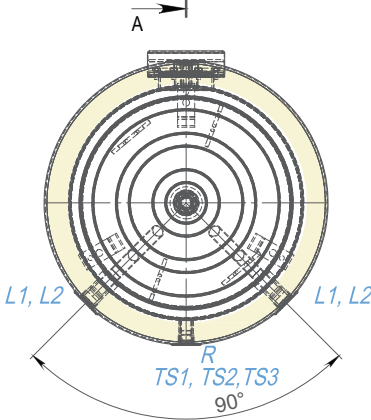
MODEL		EV 200 60 B	EV 300 65 B	EV 500 75 B
Art. number	Nº	305599	305600	305601
Capacity	L	200	300	500
Real volume	L	202	294	497
Net weight	kg	45	66	125
Insulation	mm	50	50	50
Heat losses ΔT 45K	W	59	68	95
Energy efficiency class		B	B	C
Maximum operational temperature	°C	95	95	95
Rated pressure	bar	8	8	8

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS		
R	recirculation	G ¾"
T	thermometer	Ø14x1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
EE	opening for electric element	G 1½"
L1	Level 1	G 1"
L2	Level 2	G 1"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G 1½"

Thread designations according to EN ISO 228-1!

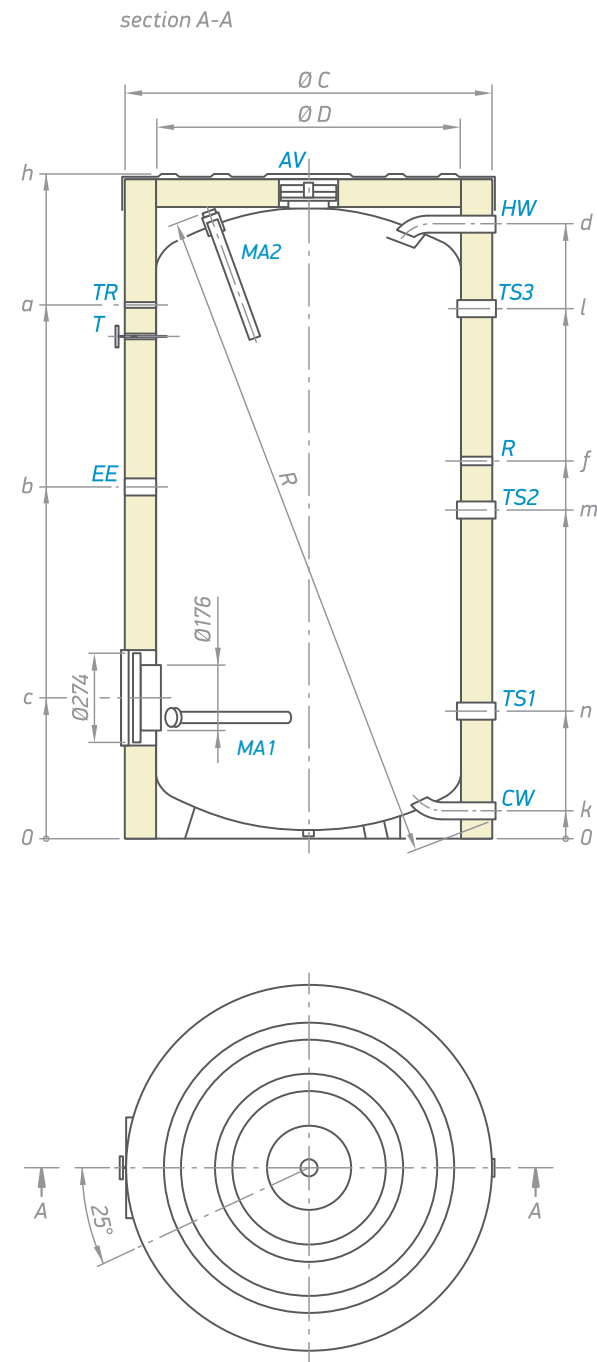
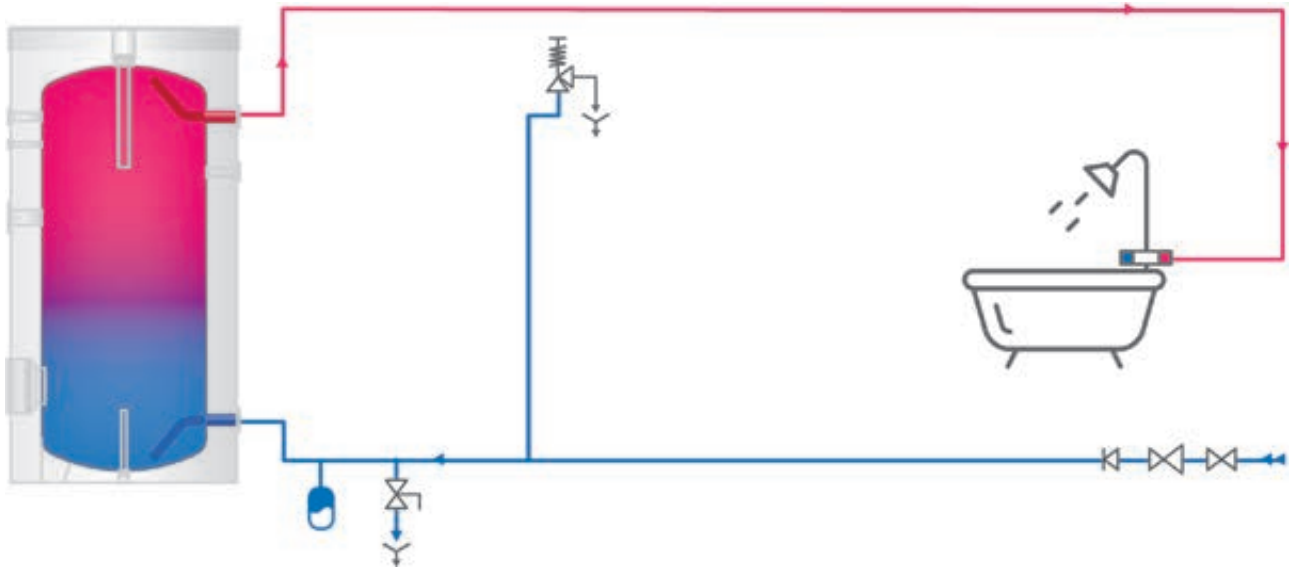


Dimensions ±5 mm		EV 200 60 B	EV 300 65 B	EV 500 75 B
h	mm	1207	1427	1702
a	mm	993	1207	1445
b	mm	726	846	983
c	mm	314	314	321
d	mm	993	1207	1445
f	mm	815	987	1215
k	mm	199	203	211
l	mm	993	1207	1445
m	mm	734	907	1142
n	mm	199	203	211
R	mm	1345	1563	1838
ØC	mm	600	650	750
ØD	mm	500	550	650

MODEL		EV 800 95 DN18		EV 1000 101 DN18	
Art. number	Nº	305436		305221	
Capacity	L	796		974	
Net weight	kg	178		224	
Insulation (rigid PU)	mm	80		80	
Heat losses ΔT 45K	W	128		143	
Energy efficiency class		C		C	
Maximum operational temperature	°C	95		95	
Rated pressure	bar	8		8	

Highly-efficient INSU PRO insulation upon request for the models 800 L and 1000 L.

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS		
CW	cold water inlet	G 1½"B
HW	hot water outlet	G 1½"B
R / Z	recirculation	G ¾"
T	thermometer	Ø14x1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
EE	opening for electric element	G 1½"
AV	opening for air ventilation	G ¾"
L1	Level 1	G 1½"B
L2	Level 2	G 1½"B
MA1	Magnesium anode 1	G1¼"
MA2	Magnesium anode 2	G 1¼"

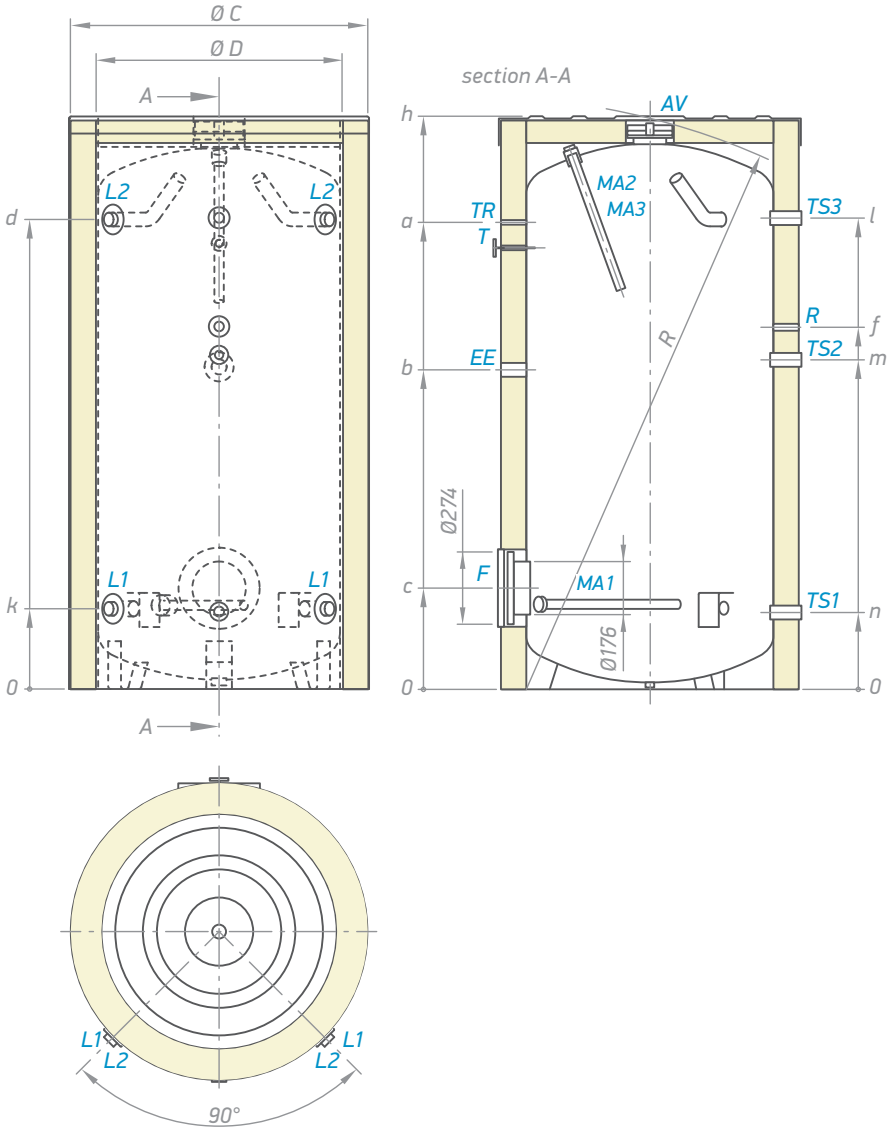
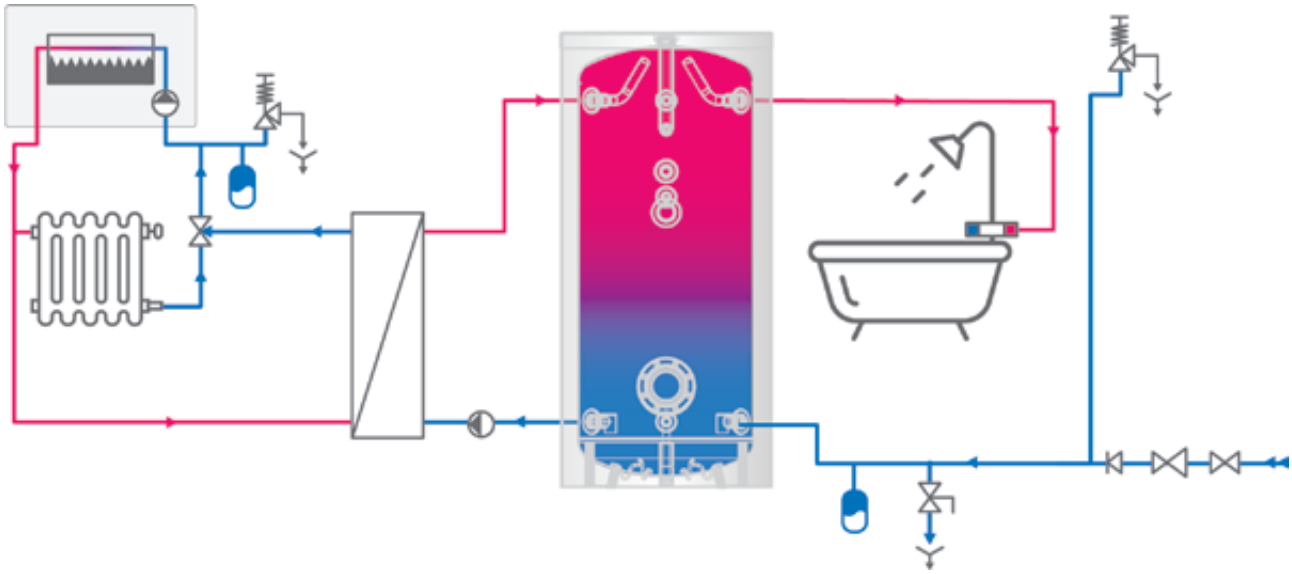
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 800 95 DN18	EV 1000 101 DN18
h	mm	1947	2012
TR	a	mm	1591
EE	b	mm	1050
F	c	mm	350
HW	d	mm	1778
R	f	mm	1272
CW	k	mm	82
TS3	l	mm	1591
TS2	m	mm	1172
TS1	n	mm	268
R	mm	2012	2210
ØC	mm	990	1050
ØD	mm	790	850

MODEL		EV 800 95 B DN18	EV 1000 101 B DN18
Art. number	Nº	305437	305438
Capacity	L	796	974
Net weight	kg	175	211
Insulation	mm	100	100
Heat losses ΔT 45K	W	129	141
Energy efficiency class		C	C
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 2000 L.

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS		
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1-2-3	thermo sensor pocket levels 1-2-3	G ½"
EE	opening for electric element	G 1½"
AV	opening for air ventilation	G ¾"
L1-2	levels 1-2	G 1½"B
MA1	Magnesium anode 1	G 1¼"
MA2	Magnesium anode 2	G 1¼"

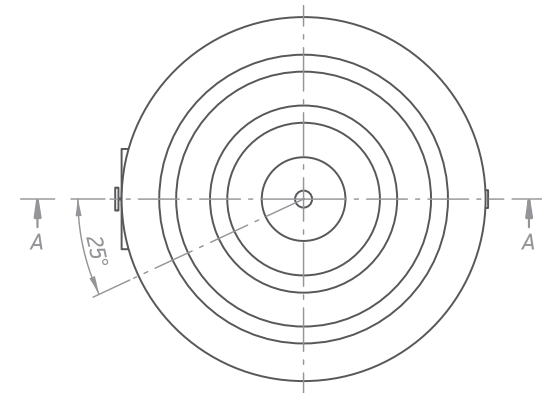
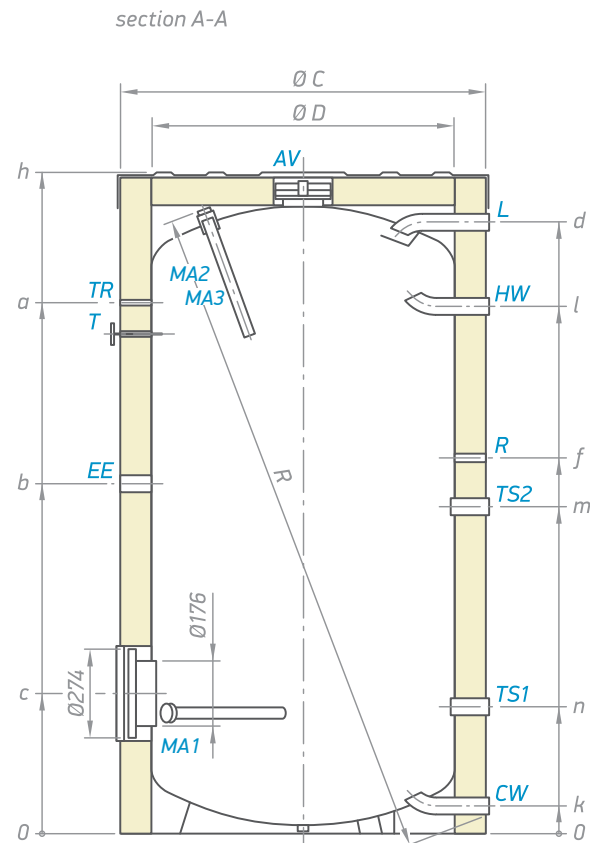
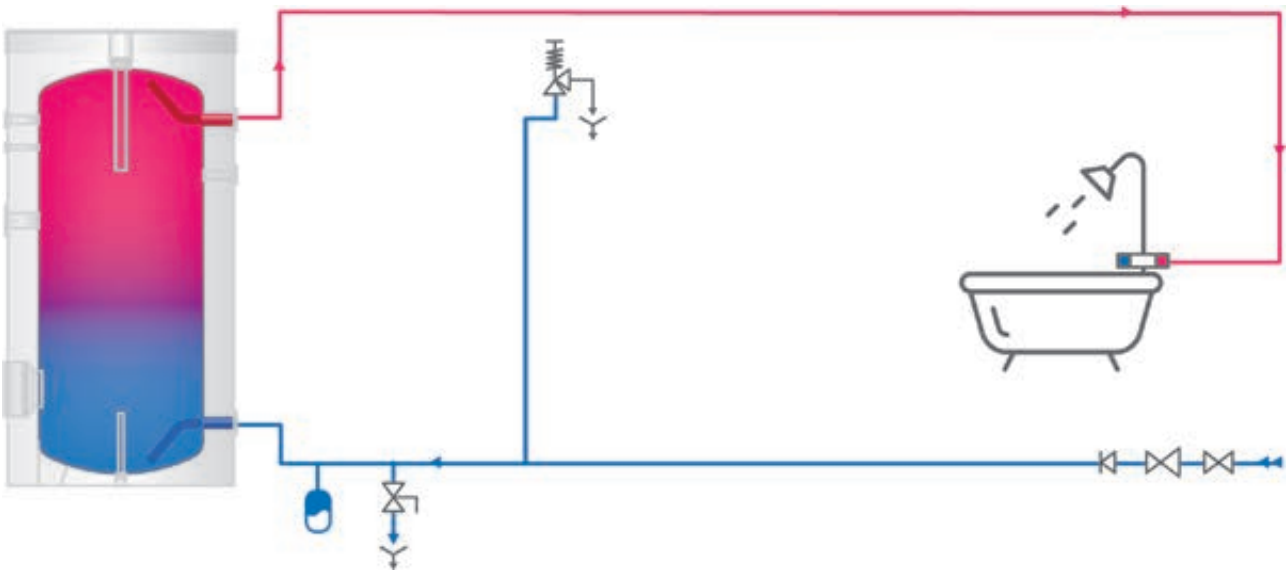
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 800 95 B DN18	EV 1000 101 B DN18
h	mm	1947	2012
a	mm	1591	1656
b	mm	1050	1132
c	mm	350	354
d	mm	1577	1650
f	mm	1272	1274
k	mm	282	284
l	mm	1591	1656
m	mm	1172	1174
n	mm	268	272
R	mm	1927	2012
Ø C	mm	990	1050
Ø D	mm	790	850

MODEL		EV 1500 120 DN18		EV 2000 130 DN18	
Art. number	Nº	305440		305458	
Capacity	L	1476		1904	
Net weight	kg	338		388	
Insulation (rigid PU)	mm	100		100	
Heat losses ΔT 45K	W	158		183	
Energy efficiency class		C		C	
Maximum operational temperature	°C	95		95	
Rated pressure	bar	8		8	

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 2000 L.

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 2" B
HW	hot water outlet	G 2" B
R/Z	recirculation	G 1½"
T	thermometer	Ø14x1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
EE	opening for electric element	G 1½"
AV	opening for air ventilation	G ¾"
L1	Level 1	G 2" B
L2	Level 2	G 2" B
MA1	Magnesium anode 1	G1¼"
MA2	Magnesium anode 2	G 1¼"
MA3	Magnesium anode 3	-

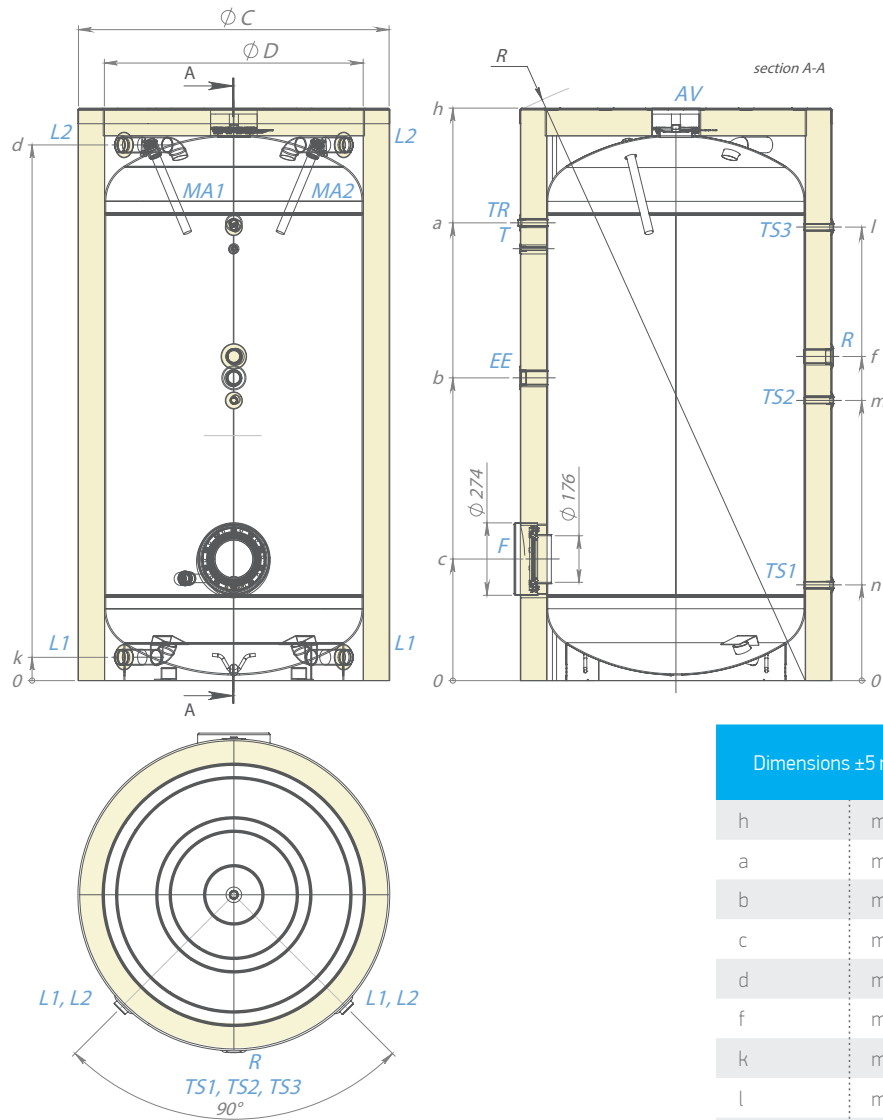
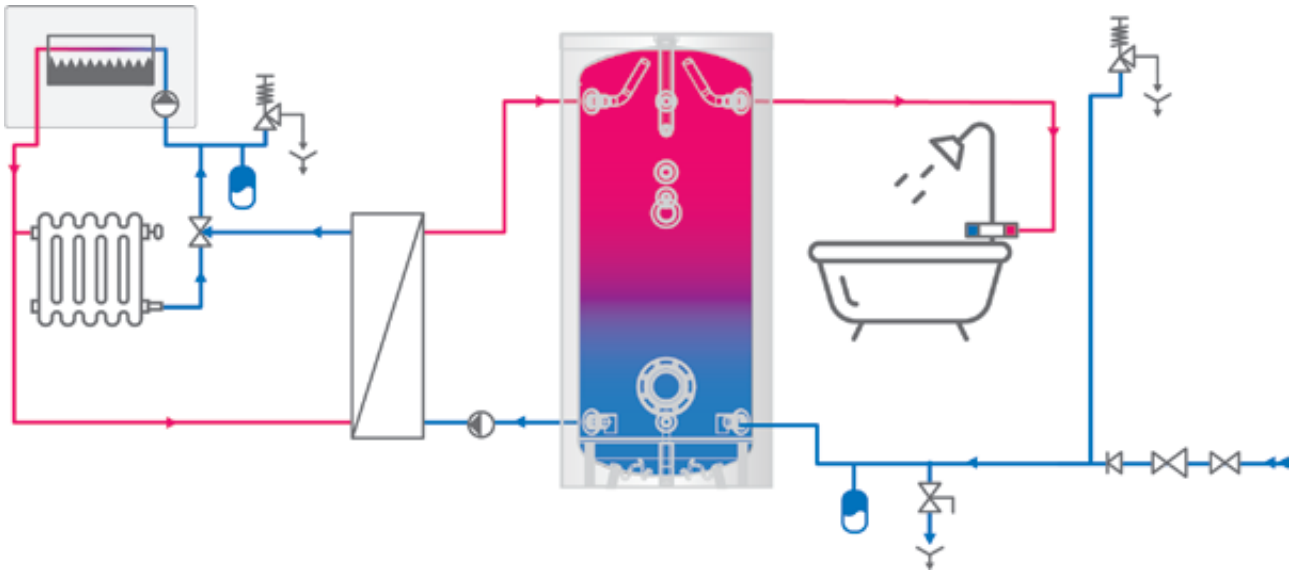
Thread designations according to EN ISO 228-1!

		Dimensions ±5 mm	EV 1500 120 DN18	EV 2000 130 DN18
	h	mm	2212	2412
TR	a	mm	1769	1917
EE	b	mm	1170	1297
F	c	mm	470	487
HW	d	mm	2070	2246
R	f	mm	1252	1360
CW	k	mm	90	90
TS3	l	mm	1752	1905
TS2	m	mm	1082	1131
TS1	n	mm	370	387
	R	mm	2361	2565
	ØC	mm	1200	1300
	ØD	mm	1000	1100

MODEL		EV 1500 120 B DN18	EV 2000 130 B DN18
Art. number	Nº	305439	305445
Capacity	L	1475	1904
Net weight	kg	338	388
Insulation	mm	100	100
Heat losses ΔT 45K	W	158	183
Energy efficiency class		C	C
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 2000 L.

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS		
R	recirculation	G 1½"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1-2-3	thermo sensor pocket levels 1-2-3	G ½"
EE	opening for electric element	G 1½"
AV	opening for air ventilation	G ¾"
L1-2	levels 1-2	G 2"B
MA1	Magnesium anode 1	G1¼"
MA2	Magnesium anode 2	G1¼"
MA3	Magnesium anode 3	G1¼"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 1500 120 B DN18	EV 2000 130 B DN18
h	mm	2212	2412
a	mm	1769	1917
b	mm	1170	1297
c	mm	470	487
d	mm	2070	2246
f	mm	1252	1360
k	mm	90	90
l	mm	1752	1905
m	mm	1082	1131
n	mm	370	387
R	mm	2361	2565
Ø C	mm	1200	1300
Ø D	mm	1000	1100

DOMESTIC HOT WATER TANKS WITH INNOVATIVE ELLIPTIC HEAT EXCHANGERS

ADVANTAGES



DOMESTIC HOT WATER TANKS FOR SOLAR AND BOILER SYSTEMS

Indirectly heated water tanks with a patented construction and innovative elliptic heat exchangers, which provide greater efficiency without affecting the volume of the product.

The range includes models from 160 L to 500 L:

- with two thermodynamic highly efficient heat exchangers with an innovative elliptic shape*
- with one thermodynamic highly efficient heat exchanger with an innovative elliptic shape*

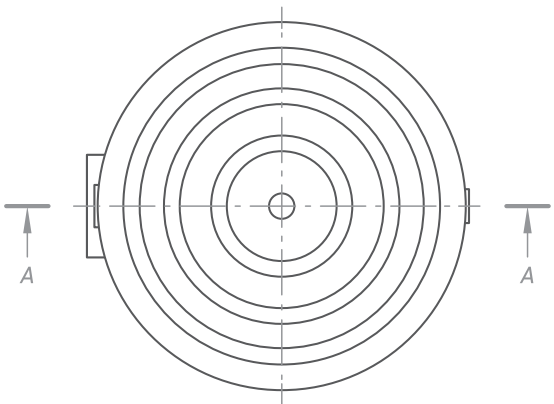
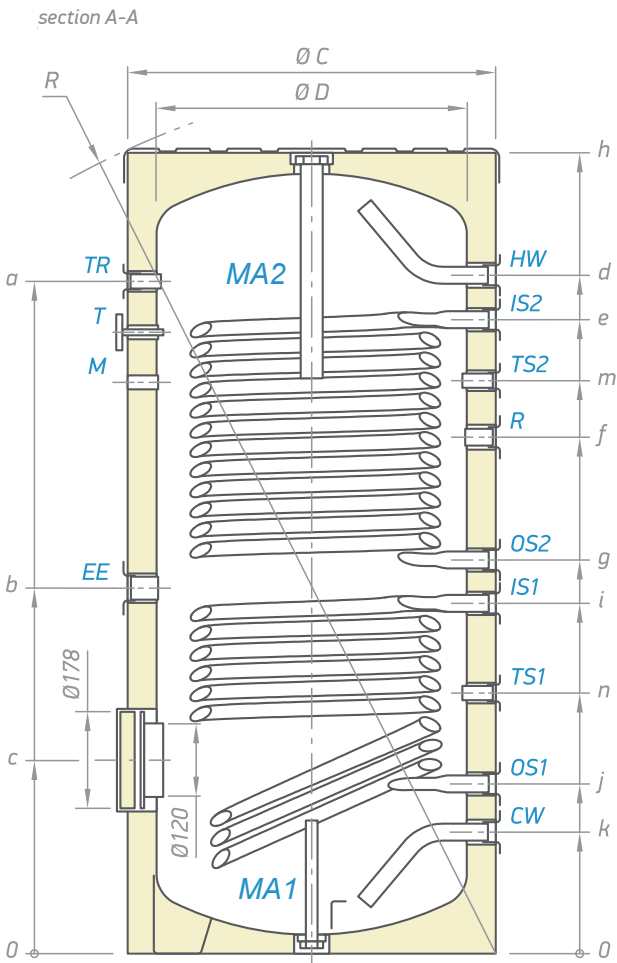
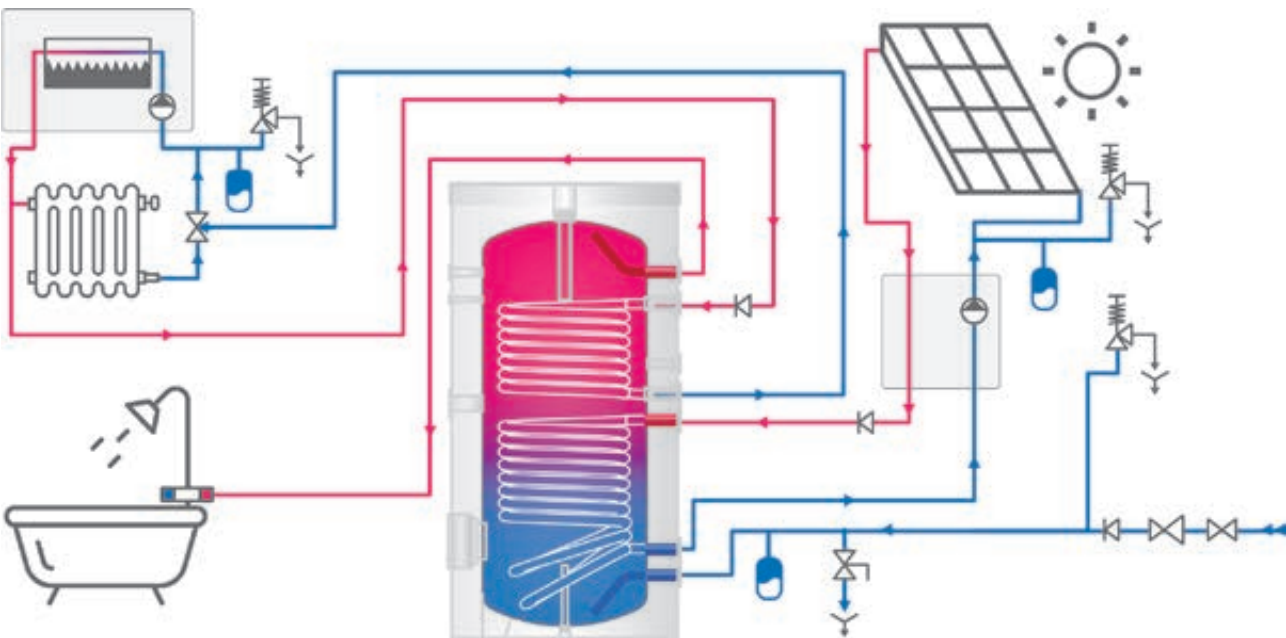


* Models are built to provide greater efficiency and power with the upper heat exchanger, keeping the original size of the product.

MODEL		EV 4/5 SE 160 60 10	EV 7/8 SE 200 60 10	EV 9/12 SE 300 65 10	EV 9/11 SE 400 75 10	EV 9/16 SE 500 75 10
Art. number	Nº	304875	304736	304841	304842	304844
Capacity	L	155	189	278	384	466
Net weight	kg	72	74	113	144	180
Insulation (rigid PU)	mm	50	50	50	50	50
Heat exchanger surface S1	m²	0.43	0.75	1.11	1.37	1.37
Heat exchanger surface S2	m²	0.54	0.87	1.48	1.68	2.46
Heat exchanger capacity S1	L	2.0	3.0	5.0	6.5	6.5
Heat exchanger capacity S2	L	2.5	4.1	6.9	7.9	11.5
Heat losses ΔT 45K	W	51	59	68	91	95
Energy efficiency class		B	B	B	C	C
Maximum operational temperature	°C	95	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110	110
Rated pressure	bar	10	10	10	10	10
Rated pressure of the heat exchanger	bar	10	10	10	10	10
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	8.8 / (16.6)	15.9 / (20.8)	22.5 / (25.0)	28.25 / (29.2)	24.3 / (29.2)
Heat exchanger reheat performance P at flow rate of primary side (S2)	kW / (L/min)	10.8 / (16.6)	17.6 / (20.8)	29.9 / (25.0)	35.4 / (29.2)	40.8 / (29.2)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	218.3	282.2	392.3	561.0	669.9
V40 - hot water delivered with a temperature of at least 40°C (S2)	L	122.1	148.8	222.2	290.7	407.3
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	37.0 / (16.6)	38.7 / (20.8)	39.7 / (25.0)	43.6 / (29.2)	60.0 / (29.2)
Reheat time 10-60°C flow rate at primary side (S2)	min / (L/min)	24.3 / (16.6)	18.4 / (20.8)	17.0 / (25.0)	18.2 / (29.2)	23.4 / (29.2)
Coil pressure drop at flow rate m³/h (S1)	mbar / (L/min)	20.6 / (16.6)	50.4 / (20.8)	81.1 / (25.0)	166.8 / (29.2)	158.6 / (29.2)
Coil pressure drop at flow rate m³/h (S2)	mbar / (L/min)	25.0 / (16.6)	51.6 / (20.8)	120.3 / (25.0)	181.6 / (29.2)	254.9 / (29.2)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G1"
HW	hot water outlet	G1"
IS1	heat exchanger inlet	G1"
IS2	heat exchanger inlet	G1"
OS1	heat exchanger outlet	G1"
OS2	heat exchanger outlet	G1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
EE	opening for electric element	G 1½"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G1½"

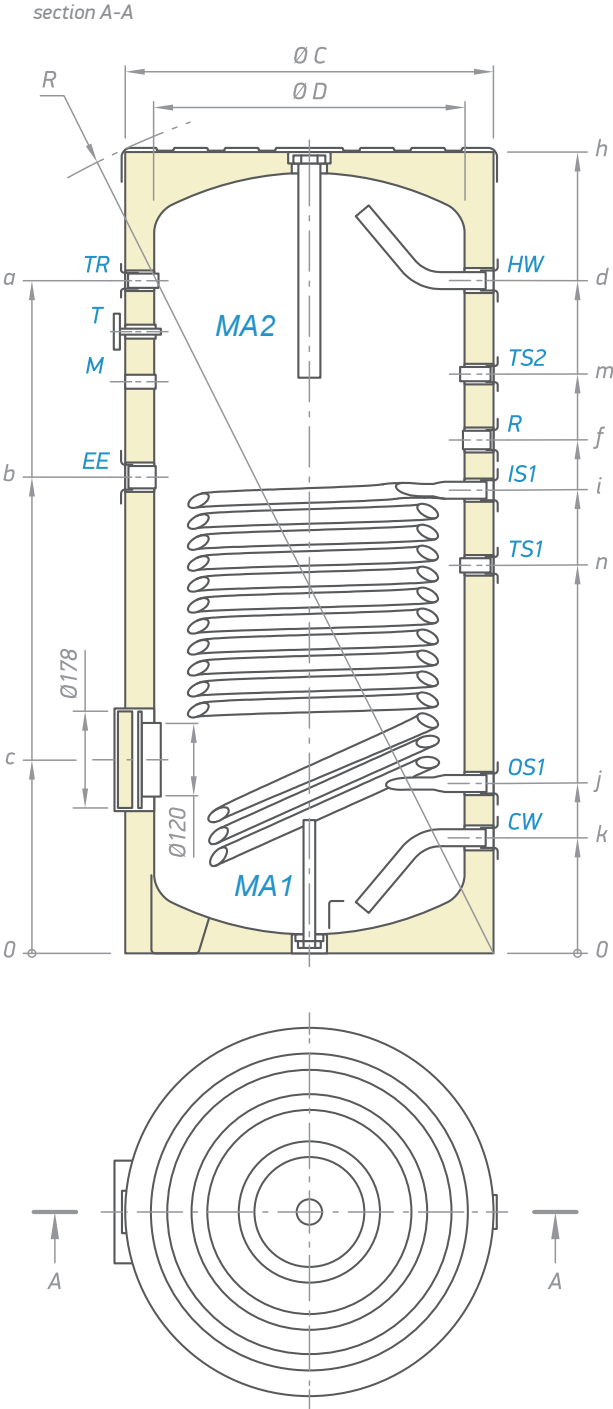
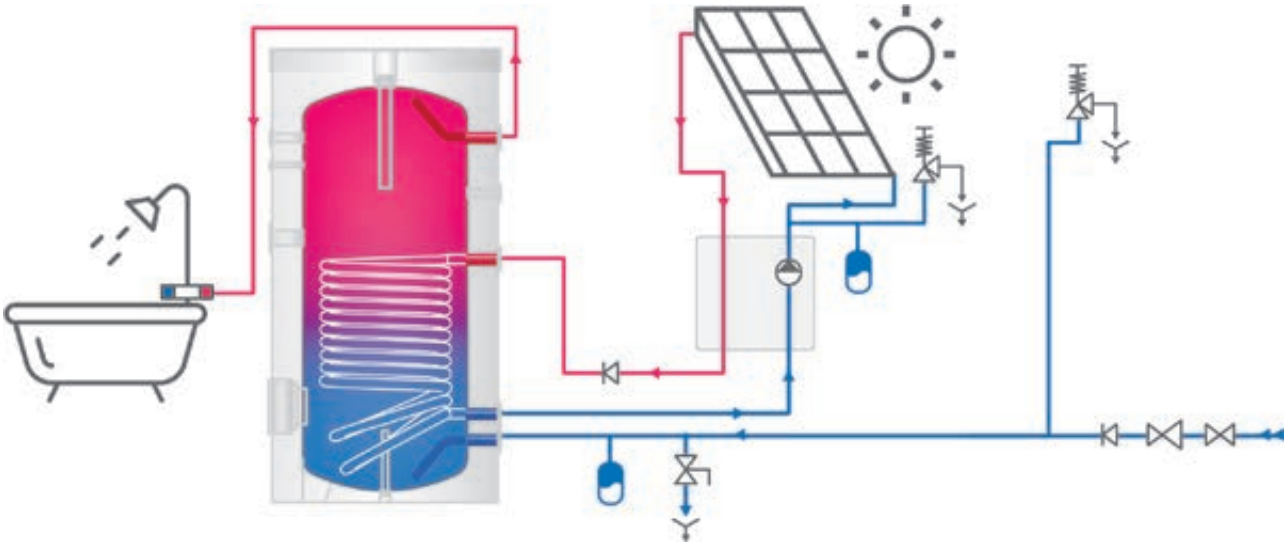
Thread designations according to EN ISO 228-1!
There is an option for placing manometer as additional fitting.

Dimensions ±5 mm		EV 4/5 SE 160 60 10	EV 7/8 SE 200 60 10	EV 9/12 SE 300 65 10	EV 9/11 SE 400 75 10	EV 9/16 SE 500 75 10
h	mm	1000	1202	1415	1407	1679
a	mm	789	996	1188	1182	1450
b	mm	479	582	644	667	688
c	mm	321	316	341	330	326
d	mm	789	996	1188	1182	1450
e	mm	706	917	1107	1105	1337
f	mm	614	759	901	935	1198
g	mm	521	621	687	722	745
i	mm	437	541	601	617	634
j	mm	289	282	286	302	301
k	mm	207	202	204	220	216
m	mm		839	1001	1025	1063
n	mm	363	414	451	472	473
R	mm	1169	1345	1563	1593	1841
Ø C	mm	600	600	650	750	750
Ø D	mm	500	500	550	650	650

MODEL		EV 11 SE 160 60 10	EV 12 SE 200 60 10	EV 14 SE 300 65 10	EV 14 SE 400 75 10	EV 17 SE 500 75 10
Art. number	Nº	304871	304876	304840	304874	304873
Capacity	L	152	192	277	387	473
Net weight	kg	70	74	110	135	174
Insulation (rigid PU)	mm	50	50	50	50	50
Heat exchanger surface S1	m²	1.2	1.3	1.7	2.2	2.6
Heat exchanger capacity S1	L	5.6	5.9	8.1	9.9	12.5
Heat losses ΔT 45K	W	51	59	68	91	95
Energy efficiency class		B	B	B	C	C
Maximum operational temperature	°C	95	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110	110
Rated pressure	bar	10	10	10	10	10
Rated pressure of the heat exchanger	bar	10	10	10	10	10
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	22.7 / (16.6)	27.3 / (20.8)	31.7 / (25.0)	37.6 / (29.2)	47.6 / (29.2)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	202.3	279.2	379.6	544.8	707
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	19.21 / (16.6)	22.08 / (20.8)	27.4 / (25.0)	31.5 / (29.2)	32.3 / (29.2)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	51.2 / (16.6)	81.6 / (20.8)	147.5 / (25.0)	232.0 / (29.2)	446.5 / (29.2)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G1"
HW	hot water outlet	G1"
IS1	heat exchanger inlet	G1"
OS1	heat exchanger outlet	G1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
EE	opening for electric element	G 1½"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G1½"

Thread designations according to EN ISO 228-1!
There is an option for placing manometer as additional fitting

Dimensions ±5 mm		EV 11 SE 160 60 10	EV 12 SE 200 60 10	EV 14 SE 300 65 10	EV 14 SE 400 75 10	EV 17 SE 500 75 10
h	mm	1000	1202	1415	1407	1679
a	mm	789	996	1188	1162	1449
b	mm	321	749	841	862	977
c	mm	321	316	341	330	325
d	mm	789	996	1188	1162	1449
f	mm	479	794	892	972	1198
i	mm	674	702	804	820	929
j	mm	289	282	286	302	300
k	mm	207	202	204	220	215
m	mm		897	1023	1067	1324
n	mm	574	569	671	692	772
R	mm	1169	1345	1563	1593	1841
Ø C	mm	600	600	650	750	750
Ø D	mm	500	500	500	650	650

DOMESTIC HOT WATER TANKS WITH TWO PARALLEL HEAT EXCHANGERS

ADVANTAGES



DOMESTIC HOT WATER TANKS FOR SOLAR AND BOILER SYSTEMS

Floor-standing indirectly heated water tanks with two integrated heat exchangers with a similar heat transfer surface, allowing the connection to two heat sources and the effective heating of the full volume of the water.

The range includes models of 200, 300, 400 and 500 liters of capacity.

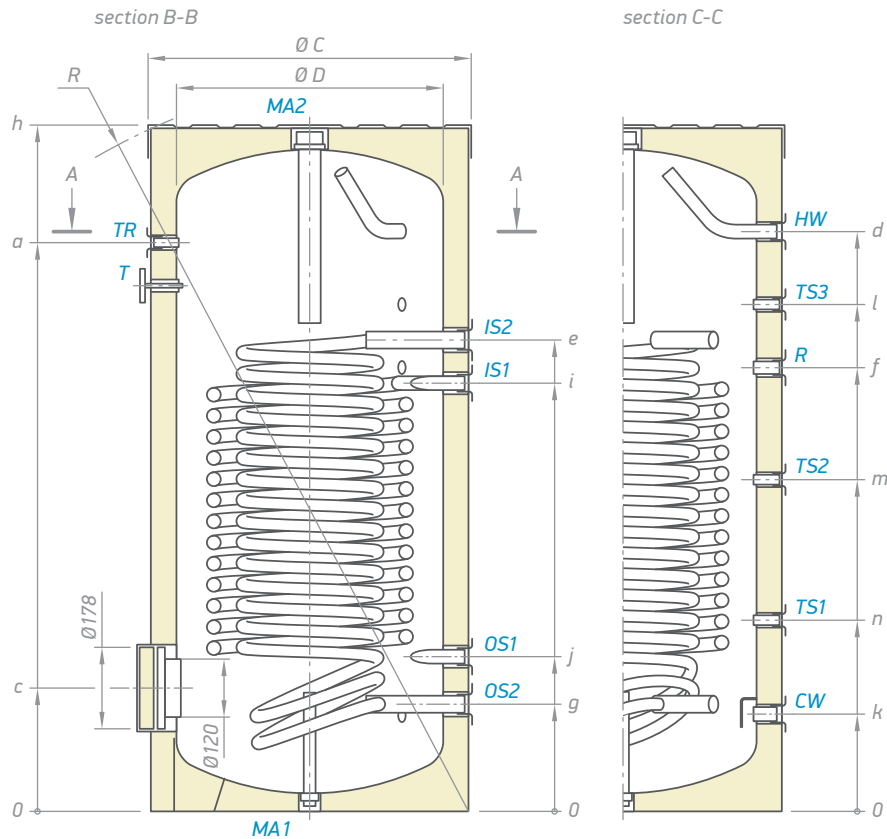
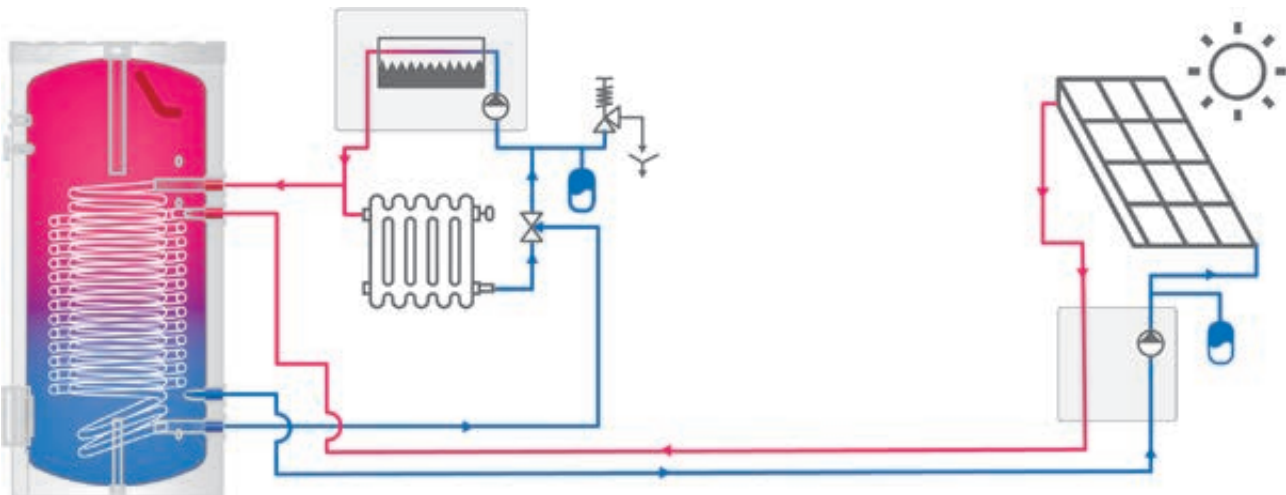
Advantages:

- Effectively heating the full volume of water with two built-in heat exchangers with large surface.
- High efficient CFC free PU Foam insulation that minimize heat losses.
- CrystalTech PRO: High quality enamel coating for longer life.
- Two anode protectors for additional anti-corrosion protection of the water tank.
- Option to install different in power stainless steel heating elements.
- Service opening for easy cleaning and maintenance.
- Recirculation opening.

MODEL		EV 9S+13S 200 60	EV 13S+17S 300 65	EV 12S+17S 400 75	EV 12S+17S 500 75
Art. number	Nº	304998	304892	304997	304996
Capacity	L	187	275	372	462
Net weight	kg	85	112	147	164
Insulation (rigid PU)	mm	50	50	50	50
Heat exchanger surface S1	m²	0.95	1.55	1.8	1.8
Heat exchanger surface S2	m²	0.92	1.45	1.95	1.95
Heat exchanger capacity S1	L	5.8	9.5	11	11
Heat exchanger capacity S2	L	5.6	8.8	11.5	11.5
Heat losses ΔT 45K	W	59	68	68	95
Energy efficiency class		B	B	C	C
Maximum operational temperature	°C	95	95	91	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110
Rated pressure	bar	8	8	8	8
Rated pressure of the heat exchanger	bar	8	8	8	8
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	20.3 / (20.8)	31.3 / (25.0)	32.8 / (29.2)	33.6 / (29.2)
Heat exchanger reheat performance P at flow rate of primary side (S2)	kW / (L/min)	20.1 / (20.8)	29.5 / (25.0)	33.9 / (29.2)	38.7 / (29.2)
Heat exchangers reheat performance P at flow rate of primary side (S1+S2)	kW / (L/min)	30.4 / (20.8)	42.6 / (25.0)	49.7 / (29.2)	49.6 / (29.2)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	265	382	530	691
V40 - hot water delivered with a temperature of at least 40°C (S2)	L	288	405	550	715
V40 - hot water delivered with a temperature of at least 40°C (S1+S2)	L	288	417	555	724
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	25.9 / (20.8)	25.6 / (25.0)	33.3 / (29.2)	41.1 / (29.2)
Reheat time 10-60°C flow rate at primary side (S2)	min / (L/min)	28.7 / (20.8)	29.2 / (25.0)	32.3 / (29.2)	37.5 / (29.2)
Reheat time 10-60°C flow rate at primary side (S1+S2)	min / (L/min)	19.0 / (20.8)	20.1 / (25.0)	22.4 / (29.2)	29.2 / (29.2)
Coil Pressure drop at flow rate m³/h (S1)	mbar / (L/min)	43.3 / (20.8)	73.3 / (25.0)	110.2 / (29.2)	116.7 / (29.2)
Coil Pressure drop at flow rate m³/h (S2)	mbar / (L/min)	45.4 / (20.8)	67.9 / (25.0)	140.2 / (29.2)	141.0 / (29.2)
Coil Pressure drop at flow rate m³/h (S1+S2)	mbar / (L/min)	49.8 / (20.8)	71.1 / (25.0)	115.1 / (29.2)	101.6 / (29.2)

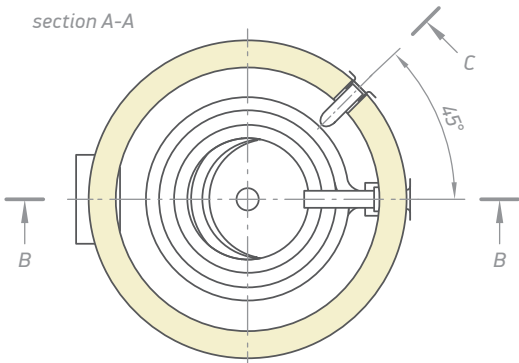
* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS		
CW	cold water inlet	G1"
HW	hot water outlet	G1"
IS1	heat exchanger inlet	G1"
IS2	heat exchanger inlet	G1"
OS1	heat exchanger outlet	G1"
OS2	heat exchanger outlet	G1"
R	recirculation	G ¾"
T	thermometer	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"
TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
MA1	Magnesium anode 1	G ¾"
MA2	Magnesium anode 2	G1½"

Thread designations according to EN ISO 228-1!



Dimensions ±5 mm		EV 9S+13S 200 60	EV 13S+17S 300 65	EV 12S+17S 400 75	EV 12S+17S 500 75
h	mm	1197	1420	1400	1670
a	mm	996	1184	1168	1447
c	mm	274	273	272	282
d	mm	996	1208	1171	1447
e	mm	803	963	980	990
f	mm	781	923	1059	1062
g	mm	204	203	215	225
i	mm	697	866	856	866
j	mm	310	307	340	350
k	mm	202	203	225	225
l	mm	897	1055	1059	1262
m	mm	633	691	778	864
n	mm	360	398	448	467
R	mm	1340	1560	1590	1833
Ø C	mm	600	650	750	750
Ø D	mm	500	550	650	650

DOMESTIC HOT WATER TANKS WITH UPPER CONNECTIONS

ADVANTAGES



8
Bar



More information about the optional
heat exchanger can be found on page 125
with art. number 305619

* Added opening on the top cover of the tank,
which ensures an easy installation of a heating
element, if required.

DOMESTIC HOT WATER TANKS FOR INSTALLATION UNDER WALL-HUNG BOILERS

Floor-standing indirectly heated water tanks with compact external dimensions, increased¹ surface of the internal heat exchanger and conveniently located sockets for easy connection.

The range includes models with 120L and 160L of capacity with a heat exchanger.

Advantages:

- Compact overall dimensions, suitable for installation under wall-hung boilers.
- Convenient placement of the outlets in a semicircle above the top cover for installation under a gas boiler.
- Reducing the gas consumption at low hot water consumption.
- Possibility to work with a plug-and-play electric heating element (3 kW) as a back up.
- Highly efficient PU insulation, developed to keep the water hot for a longer period of time and to help reduce heat losses. With or without a service opening, according to customer needs.
- Drainage outlet.
- Powerful heat exchanger in compliance with standard boiler parameters.
- Energy efficient appliance in compliance with the European regulations (Class A for 120 l model).

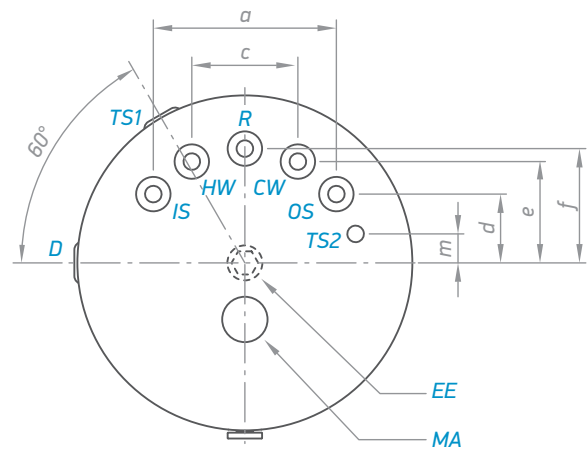
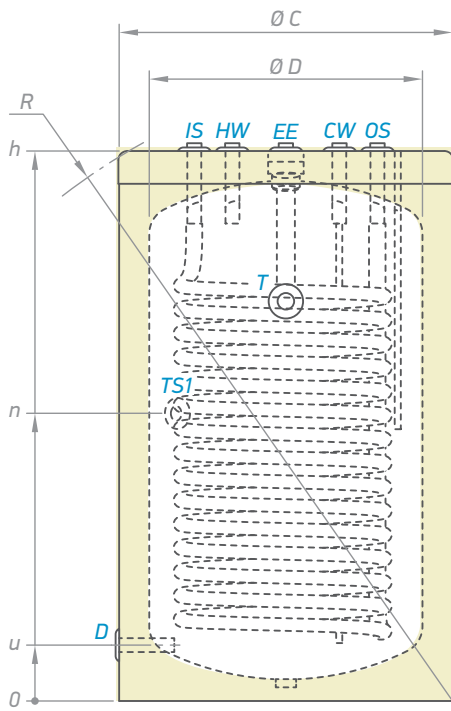
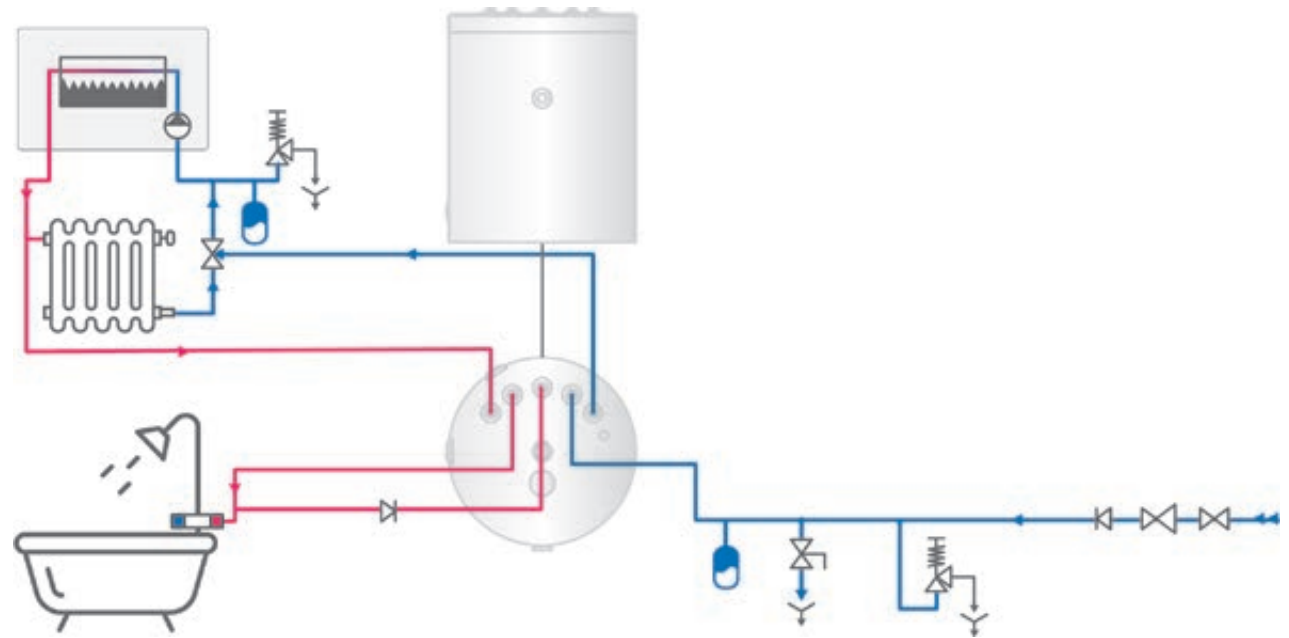
¹ - Compared to models EV 8S 160 60 Z and EV 8S 120 55 Z

² - Subject to compliance with the installation and commissioning requirements specified in the manufacturer's instructions

MODEL		EV 10S 120 60 Z PS	EV 15S 160 60 Z PS
Art. number	Nº	304969	305077
Capacity	L	114	150
Net weight	kg	64	68
Insulation (rigid PU)	mm	50	50
Heat exchanger surface S1	m²	1	1.52
Heat exchanger capacity S1	L	6.2	9.5
Heat losses ΔT 45K	W	35	46
Energy efficiency class		A	B
Maximum operational temperature	°C	95	95
Maximum operational temperature of heat exchanger	°C	110	110
Rated pressure	bar	8	8
Rated pressure of the heat exchanger	bar	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW / (L/min)	17.7 / (15.0)	25.1 / (16.6)
V40 - hot water delivered with a temperature of at least 40°C (S1)	L	176	230.5
Reheat time 10-60°C flow rate at primary side (S1)	min / (L/min)	176.0 / (15.0)	18.5 / (16.6)
Coil Pressure drop at flow rate m³/h (S1)	mbar/(L/min)	32.9 / (15.0)	58.2 / (16.6)

* inlet temperature of the heat transfer fluid (S1/S2) 80°
** 10°C - cold water temperature, 60°C - hot water temperature (domestic water)

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS		
CW	cold water inlet	G ¾"B
HW	hot water outlet	G ¾"B
IS1	heat exchanger inlet	G ¾"B
OS1	heat exchanger outlet	G ¾"B
R	recirculation	G ¾"B
T	thermometer	Ø 14 x 1.5
TS1	thermo sensor pocket level 1	Ø10x1.5
TS2	thermo sensor pocket level 2	Ø16x1.5
D	drainage	G ½"
MA	Magnesium anode	G 1¼"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 10S 120 60 Z PS	EV 15S 160 60 Z PS
h	mm	797	1001
a	mm	330	330
c	mm	192	192
d	mm	125	125
e	mm	183	183
f	mm	206	207
m	mm	54	53
n	mm	350	526
u	mm	100	100
R	mm	996	1167
Ø C	mm	600	600
Ø D	mm	500	500

ENAMELED BUFFER TANKS FOR HEAT PUMP SYSTEMS

ADVANTAGES



ENAMELED BUFFER TANKS FOR HEAT PUMP SYSTEMS

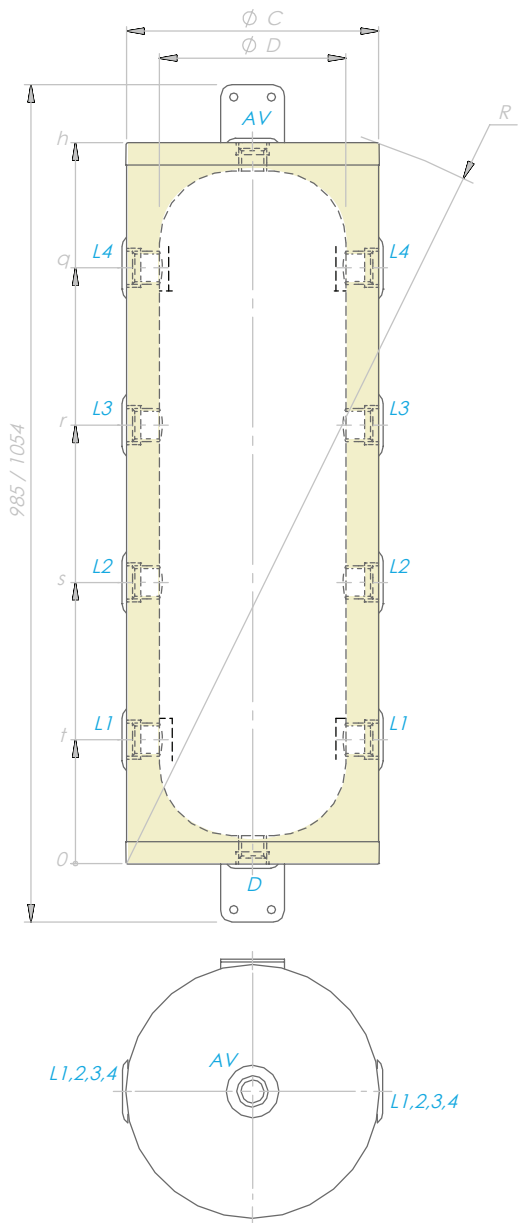
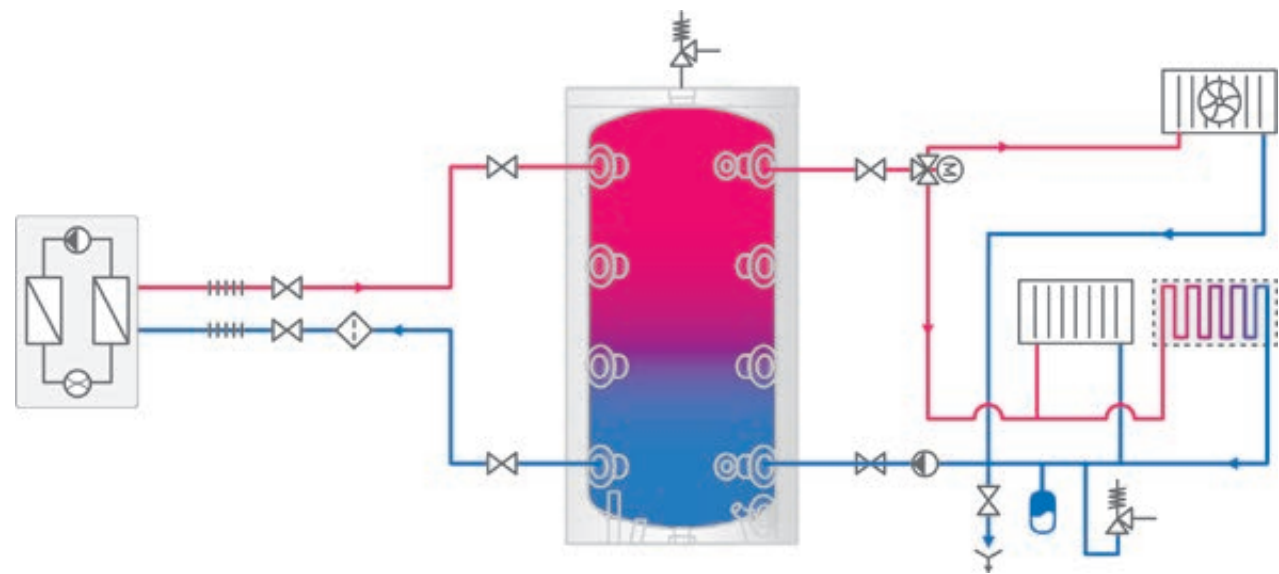
The range includes models with 50 L and 80 L of capacity without a heat exchanger for wall installation.

Advantages:

- Insulation of 50 mm high-density PU for low energy losses.
- 4 inlets and 4 outlets with G 1.1/4" for a higher flow rate.
- High energy efficiency class B.
- Stratification brackets on the upper and lower inlets and outlets.
- Drainage on G 1 1/2".
- Air Ventilation on G 3/4".
- Rated pressure 6 bar.

MODEL		EV 50 40	EV 80 46
Art.number	Nº	423102	423101
Capacity	L	51	80
Net weight	kg	24.2	36
Insulation (rigid PU)	mm	50	50
Heat losses ΔT45K	W	38	45
Energy efficiency class		B	B
Maximum operational temperature	°C	95	95
Rated pressure	bar	6	6

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

AV	Opening for air ventilation	G ¾"
D	Drainage	G 1½"
L1	Level 1	G 1¼"
L2	Level 2	G 1¼"
L3	Level 3	G 1¼"
L4	Level 4	G 1¼"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		EV 50 40	EV 80 46
h	mm	865	915
q	mm	718	742
r	mm	528	552
s	mm	338	362
t	mm	148	172
R	mm	953	1003
ØC	mm	400	460
ØD	mm	300	360

COMBINED BUFFER TANKS WITH A CORRUGATED STAINLESS STEEL HYGIENIC HEAT EXCHANGER

ADVANTAGES



COMBINED BUFFER TANKS FOR HEATING SYSTEMS AND DOMESTIC HOT WATER PRODUCTION

A range of buffer tanks from 500 L to 1000 L that includes models with:

- a hygienic stainless-steel corrugated coil and two heat exchangers
- a hygienic stainless-steel corrugated coil and one heat exchanger
- a hygienic stainless-steel corrugated coil

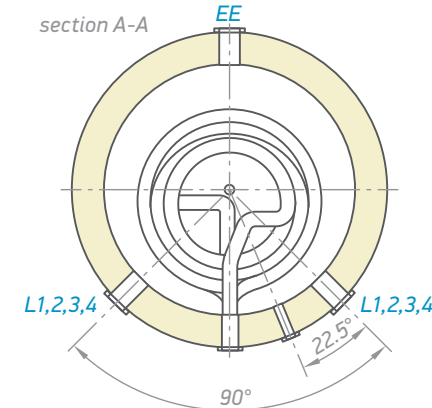
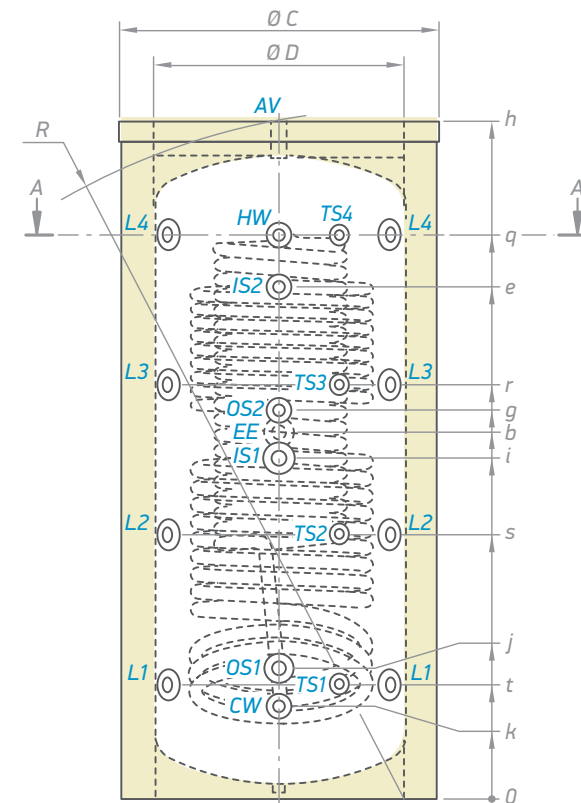
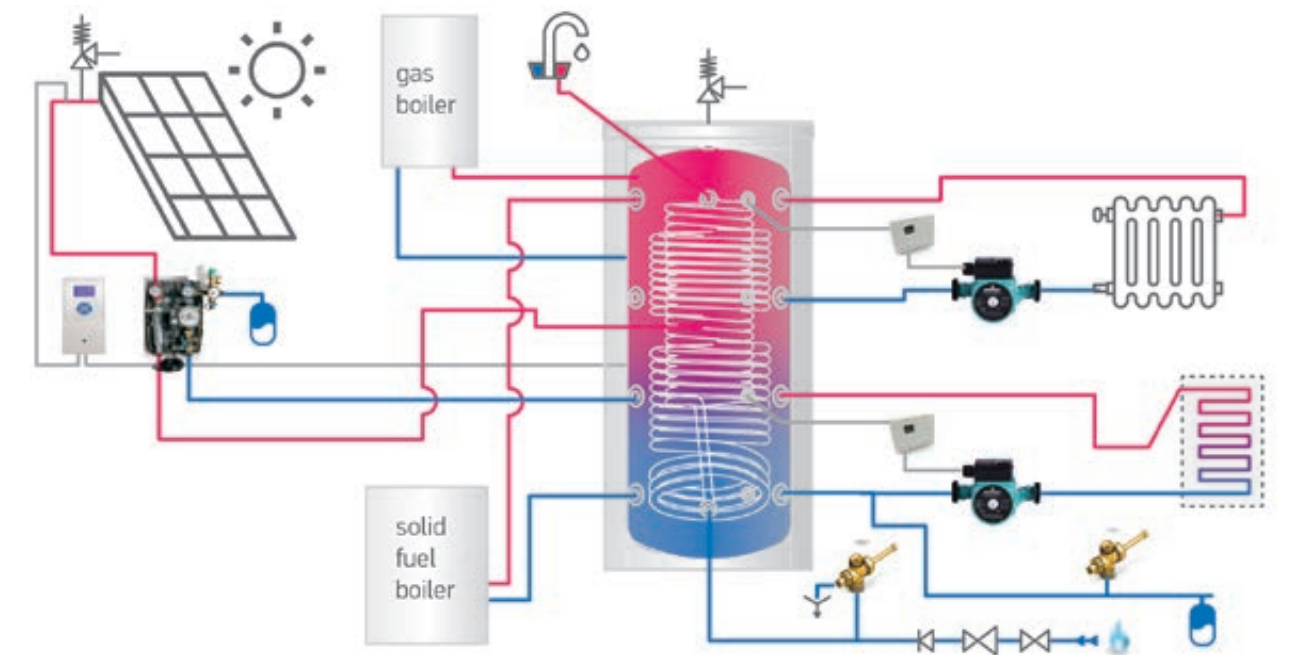
Advantages:

- Production of domestic hot water by means of a hygienic heat exchanger made of AISI 316L steel.
- 10 bar maximum operating pressure of the domestic hot water heat exchanger.
- 95 °C maximum operating temperature of the domestic hot water heat exchanger.
- 3 Inlets and 3 outlets for connection to a central heating system.
- 4 pockets for controller thermoprobes.
- Available models with additional coil heat exchangers for solar energy.
- Maximum domestic flow rate; buffer fully loaded continuous mode – 1500 L/h - 1700 L/h.
- Highly-efficient INSU PRO insulation upon request for the models 800 L and 1000 L.

MODEL		V 10/6 S2 800 95 HYG 5.5 HE C	V 10/9 S2 1000 95 HYG5.5 HE C
Art. number	Nº	303829	303830
Nominal capacity buffer tank	L	738	827
Net weight	kg	210	230
Insulation	mm	100	100
Heat exchanger surface S1	m²	2.23	2.23
Heat exchanger surface S2	m²	1	1.54
Surface hygienic heat exchanger	m²	5.5	5.5
Heat exchanger content S1	L	19.2	19.2
Heat exchanger content S2	L	5.9	8.7
Nominal volume hygienic heat exchanger	L	28	28
Heat loss ΔT 45K	W	128	136
Energy efficiency class		C	C
Maximum operational temperature buffer tank	°C	95	95
Maximum operational temperature of heat exchanger	°C	110	110
Maximum operational temperature hygienic heat exchanger	°C	95	95
Rated pressure of buffer tank	bar	3	3
Rated pressure of the heat exchanger	bar	6	6
Rated pressure hygienic heat exchanger	bar	10	10

Highly-efficient INSU PRO insulation upon request for the models 800 L and 1000 L.

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

CW	cold water inlet	G 1½" B
HW	hot water outlet	G 1½" B
IS1-2	heat exchanger inlet	G 1½" B
OS1-2	heat exchanger outlet	G 1½" B
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"
EE	opening for electric element	G 1½"
AV	opening for air ventilation	G 1½"
L1-2-3-4	levels 1-2-3-4	G 1½"

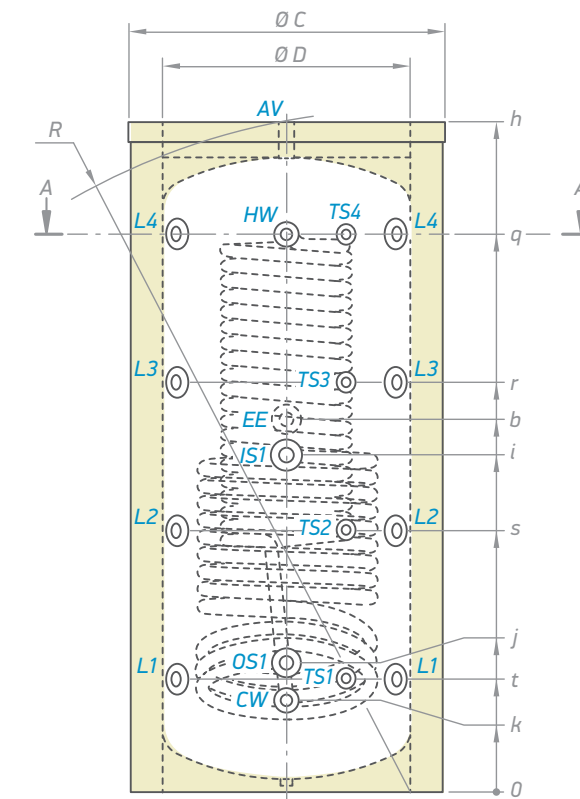
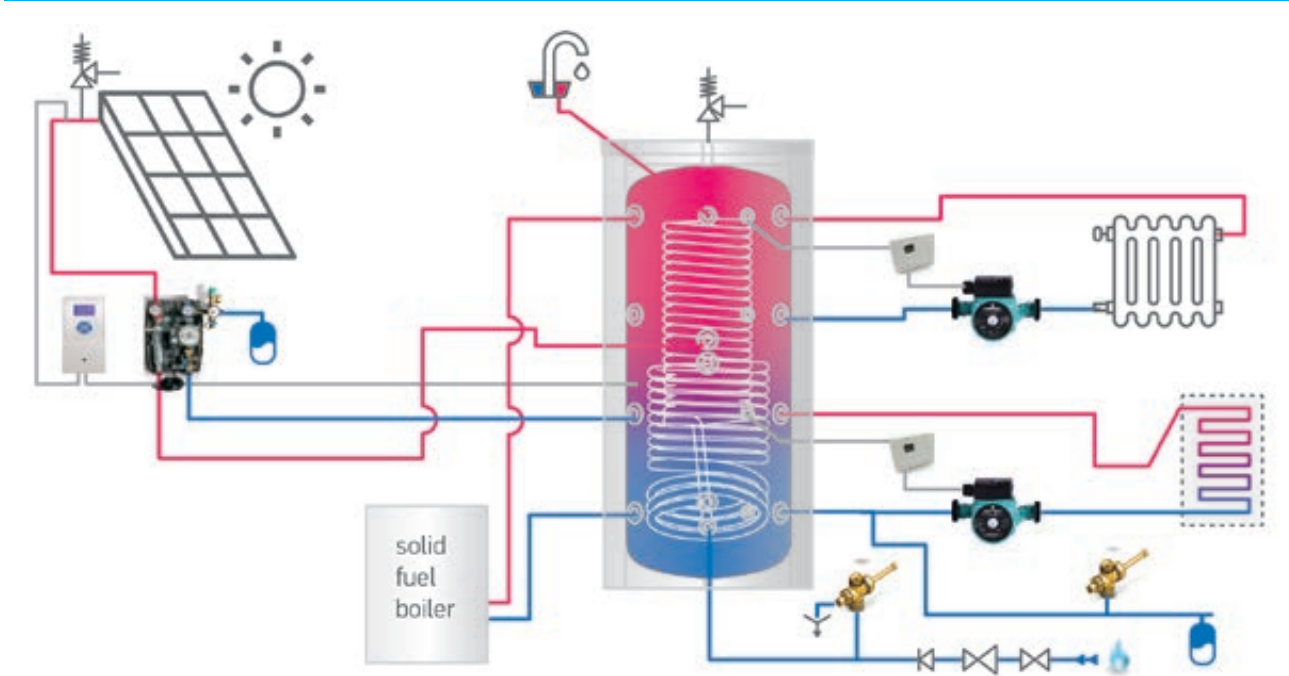
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm	V 10/6 S2 800 95 HYG 5.5 HE C	V 10/9 S2 1000 95 HYG5.5 HE C
h	mm	1932
b	mm	1051
e	mm	1422
g	mm	1164
i	mm	964
j	mm	409
k	mm	290
q	mm	1500
r	mm	1120
s	mm	740
t	mm	360
R	mm	1967
Ø C	mm	990
Ø D	mm	790

MODEL		V 11S 500 75 HYG 5.0	V 10 S 800 95 HYG5.5 HE C	V 10 S 1000 95 HYG5.5 HE C
Art. number	Nº	303534	303825	303822
Nominal capacity buffer tank	L	458	748	838
Net weight	kg	150	188	214
Insulation	mm	50	100	100
Heat exchanger surface S1	m²	1.65	2.23	2.23
Surface hygienic heat exchanger	m²	5	5.5	5.5
Heat exchanger content S1	L	10	19.2	19.2
Nominal volume hygienic heat exchanger	L	26	28	28
Heat loss ΔT 45K	W	95	128	136
Energy efficiency class		C	C	C
Maximum operational temperature buffer tank	°C	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110
Maximum operational temperature hygienic heat exchanger	°C	95	95	95
Rated pressure buffer tank	bar	3	3	3
Rated pressure of the heat exchanger	bar	6	6	6
Rated pressure hygienic heat exchanger	bar	10	10	10

Highly-efficient INSU PRO insulation upon request for the models 800 L and 1000 L.

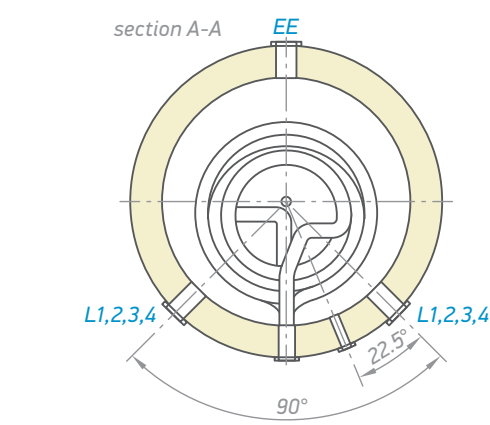
INSTALLATION AND CONNECTION SCHEME



MODEL		V 11S 500 75 HYG 5.0	V 10 S 800 95 HYG5.5 HE C V 10 S 1000 95 HYG5.5 HE C
CW	cold water inlet	G 1" B	G 1½" B
HW	hot water outlet	G 1" B	G 1½" B
IS1	heat exchanger inlet	G 1" B	G 1½" B
OS1	heat exchanger outlet	G 1" B	G 1½" B
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"
AV	opening for air ventilation	G 1½"	G 1½"
L1-2-3-4	levels 1-2-3-4	G 1½"	G 1½"

Thread designations according to EN ISO 228-1/

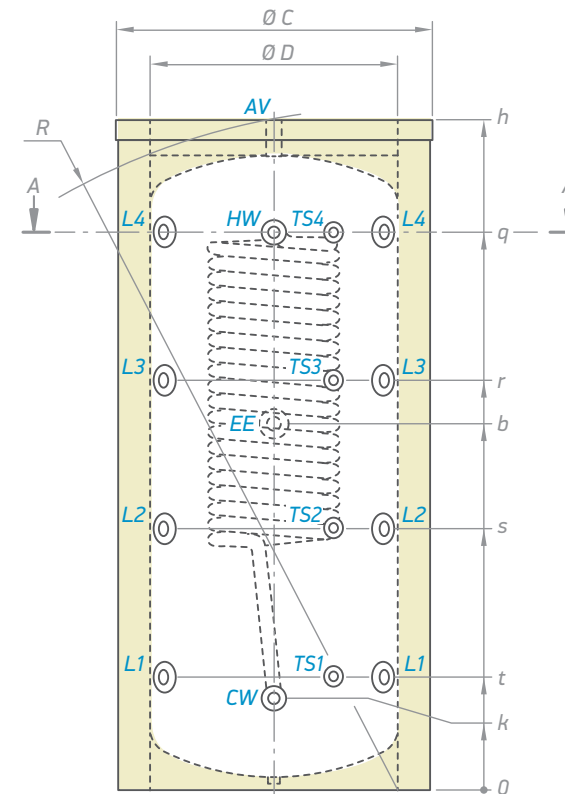
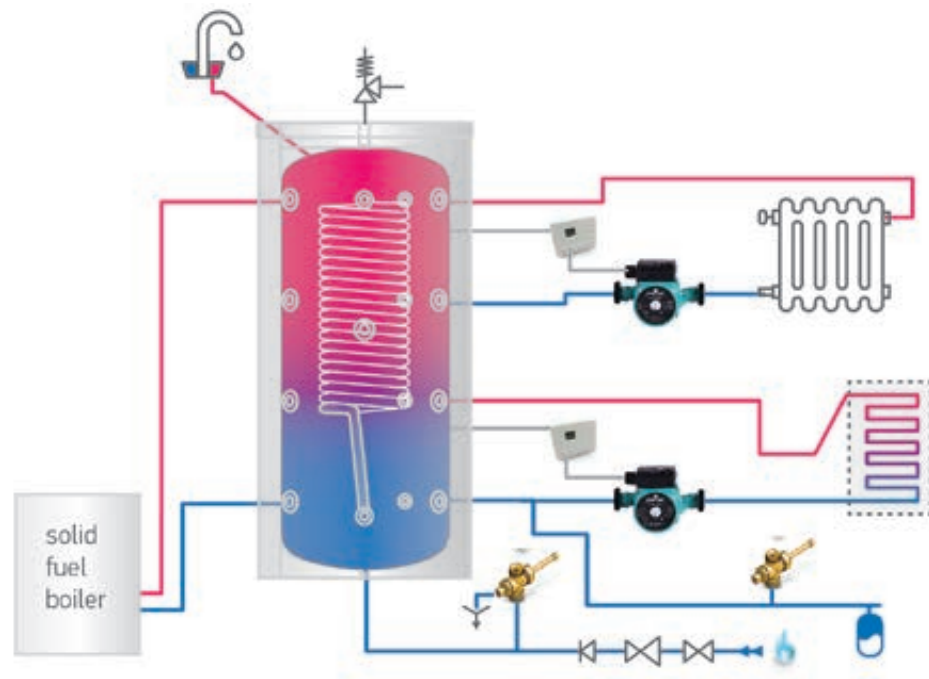
Dimensions ±5 mm		V 11S 500 75 HYG 5.0	V 10 S 800 95 HYG5.5 HE C	V 10 S 1000 95 HYG5.5 HE C
h	mm	1677	1932	2132
b	mm	820	1051	1090
i	mm	780	964	966
j	mm	307	409	412
k	mm	212	290	290
q	mm	1450	1500	1775
r	mm	1360	1120	1304
s	mm	624	740	833
t	mm	212	360	362
R	mm	1825	1967	2167
Ø C	mm	750	990	990
Ø D	mm	650	790	790



MODEL		V 500 75 HYG 5.0	V 800 95 HYG 5.5 C	V 1000 95 HYG 5.5 C
Art. number	Nº	303530	303844	303821
Nominal capacity buffer tank	L	470	757	874
Net weight	kg	130	143	163
Insulation	mm	50	100	100
Surface hygienic heat exchanger	m²	5	5.5	5.5
Nominal volume hygienic heat exchanger	L	26	28	28
Heat loss ΔT 45K	W	95	128	136
Energy efficiency class		C	C	C
Maximum operational temperature buffer tank	°C	95	95	95
Maximum operational temperature hygienic heat exchanger	°C	95	95	95
Rated pressure of buffer tank	bar	3	3	3
Rated pressure hygienic heat exchanger	bar	10	10	10

Highly-efficient INSU PRO insulation upon request for the models 800 L and 1000 L.

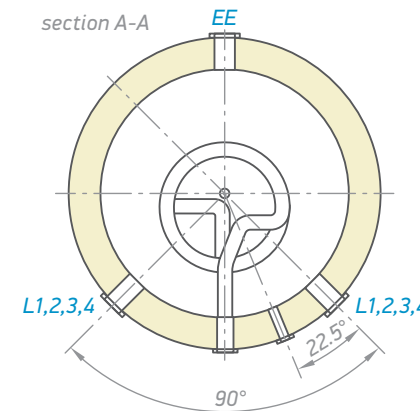
INSTALLATION AND CONNECTION SCHEME



MODEL		V 500 75 HYG 5.0	V 800 95 HYG 5.5 C	V 1000 95 HYG 5.5 C
CW	cold water inlet	G 1" B	G 1¼" B	G 1¼" B
HW	hot water outlet	G 1" B	G 1¼" B	G 1¼" B
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"	G 1½"
AV	opening for air ventilation	G 1½"	G ¾"	G ¾"
L1-2-3-4	levels 1-2-3-4	G 1½"	G 1½"	G 1½"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 500 75 HYG 5.0	V 800 95 HYG 5.5 C	V 1000 95 HYG 5.5 C
h	mm	1677	1932	2132
b	mm	820	1051	1090
k	mm	212	290	290
q	mm	1450	1500	1775
r	mm	1360	1120	1304
s	mm	624	740	833
t	mm	212	360	362
R	mm	1825	1967	2167
Ø C	mm	750	990	990
Ø D	mm	650	790	790



COMBINED BUFFER TANKS WITH INTEGRATED ENAMELED TANKS (TANK-IN-TANK)

ADVANTAGES



COMBINED BUFFER TANKS WITH INTEGRATED ENAMELED TANKS FOR DOMESTIC HOT WATER

Tank-in-tank models with a buffer tanks from 600 L to 1500 L and built-in enameled tanks for domestic hot water production from 150 L to 300 L:

- with two heat exchangers around the enameled tank
- with one heat exchanger around the enameled tank
- without heat exchangers

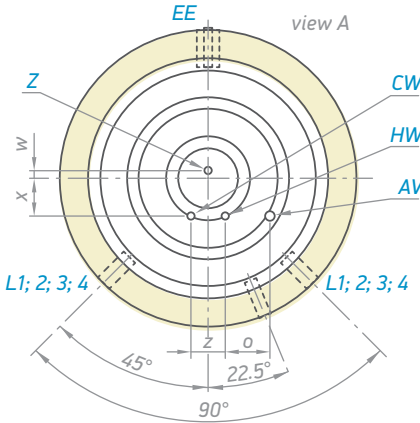
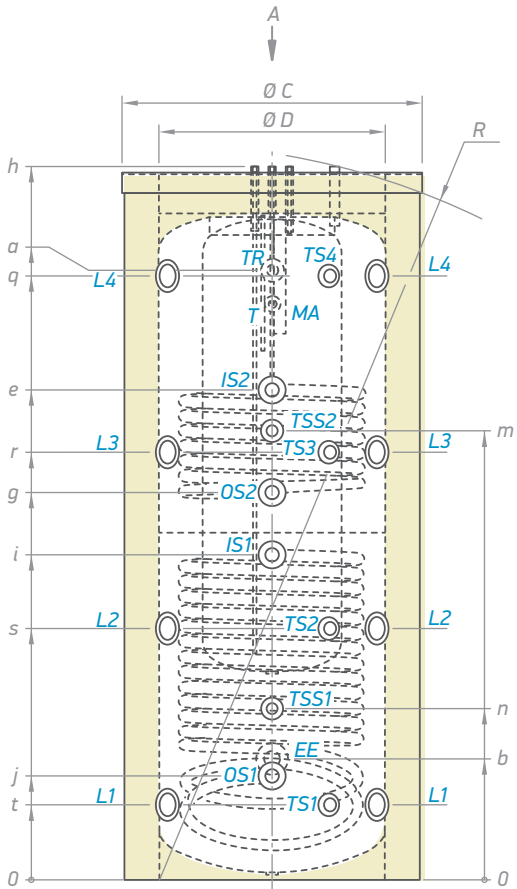
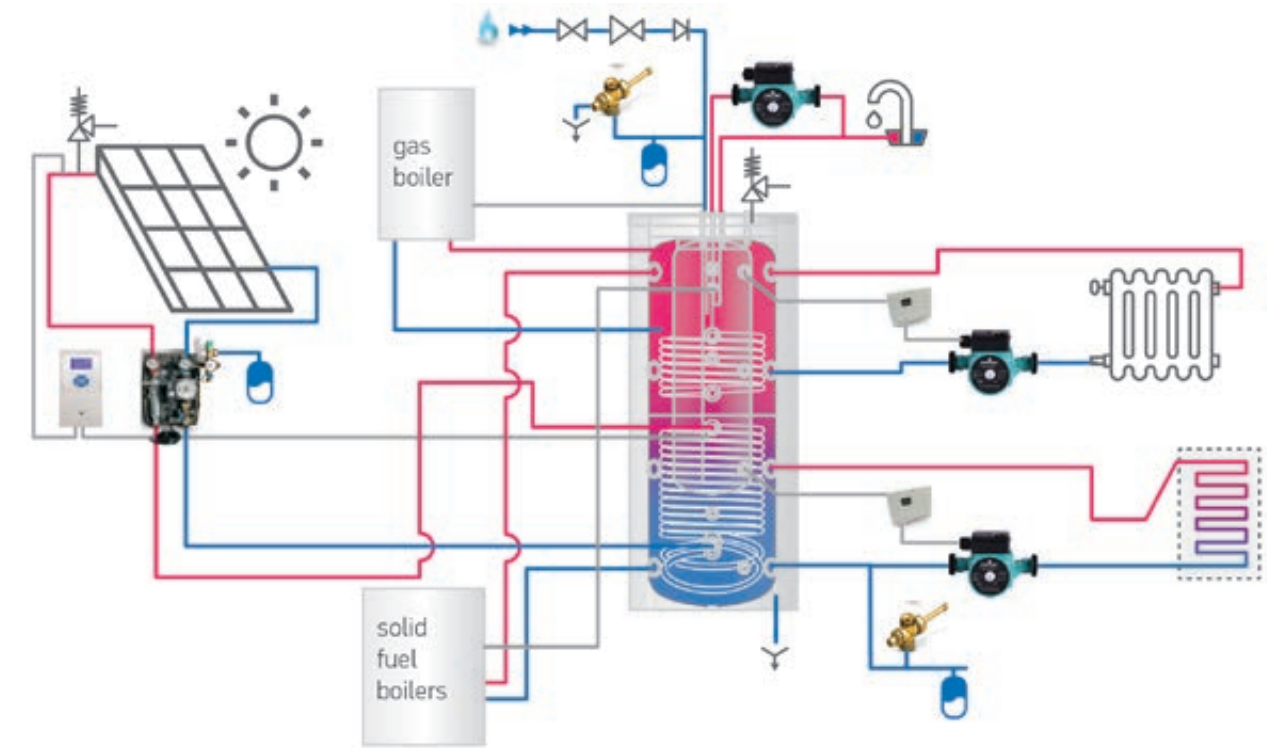
Advantages:

- Durable enamel coating of inner tank.
- 3 bar outer buffer tank with four heat levels for various heating applications.
- Highly-efficient INSU PRO insulation upon request for the models from 800 L to 1500 L.
- Thermoindicator.
- Service opening for easy inspection.
- Heating element installation option.
- Thermoregulator installation option.
- Thermoprobe installation option.
- Heat exchangers with larger surface.

MODEL		V 15/7 S2 600 81 EV 150 40 C	V 12/9 S2 800 95 EV 200 45 C	V 15/9 S2 1000 95 EV 200 45 C	V 12/8 S2 1500 120 EV 300 55 C
Art. number	Nº	303868	303864	303877	303861
Actual capacity buffer tank	L	408	569	655	1109
Actual capacity hot water tank	L	151	191	191	296
Net weight	kg	203	264	298	390
Insulation	mm	100	100	100	100
Heat exchanger surface S1	m²	2.25	2.89	3.3	3.47
Heat exchanger surface S2	m²	1.04	1.54	1.54	2.3
Heat exchanger content S1	L	13.7	26.2	29	31.4
Heat exchanger content S2	L	6.4	9.4	9.4	20.5
Heat loss ΔT 45K	W	116	128	135	158
Energy efficiency class	C	C	C	C	C
Maximum operational temperature buffer tank	°C	95	95	95	95
Maximum operational temperature hot water tank	°C	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110
Rated pressure buffer tank	bar	3	3	3	3
Rated pressure hot water tank	bar	10	10	10	10
Rated pressure of the heat exchanger	bar	6	6	6	6

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 1500 L.

INSTALLATION AND CONNECTION SCHEME



MODEL		V 15/7 S2 600 81 EV 150 40 C	V 12/9 S2 800 95 EV 200 45 C	V 15/9 S2 1000 95 EV 200 45 C	V 12/8 S2 1500 120 EV 300 55 C
CW	cold water inlet	G ½" B	G 1" B	G 1" B	G 1" B
HW	hot water outlet	G ½" B	G 1" B	G 1" B	G 1" B
IS1	heat exchanger inlet	G 1"	G 1½"	G 1½"	G 1½"
IS2	heat exchanger inlet	G 1"	G 1"	G 1½"	G 1½"
OS1	heat exchanger outlet	G 1"	G 1½"	G 1½"	G 1½"
OS2	heat exchanger outlet	G 1"	G 1"	G 1½"	G 1½"
Z	recirculation	G 1½" B	G 1½" B	G 1½" B	G 1½" B
T	thermometer	Ø 14 x 1.5	Ø 14 x 1.5	Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"	G ½"	G ½"	G ½"
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"	G ½"	G ½"	G ½"
TSS1-2	thermo sensor pocket heat exchanger	G ½"	G ½"	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"	G 1½"	G 1½"
AV	opening for air ventilation	G ½"	G ½"	G ½"	G ½"
L1-2-3-4	levels 1-2-3-4	G 1½"	G 1½"	G 1½"	G 2" B
MA	Magnesium anode 1	M8	M8	M8	M8

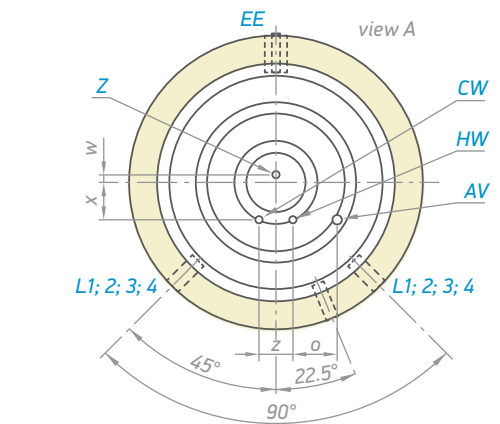
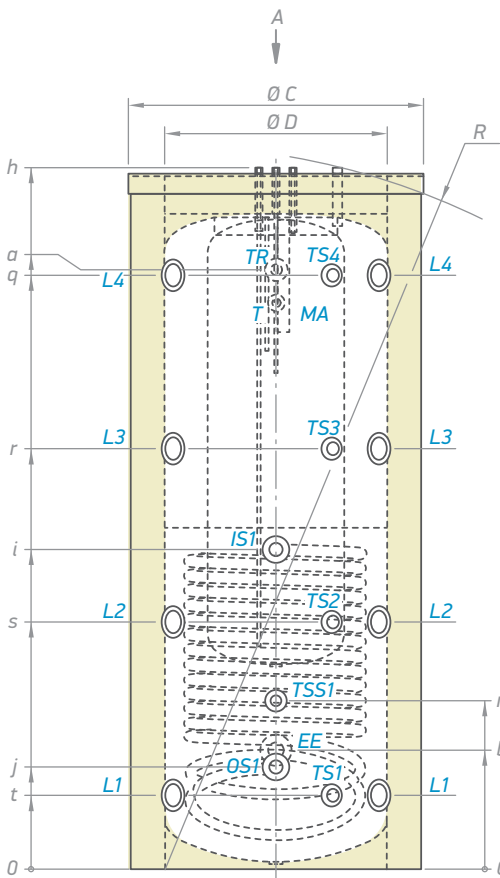
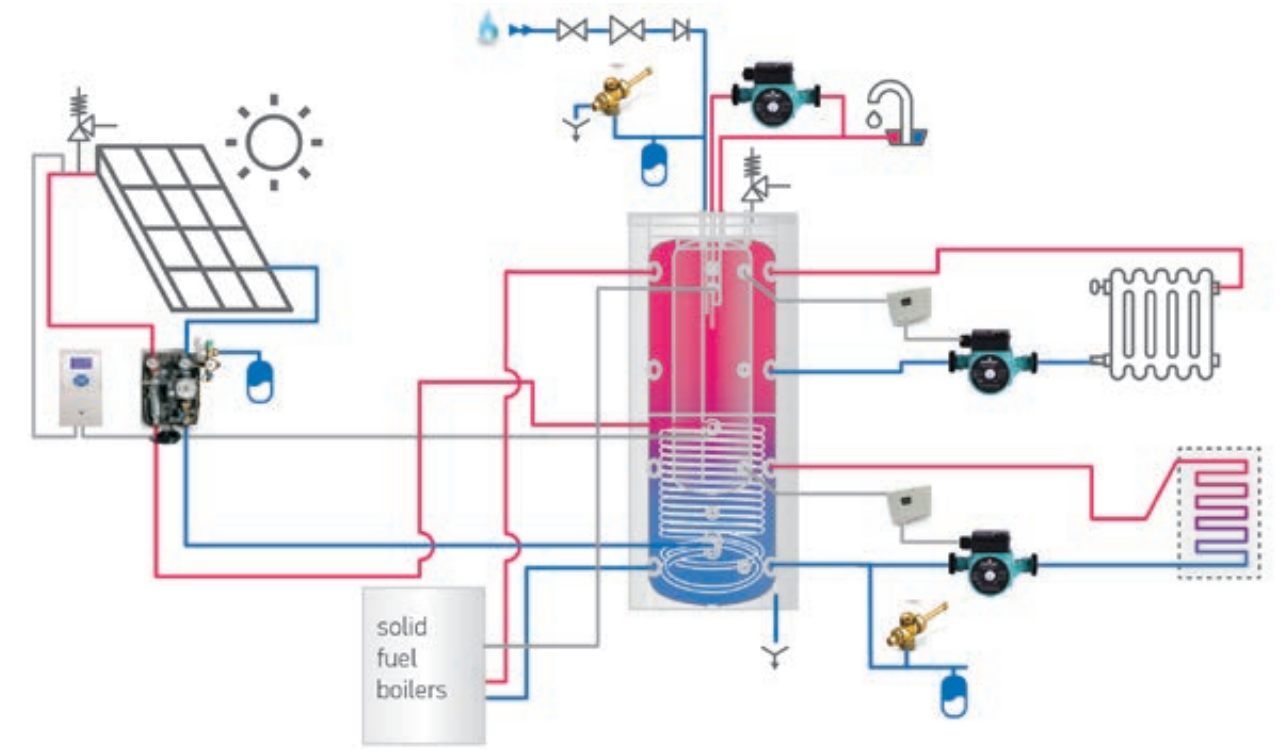
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 15/7 S2 600 81 EV 150 40 C	V 12/9 S2 800 95 EV 200 45 C	V 15/9 S2 1000 95 EV 200 45 C	V 12/8 S2 1500 120 EV 300 55 C
h	mm	2065	1956	2141	2216
a	mm	1747	1600	1795	1740
b	mm	307	400	400	470
e	mm	1408	1509	1747	1733
g	mm	1107	1122	1360	1293
i	mm	934	1022	1187	1087
j	mm	289	362	362	427
m	mm	1257	1387	1502	1461
n	mm	489	582	582	647
o	mm	130	150	150	150
q	mm	1738	1502	1775	1726
r	mm	1230	1122	1304	1293
s	mm	722	742	833	860
t	mm	214	362	362	427
w	mm	22	22	22	22
x	mm	110	100	100	110
z	mm	100	100	100	100
R	mm	2121	2045	2236	2238
Ø C	mm	850	990	990	1200
Ø D	mm	650	790	790	1000

MODEL		V 15 S 600 81 EV 150 40 C	V 12 S 800 95 EV 200 45 C	V 15 S 1000 95 EV 200 45 C	V 12 S 1500 120 EV 300 55 C
Art. number	Nº	303866	303849	303876	303846
Capacity buffer tank	L	416	579	666	1134
Capacity hot water tank	L	151	191	191	296
Net weight	kg	188	241	274	353
Insulation	mm	100	100	100	100
Heat exchanger surface S1	m²	2.25	2.89	3.3	3.47
Heat exchanger capacity S1	L	13.7	26.2	29	31.4
Heat losses ΔT 45K	W	116	128	136	158
Energy efficiency class	C	C	C	C	C
Maximum operational temperature buffer tank	°C	95	95	95	95
Maximum operational temperature hot water tank	°C	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110
Rated pressure buffer tank	bar	3	3	3	3
Rated pressure hot water tank	bar	10	10	10	10
Rated pressure of the heat exchanger	bar	6	6	6	6

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 1500 L.

INSTALLATION AND CONNECTION SCHEME



MODEL		V 15 S 600 81 EV 150 40 C	V 12 S 800 95 EV 200 45 C V 15 S 1000 95 EV 200 45 C	V 12 S 1500 120 EV 300 55 C
CW	cold water inlet	G ½" B	G 1" B	G 1" B
HW	hot water outlet	G ½" B	G 1" B	G 1" B
IS1	heat exchanger inlet	G 1"	G 1½" B	G 1½" B
OS1	heat exchanger outlet	G 1"	G 1½" B	G 1½" B
Z	recirculation	G ½" B	G ½" B	G ½" B
T	thermometer	Ø 14 x 1.5	Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"	G ½"	G ½"
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"	G ½"	G ½"
TSS1	thermo sensor pocket heat exchanger	G ½"	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"	G 1½"
AV	opening for air ventilation	G ½"	G ½"	G ½"
L1-2-3-4	levels 1-2-3-4	G 1½"	G 1½"	G 2" B
MA	Magnesium anode 1	M8	M8	M8

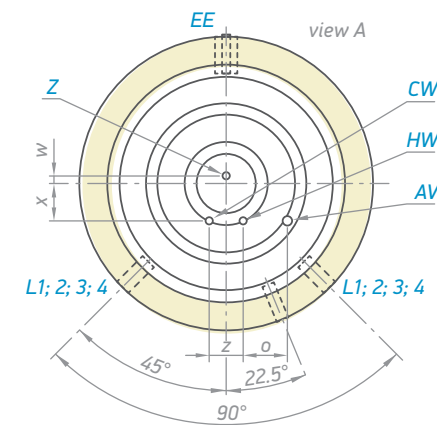
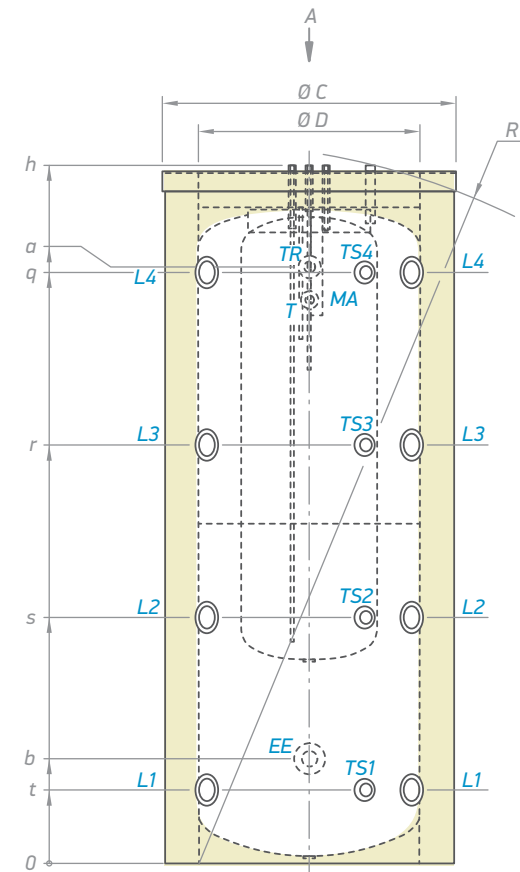
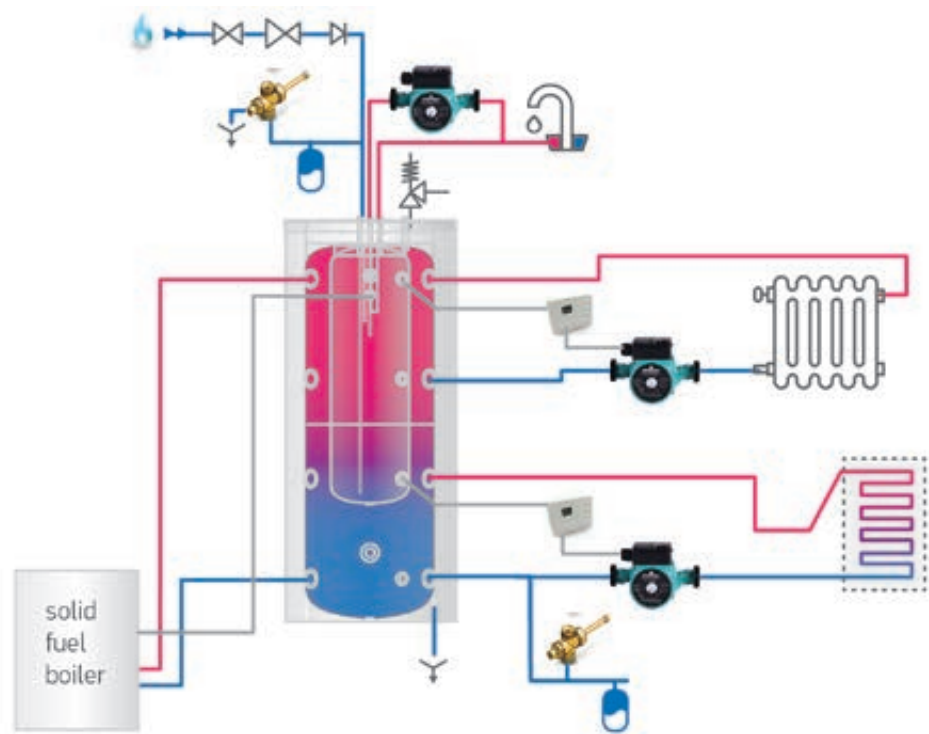
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 15 S 600 81 EV 150 40 C	V 12 S 800 95 EV 200 45 C	V 15 S 1000 95 EV 200 45 C	V 12 S 1500 120 EV 300 55 C
h	mm	2065	1956	2141	2216
a	mm	1747	1600	1795	1740
b	mm	307	400	400	470
i	mm	934	1022	1187	1087
j	mm	289	362	362	427
n	mm	489	582	582	647
o	mm	130	150	150	150
q	mm	1738	1502	1775	1726
r	mm	1230	1122	1304	1293
s	mm	722	742	833	860
t	mm	214	362	362	427
w	mm	22	22	22	22
x	mm	110	100	100	110
z	mm	100	100	100	100
R	mm	2121	2045	2236	2238
Ø C	mm	850	990	990	1200
Ø D	mm	650	790	790	1000

MODEL		V 600 81 EV 150 40 C	V 800 95 EV 200 45 C	V 1000 95 EV 200 45 C	V 1500 120 EV 300 55 C
Art. number	Nº	303871	303874	303875	303869
Capacity buffer tank	L	433	608	702	1170
Capacity hot water tank	L	151	191	191	296
Net weight	kg	161	193	220	295
Insulation	mm	100	100	100	100
Heat losses ΔT 45K	W	116	128	136	158
Energy efficiency class		C	C	C	C
Maximum operational temperature buffer tank	°C	95	95	95	95
Maximum operational temperature hot water tank	°C	95	95	95	95
Rated pressure buffer tank	bar	3	3	3	3
Rated pressure hot water tank	bar	10	10	10	10

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 1500 L.

INSTALLATION AND CONNECTION SCHEME



MODEL		V 600 81 EV 150 40 C	V 800 95 EV 200 45 C V 1000 95 EV 200 45 C	V 1500 120 EV 300 55 C
CW	cold water inlet	G ½" B	G 1" B	G 1" B
HW	hot water outlet	G ½" B	G 1" B	G 1" B
Z	recirculation	G ½" B	G ½" B	G ½" B
T	thermometer	Ø 14 x 1,5	Ø 14 x 1,5	Ø 14 x 1,5
TR	opening for thermoregulator	G ½"	G ½"	G ½"
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"	G 1½"
AV	opening for air ventilation	G ½"	G ½"	G ½"
L1-2-3-4	levels 1-2-3-4	G 1½"	G 1½"	G 2" B
MA	Magnesium anode 1	M8	M8	M8

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 600 81 EV 150 40 C	V 800 95 EV 200 45 C	V 1000 95 EV 200 45 C	V 1500 120 EV 300 55 C
h	mm	2065	1956	2141	2216
a	mm	1747	1600	1795	1740
b	mm	307	400	400	470
o	mm	130	150	150	150
q	mm	1738	1502	1775	1726
r	mm	1230	1122	1304	1293
s	mm	722	742	833	860
t	mm	214	362	362	427
w	mm	22	22	22	22
x	mm	110	100	100	110
z	mm	100	100	100	100
R	mm	2121	2045	2236	2238
Ø C	mm	850	990	990	1200
Ø D	mm	650	790	790	1000

BUFFER TANKS WITH TWO, ONE AND WITHOUT HEAT EXCHNAGERS

ADVANTAGES



BUFFER TANKS FOR HEATING SYSTEMS

A wide range of buffer tanks for operation in closed heating systems.

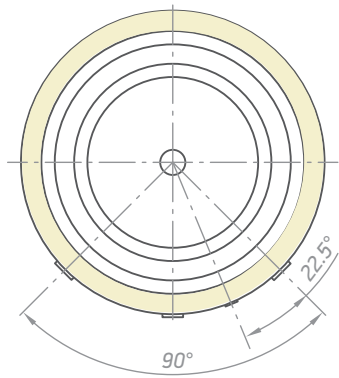
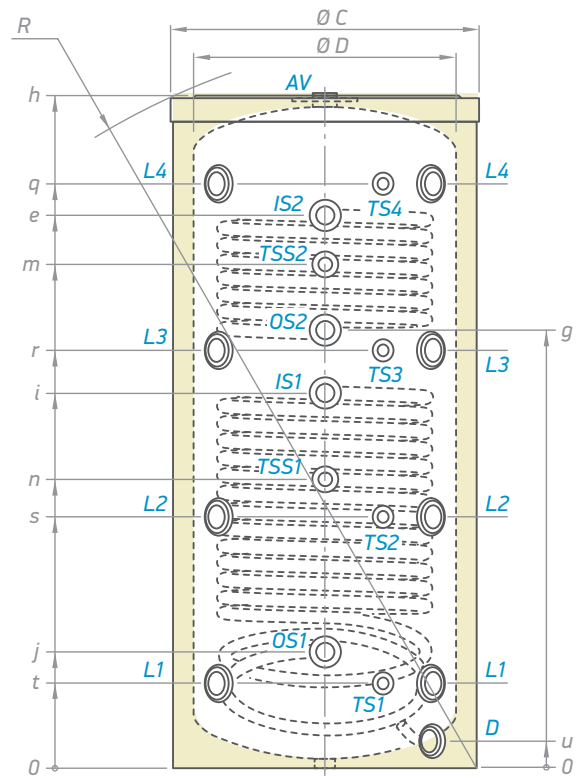
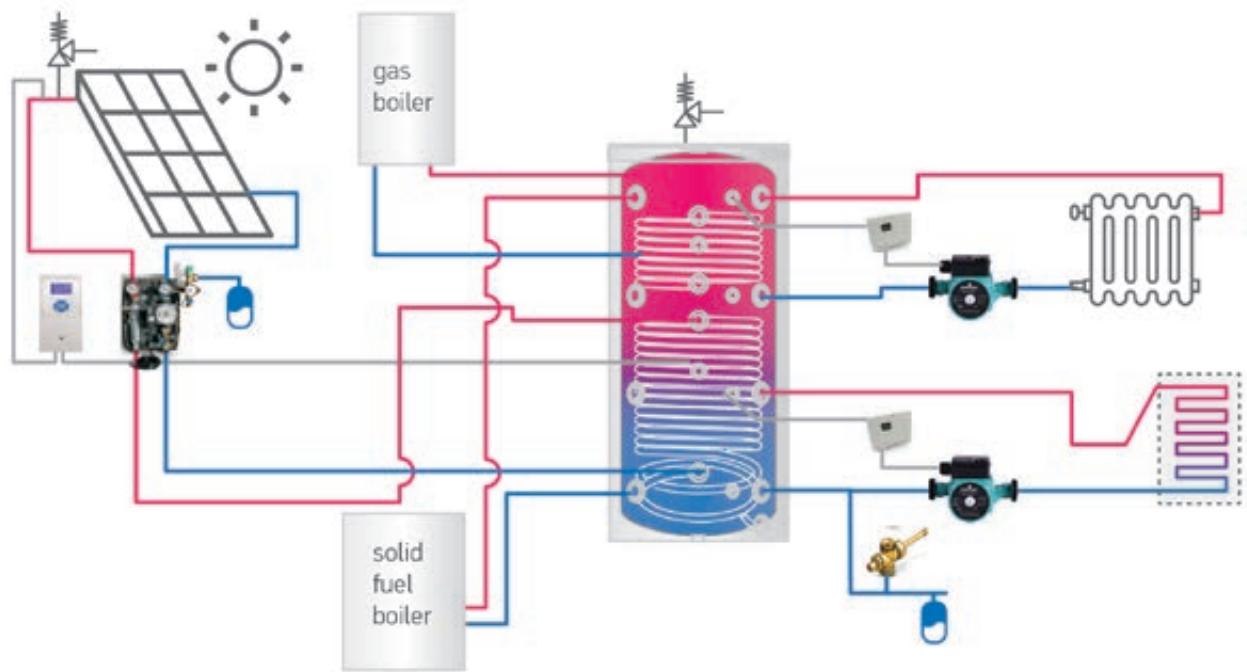
The range includes models from 200 L to 2000 L with two, one or without heat exchangers:

Advantages:

- Heating buffer storage tank with four heat layers for various heating applications.
- Four thermoprobe installation positions.
- Highly efficient CFC free PU foam insulation for the models of 200 L to 500 L.
- Highly efficient INSU PRO soft insulation upon request for the models from 800 L to 2000 L.
- Heat exchangers with a larger surface.
- All models with a hard PU foam insulation are suitable for active cooling applications.

MODEL		V 11/5 S2 400 75 F42 P6	V15/7 S2 500 75 F42 P6
Art. number	Nº	300613	300625
Capacity	L	388	472
Net weight	kg	140	149.5
Insulation (rigid PU)	mm	50	50
Heat exchanger surface S1	m²	1.65	2.25
Heat exchanger surface S2	m²	0.76	1.04
Heat exchanger capacity S1	L	10	13.7
Heat exchanger capacity S2	L	4.6	6.4
Heat losses ΔT 45K	W	91	95
Energy efficiency class		C	C
Maximum operational temperature	°C	95	95
Maximum operational temperature of heat exchanger	°C	100	110
Rated pressure	bar	3	3
Rated pressure of the heat exchanger	bar	6	6

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

IS1	heat exchanger inlet	G 1"
IS2	heat exchanger inlet	G 1"
OS1	heat exchanger outlet	G 1"
OS2	heat exchanger outlet	G 1"
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"
TSS1	thermo sensor pocket heat exchanger	G ½"
TSS2	thermo sensor pocket heat exchanger	G ½"
AV	opening for air ventilation	G 1½"
D	drainage	G ¾"
L1-2-3-4	levels 1-2-3-4	G 1½"

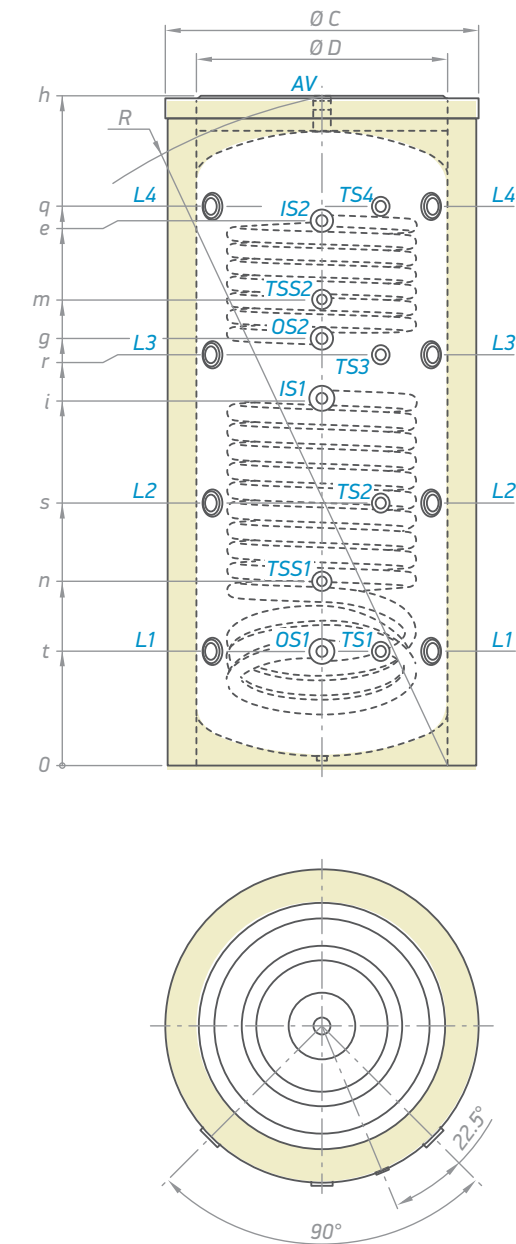
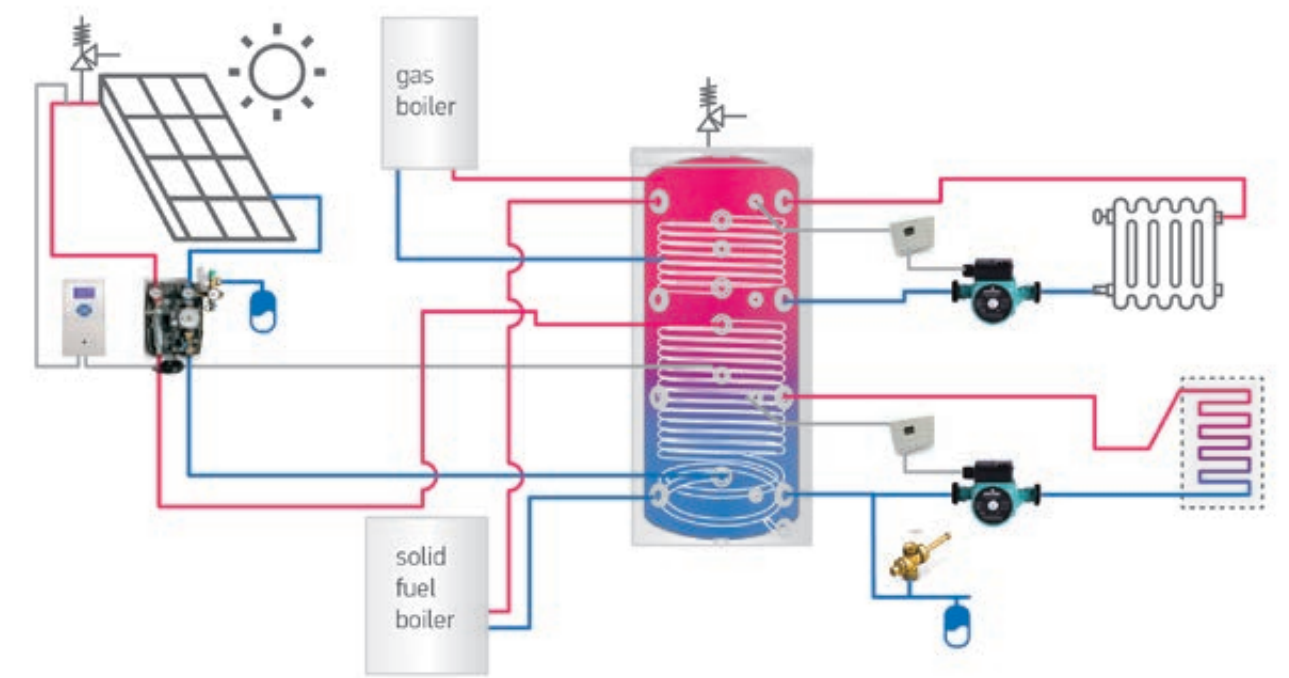
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 11/5 S2 400 75 F42 P6	V15/7 S2 500 75 F42 P6
h	mm	1411	1674
e	mm	1079	1349
g	mm	864	1048
i	mm	781	934
j	mm	308	289
m	mm	1002	1220
n	mm	465	719
q	mm	1166	1450
r	mm	850	1038
s	mm	534	626
t	mm	218	214
u	mm	68	67
R	mm	1592	1826
Ø C	mm	750	750
Ø D	mm	650	650

MODEL		V 12/9 S2 800 95 F43 P6 C	V 15/9 S2 1000 95 C	V 12/8 S2 1500 120 F45 P6 C	V 15/9 S2 2000 130 F46 P6 C
Art. number	Nº	303891	303900	303890	303870
Capacity	L	766	855	1415	1822
Net weight	kg	191	206	308	405
Insulation	mm	100	100	100	100
Heat exchanger surface S1	m²	2.89	3.45	3.47	4.5
Heat exchanger surface S2	m²	1.54	1.31	2.3	2.7
Heat exchanger capacity S1	L	26.2	31.3	31.4	41.6
Heat exchanger capacity S2	L	9.4	7.9	20.5	25.2
Heat losses ΔT 45K	W	128	136	158	183
Energy efficiency class	C	C	C	C	C
Maximum operational temperature	°C	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110
Rated pressure	bar	3	3	3	3
Rated pressure of the heat exchanger	bar	6	6	6	6

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 2000 L.

INSTALLATION AND CONNECTION SCHEME



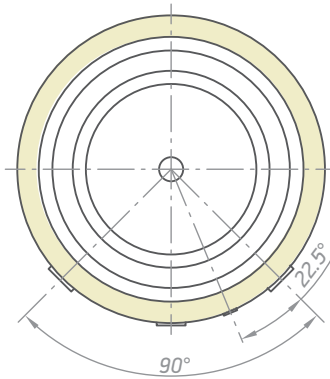
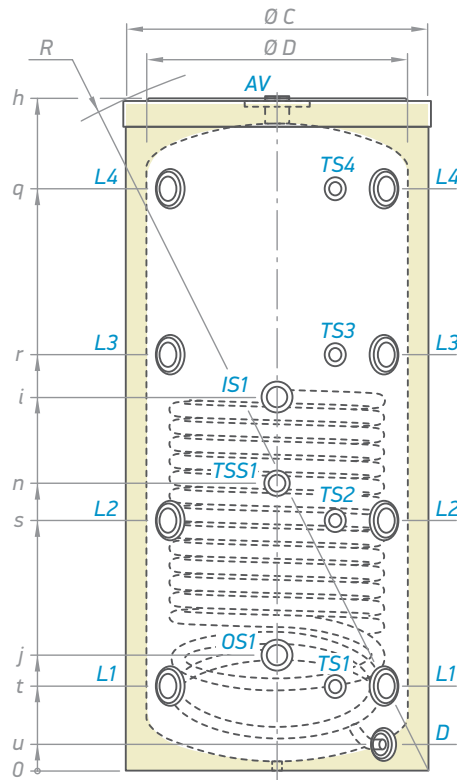
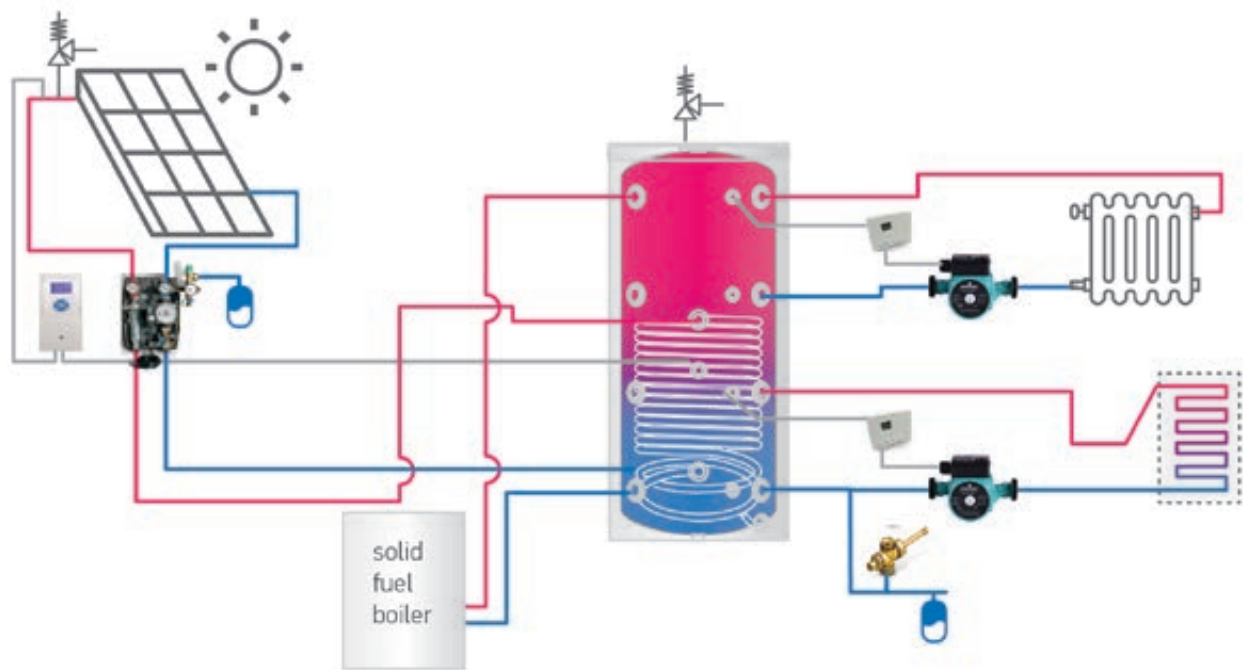
MODEL		V 12/9 S2 800 95 F43 P6 C	V 12/8 S2 1500 120 F45 P6 C	V 15/9 S2 1000 95 C	V 15/9 S2 2000 130 F46 P6 C
IS1-2	heat exchangers inlet	G 1½" B	G 1½" B		
OS1-2	heat exchangers outlet	G 1½" B	G 1½" B		
TS1-2-3-4	thermo sensor pocket levels	G ½"	G ½"		
TSS1-2	thermo sensor pocket heat exchanger	G ½"	G ½"		
AV	opening for air ventilation	G 1½"	G 2" B		
L1-2-3-4	levels 1-2-3-4	G 1½"	G 2" B		

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 12/9 S2 800 95 F43 P6 C	V 15/9 S2 1000 95 C	V 12/8 S2 1500 120 F45 P6 C	V 15/9 S2 2000 130 F46 P6 C
h	mm	1947	2132	2220	2413
e	mm	1500	1774	1726	1896
g	mm	1120	1303	1293	1412
i	mm	1021	1186	1087	1271
m	mm	1388	1501	1461	1565
n	mm	581	581	647	646
q	mm	1508	1746	1733	1903
r	mm	1120	1360	1293	1412
s	mm	740	832	860	929
t	mm	360	360	427	446
R	mm	1960	2155	2265	2481
Ø C	mm	990	990	1200	1300
Ø D	mm	790	790	1000	1100

MODEL		V 9S 200 60	V 12S 300 65	V 11S 400 75 F42 P5	V 15S 500 75 F42 P5
Art. number	Nº	302172	302173	300612	300624
Capacity	L	195	283	394	480
Net weight	kg	55	82	131	138
Insulation (rigid PU)	mm	50	50	50	50
Heat exchanger surface S1	m²	0.96	1.45	1.65	2.25
Heat exchanger capacity S1	L	5.8	8.8	10	13.7
Heat losses ΔT 45K	W	59	68	91	95
Energy efficiency class		B	B	C	C
Maximum operational temperature	°C	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110
Rated pressure	bar	3	3	3	3
Rated pressure of the heat exchanger	bar	6	6	6	6

INSTALLATION AND CONNECTION SCHEME



MODEL		V 9S 200 60 V 12S 300 65	V 11S 400 75 F42 P5 V 15S 500 75 F42 P5
IS1	heat exchanger inlet	G 1"	G 1"
OS1	heat exchanger outlet	G 1"	G 1"
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"	G ½"
TSS1	thermo sensor pocket heat exchanger	-	G ½"
AV	opening for air ventilation	G 1½"	G 1½"
D	drainage	G ¾" B	G ¾" B
L1-2-3-4	levels 1-2-3-4	G 1½"	G 1½"

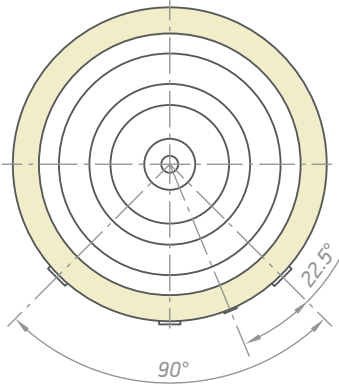
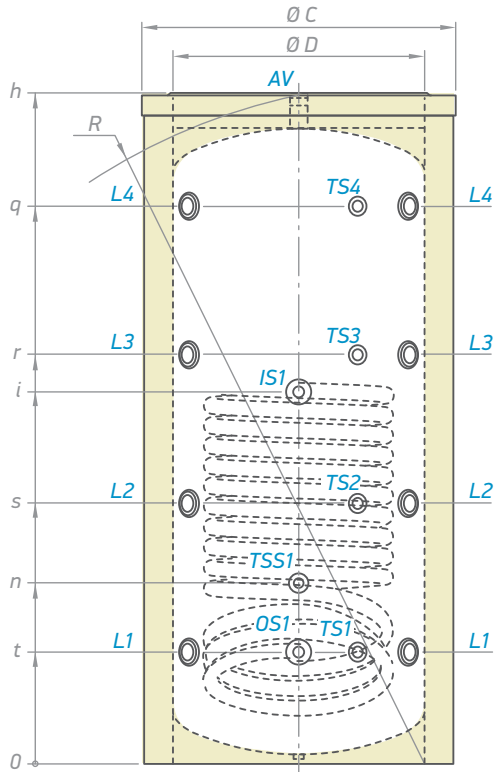
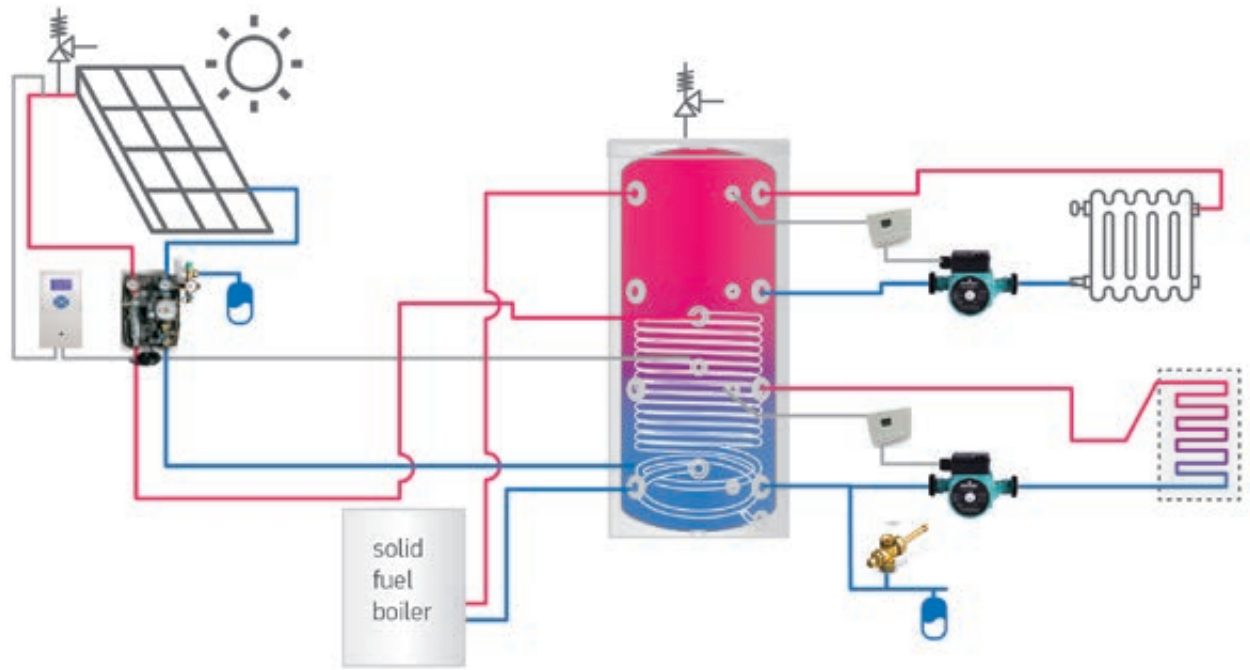
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 9S 200 60	V 12S 300 65	V 11S 400 75 F42 P5	V 15S 500 75 F42 P5
h	mm	1202	1422	1406	1674
i	mm	655	817	780	719
j	mm	268	301	307	289
n	mm			464	719
q	mm	995	1208	1165	1450
r		730	873	849	1038
s	mm	465	538	533	626
t		200	203	217	214
u	mm	75	75	75	75
R	mm	1343	1560	1590	1825
Ø C	mm	600	650	750	750
Ø D	mm	500	550	650	650

MODEL		V 12S 800 95 F43 P5 C	V 15S 1000 95 C	V 12S 1500 120 F45 P5 C	V 15S 2000 130 F46 P5 C
Art. number	Nº	303889	303899	303887	303892
Capacity	L	776	866	1439	1853
Net weight	kg	169	198	265	360
Insulation	mm	100	100	100	100
Heat exchanger surface S1	m²	2.89	3.45	3.47	4.5
Heat exchanger capacity S1	L	26.2	31.3	31.4	41.6
Heat losses ΔT 45K	W	128	136	158	183
Energy efficiency class		C	C	C	C
Maximum operational temperature	°C	95	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110	110
Rated pressure	bar	3	3	3	3
Rated pressure of the heat exchanger	bar	6	6	6	6

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 2000 L.

INSTALLATION AND CONNECTION SCHEME



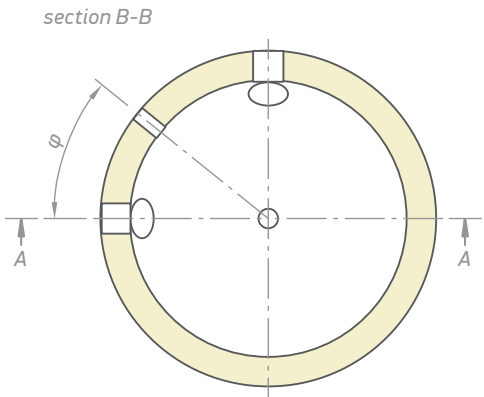
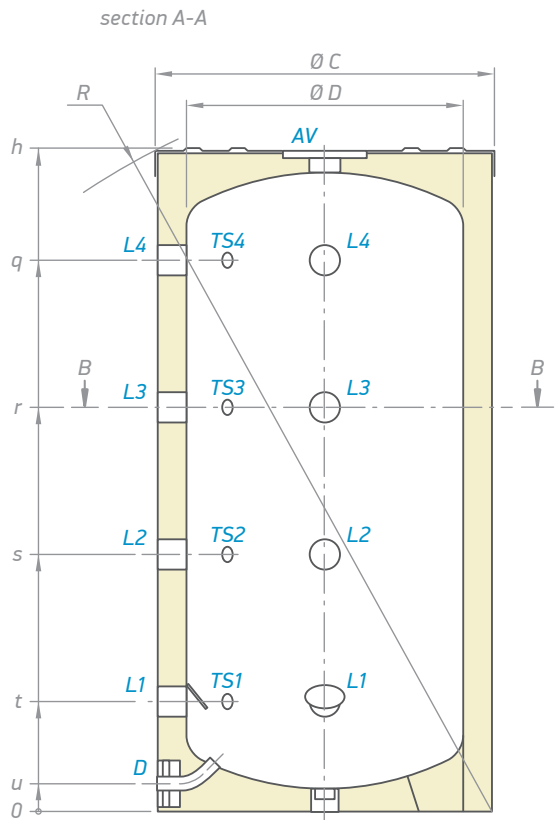
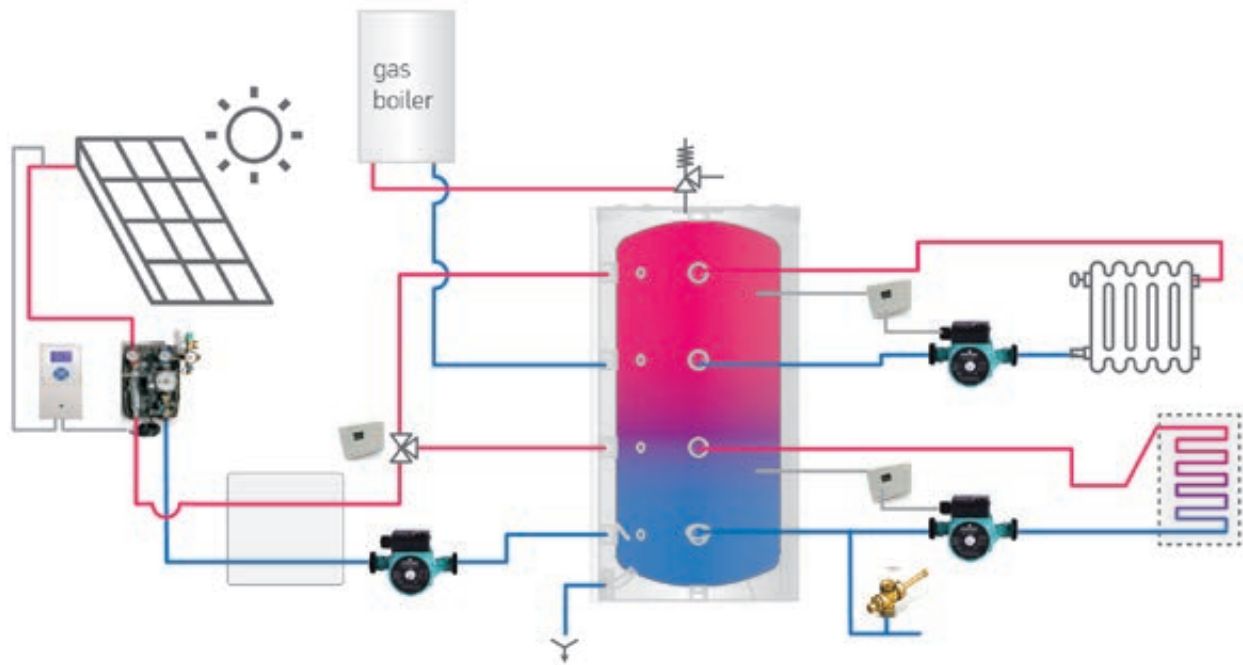
MODEL		V 12S 800 95 F43 P5 C V 15S 1000 95 C	V 12S 1500 120 F45 P5 C V 15S 2000 130 F46 P5 C
IS1	heat exchanger inlet	G 1½" B	G 1½" B
OS1	heat exchanger outlet	G 1½" B	G 1½" B
TS1-2-3-4	thermo sensor pocket levels 1-2-3-4	G ½"	G ½"
TSS1	thermo sensor pocket heat exchanger	G ½"	G ½"
AV	opening for air ventilation	G 1½"	G 2" B
L1-2-3-4	levels 1-2-3-4	G 1½"	G 2" B

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 12S 800 95 F43 P5 C	V 15S 1000 95 C	V 12S 1500 120 F45 P5 C	V 15S 2000 130 F46 P5 C
h	mm	1947	2132	2220	2413
i	mm	1021	1186	1087	1271
j	mm	360	360	427	446
n	mm	581	581	647	646
q	mm	1500	1774	1726	1896
r	mm	1120	1303	1293	1412
s	mm	740	832	860	929
t	mm	360	360	427	446
R	mm	1960	2155	2265	2481
Ø C	mm	990	990	1200	1300
Ø D	mm	790	790	1000	1100

MODEL		V 200 60 F40 P4	V 300 65 F41 P4	V 400 75 F42 P4	V 500 75 F42 P4
Art. number	Nº	300632	300634	300635	300636
Capacity	L	202	294	406	497
Net weight	kg	40	59	113.5	121
Insulation (rigid PU)	mm	50	50	50	50
Heat losses ΔT 45K	W	59	68	91	95
Energy efficiency class		B	B	C	C
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	3	3	3	3

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
TS3	thermo sensor pocket level 3	G ½"
TS4	thermo sensor pocket level 4	G ½"
AV	opening for air ventilation	G 1½"
D	drainage	G ¾"
L1	level 1	G 1½"
L2	level 2	G 1½"
L3	level 3	G 1½"
L4	level 4	G 1½"

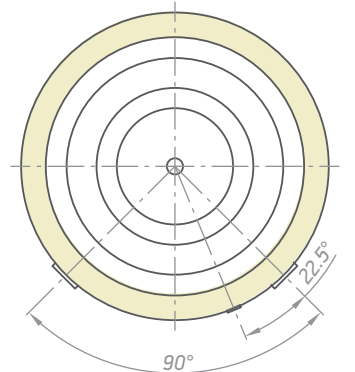
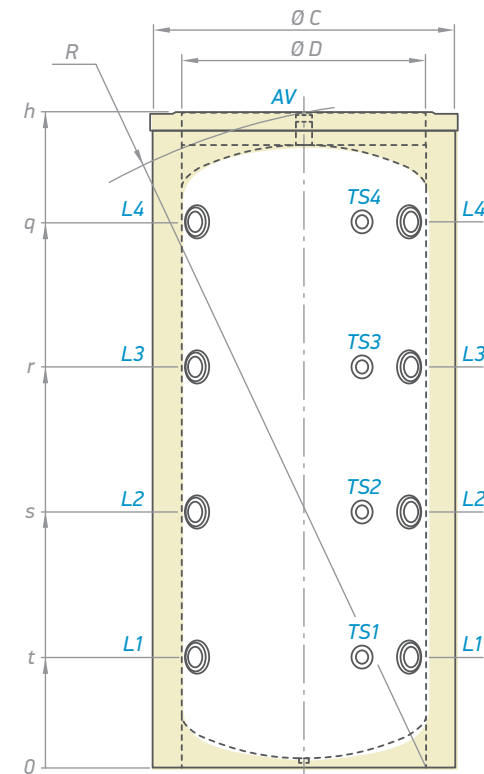
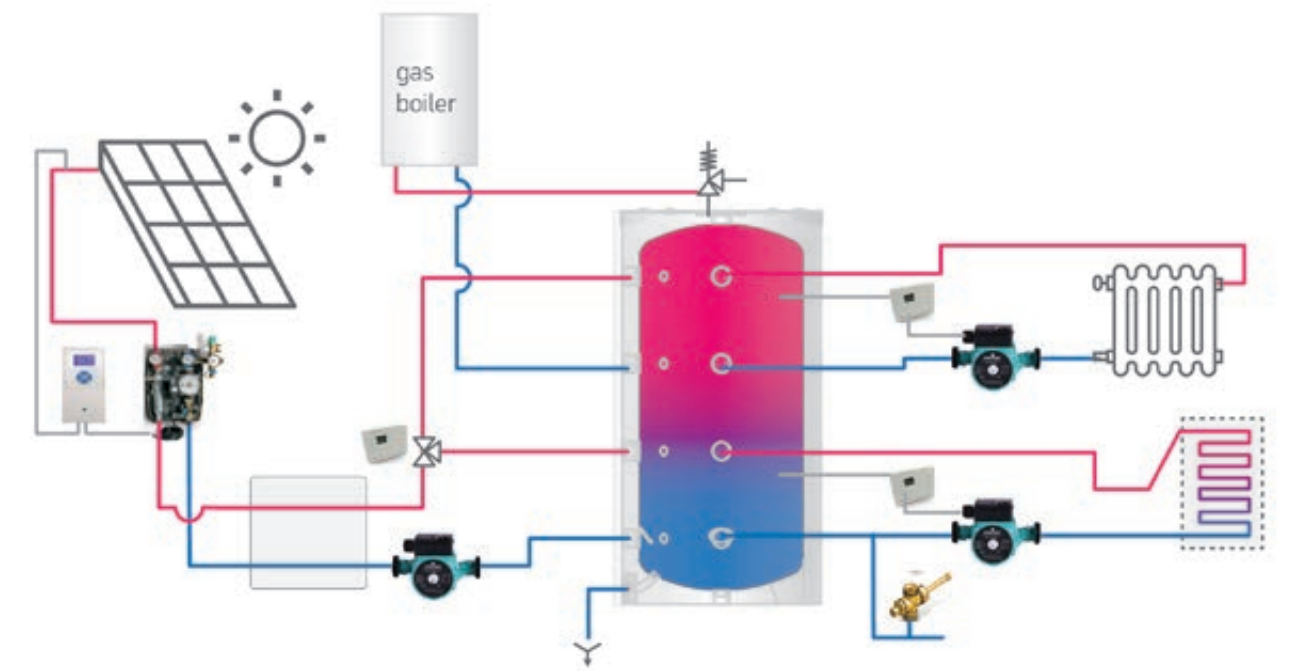
Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 200 60 F40 P4	V 300 65 F41 P4	V 400 75 F42 P4	V 500 75 F42 P4
h	mm	1200	1420	1410	1674
q	mm	993	1208	1165	1451
r	mm	728	873	849	1039
s	mm	463	538	533	627
t	mm	198	203	217	215
u	mm	50	52	67	67
φ	°	45	45	22.5	22.5
R	mm	1345	1563	1590	1823
Ø C	mm	600	650	750	750
Ø D	mm	500	550	650	650

MODEL		V 800 95 F43 P4 C	V 1000 95 C	V 1500 120 F45 P4 C	V 2000 130 F46 P4 C
Art. number	Nº	303896	303897	303893	303894
Capacity	L	805	902	1476	1904
Net weight	kg	115	145	210	284
Insulation	mm	100	100	100	100
Heat losses ΔT 45K	W	128	136	158	183
Energy efficiency class		C	C	C	C
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	3	3	3	3

Highly-efficient INSU PRO insulation upon request for the models from 800 L to 2000 L.

INSTALLATION AND CONNECTION SCHEME



MODEL		V 800 95 F43 P4 C	V 1500 120 F45 P4 C
		V 1000 95 C	V 2000 130 F46 P4 C
TS1	thermo sensor pocket level 1	G ½"	G ½"
TS2	thermo sensor pocket level 2	G ½"	G ½"
TS3	thermo sensor pocket level 3	G ½"	G ½"
TS4	thermo sensor pocket level 4	G ½"	G ½"
AV	opening for air ventilation	G 1½"	G 2" B
L1	level 1	G 1½"	G 2" B
L2	level 2	G 1½"	G 2" B
L3	level 3	G 1½"	G 2" B
L4	level 4	G 1½"	G 2" B

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 800 95 F43 P4 C	V 1000 95 C	V 1500 120 F45 P4 C	V 2000 130 F46 P4 C
h	mm	1947	2132	2220	2413
q	mm	1500	1774	1726	1896
r	mm	1120	1303	1293	1412
s	mm	740	832	860	929
t	mm	360	360	427	446
R	mm	1960	2155	2265	2481
$\varnothing C$	mm	990	990	1200	1300
$\varnothing D$	mm	790	790	1000	1100

BUFFER TANKS WITH ANTICONDENSE SOLUTION

ADVANTAGES



BUFFER TANKS FOR HEAT PUMP SYSTEMS

Buffer tanks specifically developed for integration in heat pump systems.

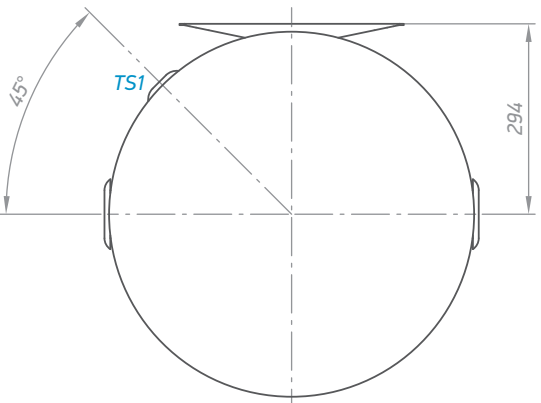
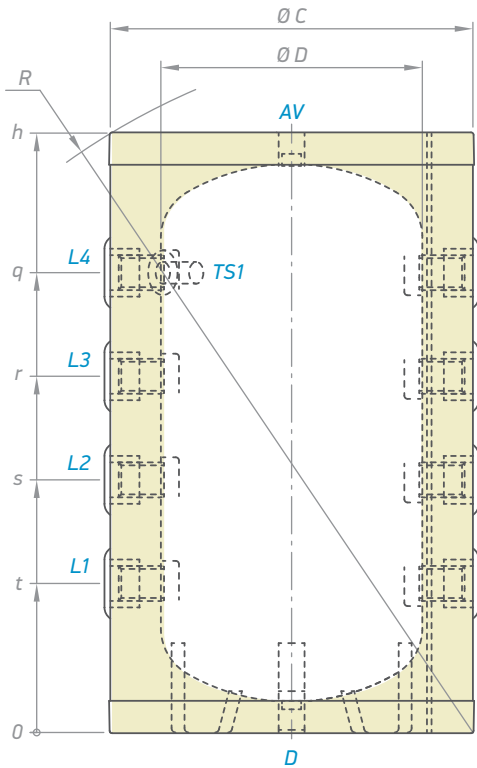
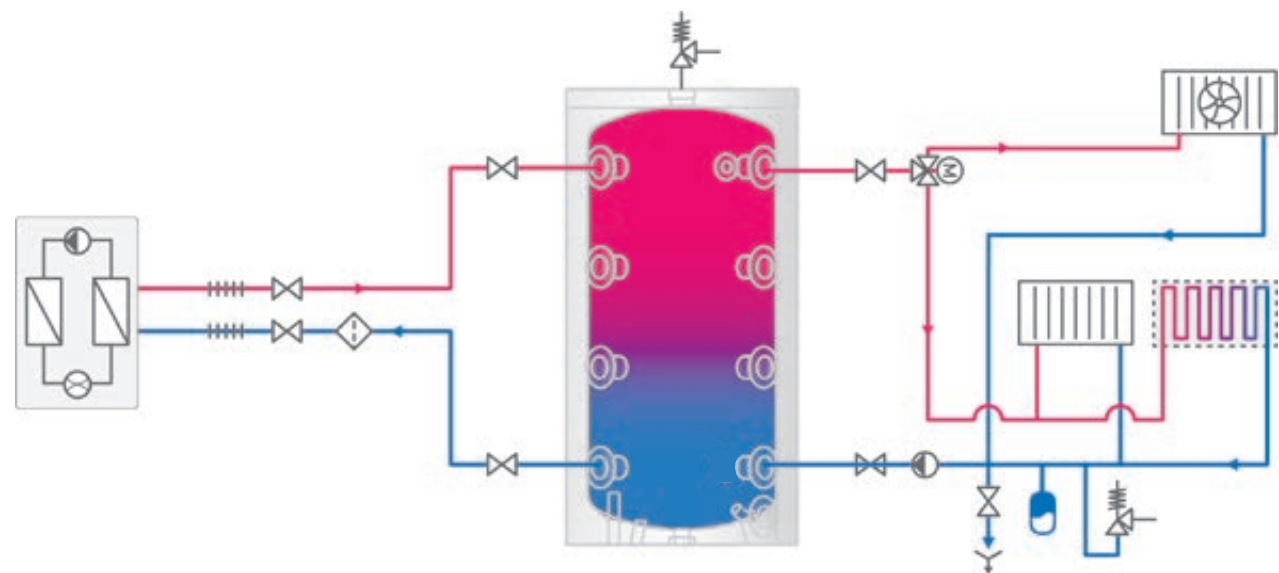
The range includes models of 100 L, 160 L and 200 L without heat exchanger for wall or floor installation.

Advantages:

- High-density CFC PU insulation for low energy losses.
- 4 inlets and 4 outlets with a G 1.1/2" for a higher flow rate.
- High energy efficiency class A (100 L) model and class B (other models).
- Stratification brackets on all the inlets and outlets.
- Drainage on G 3/4".
- AV opening.
- Rated pressure 3 bar.
- Anti-condense insulation on the fittings.
- 2 pockets for thermosensors (1 for the 100 l model).

MODEL		V 100 55 ACF
Art. number	Nº	305412
Capacity	L	101
Net weight	kg	34
Insulation (rigid PU)	mm	73
Heat losses ΔT 45K	W	34
Energy efficiency class		A
Maximum operational temperature	°C	95
Rated pressure	bar	3

INSTALLATION AND CONNECTION SCHEME



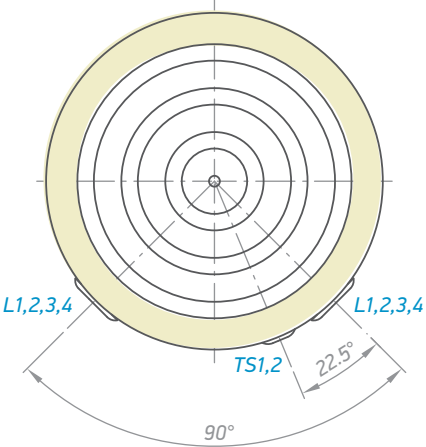
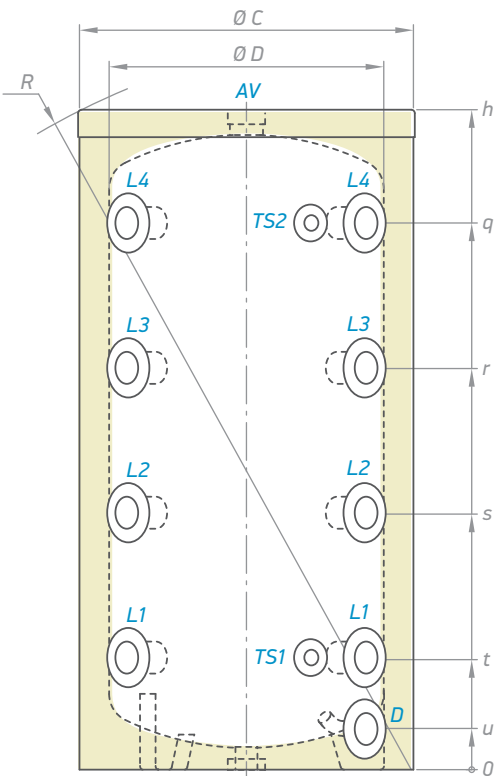
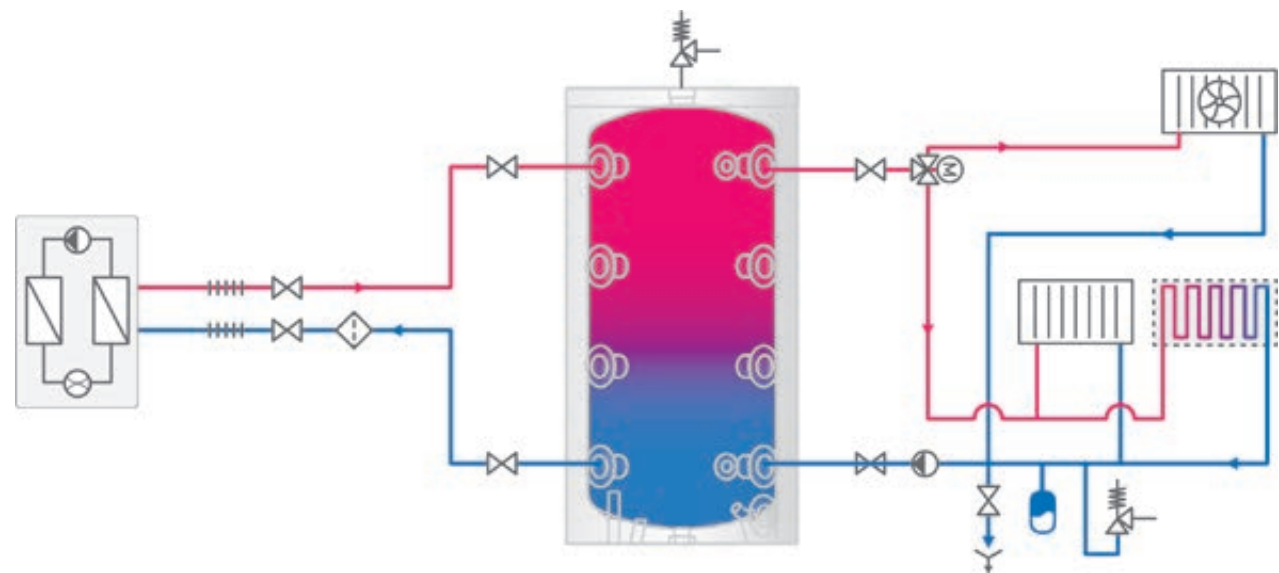
MODEL		V 100 55 ACF
TS1	thermo sensor pocket level 1	G ½"
AV	opening for air ventilation	G ¾"
D	drainage	G ¾"
L1	level 1	G 1½"
L2	level 2	G 1½"
L3	level 3	G 1½"
L4	level 4	G 1½"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 100 55 ACF
h	mm	932
q	mm	710
r	mm	550
s	mm	390
t	mm	230
u	mm	-
R	mm	1081
Ø C	mm	550
Ø D	mm	404

MODEL		V 160 60 ACF	V 200 60 ACF
Art. number	Nº	305413	305414
Capacity	L	163	202
Net weight	kg	40	44
Insulation (rigid PU)	mm	50	50
Heat losses ΔT 45K	W	49	56
Energy efficiency class		B	B
Maximum operational temperature	°C	95	95
Rated pressure	bar	3	3

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

TS1	thermo sensor pocket level 1	G ½"
TS2	thermo sensor pocket level 2	G ½"
AV	opening for air ventilation	G ½"
D	drainage	G ¾" B
L1	level 1	G 1½"
L2	level 2	G 1½"
L3	level 3	G 1½"
L4	level 4	G 1½"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 160 60 ACF	V 200 60 ACF
h	mm	1007	1202
q	mm	779	995
r	mm	586	730
s	mm	393	465
t	mm	200	200
u	mm	75	75
R	mm	1169	1343
Ø C	mm	600	600
Ø D	mm	500	500

BUFFER TANKS FOR HEAT PUMP SYSTEMS

ADVANTAGES



6
Bar

NON-ENAMELED BUFFER TANKS FOR HEAT PUMP SYSTEMS

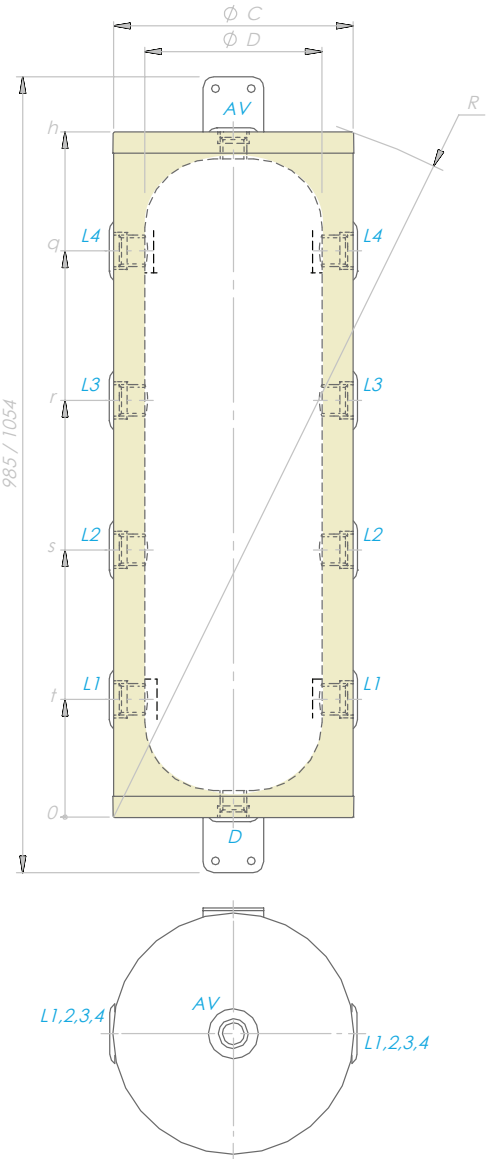
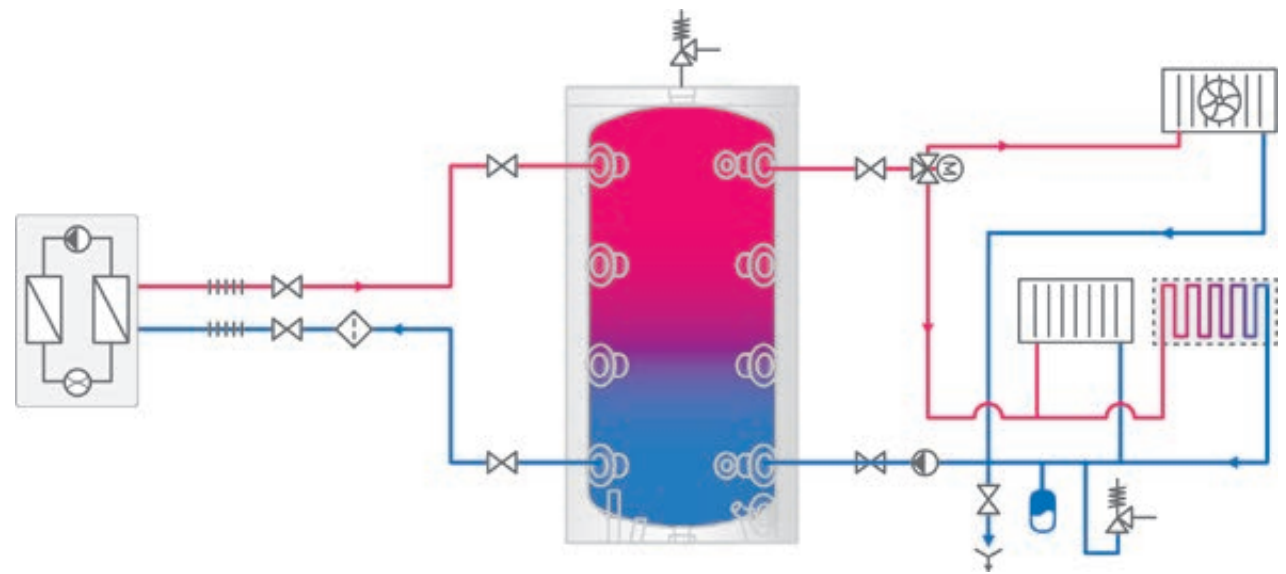
The range includes models of 50 L and 80 L without a heat exchanger for wall installation.

Advantages:

- High-density 50 mm PU insulation for low energy losses.
- 4 inlets and 4 outlets with a G 1.1/4" for a higher flow rate.
- High energy efficiency class B.
- Stratification brackets on the lower and bottom inlets and outlets.
- Drainage on G 1 1/2".
- Air ventilation on G 3/4".
- Rated pressure 6 bar.

MODEL		V 50 40	V 80 46
Art.number	Nº	423103	423100
Capacity	L	51	80
Net weight	kg	23.2	35
Insulation (rigid PU)	mm	50	50
Heat losses ΔT45K	w	38	45
Energy efficiency class		B	B
Maximum operational temperature	°C	95	95
Rated pressure	bar	6	6

INSTALLATION AND CONNECTION SCHEME



for ALL MODELS

Opening for air ventilation	G ¾"
Drainage	G 1½"
Level 1	G 1¼"
Level 2	G 1¼"
Level 3	G 1¼"
Level 4	G 1¼"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm		V 50 40	V 80 46
h	mm	865	915
q	mm	718	742
r	mm	528	552
s	mm	338	362
t	mm	148	172
R	mm	953	1003
ØC	mm	400	460
ØD	mm	300	360

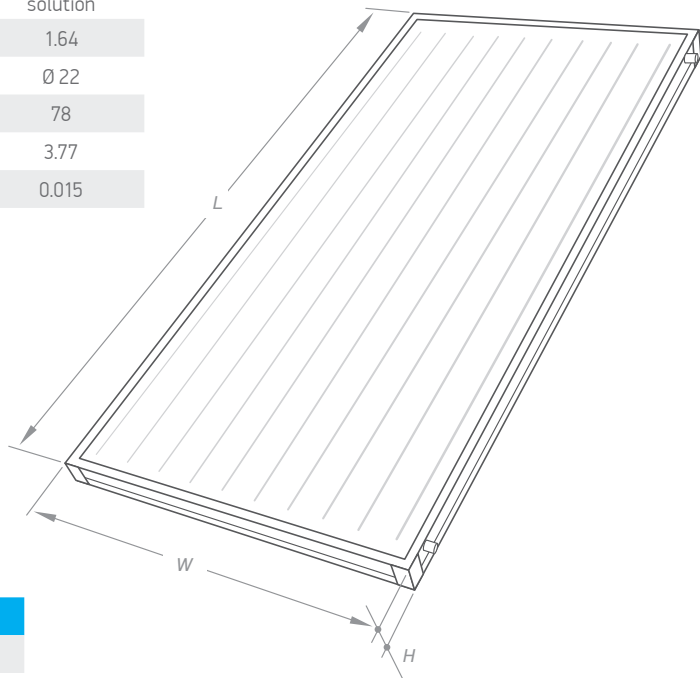


SOLAR ENERGY SYSTEMS

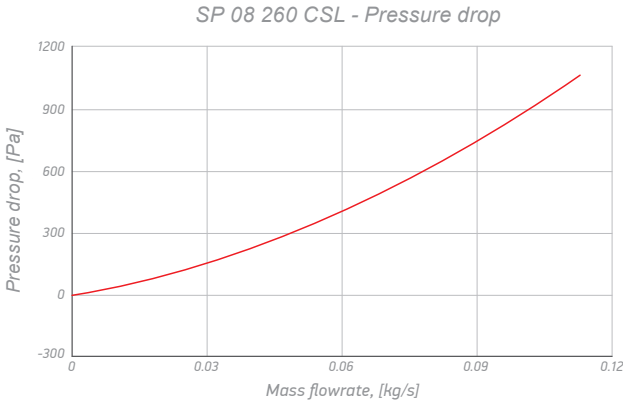
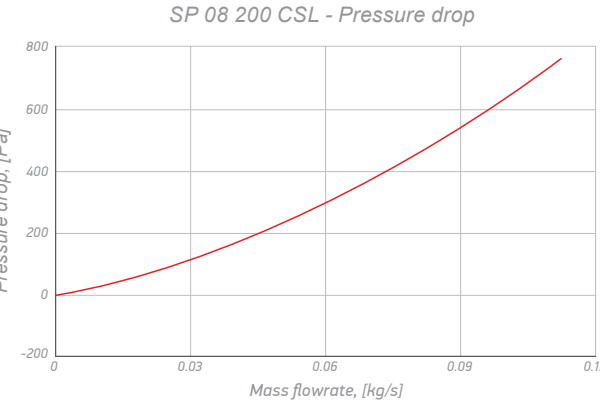
Advantages:

- Electric energy hot water system.
- Directly heated by sun radiation.
- High-density PU insulation of the water tank.
- Rockwool insulation of the solar panel.
- Stand for flat and sloping roofs available.
- A complete connection kit included in the set.
- Solar Keymark certified.
- Flow box.
- Solar controller.

MODEL		SP 08 200 CSL	SP 08 260 CSL
Art. number		421600	421602
Absorber area	m ²	1.8	2.37
Weight empty	kg	36.5	45
Coating		selective	selective
Absorption ratio	%	95	95
Reflection capacity	%	5	5
Max. operating pressure	bar	10	10
Number of risers	pieces	8	11
Heat carrier		propylene-glycol solution	propylene-glycol solution
Absorber capacity	L	1.28	1.64
Attachment connections	mm	Ø 22	Ø 22
Collector efficiency (absorber)	%	77	78
Heat loss linear ratio a ₁	W/m ² K	3.95	3.77
Heat loss square ratio a ₂	W/m ² K ²	0.016	0.015

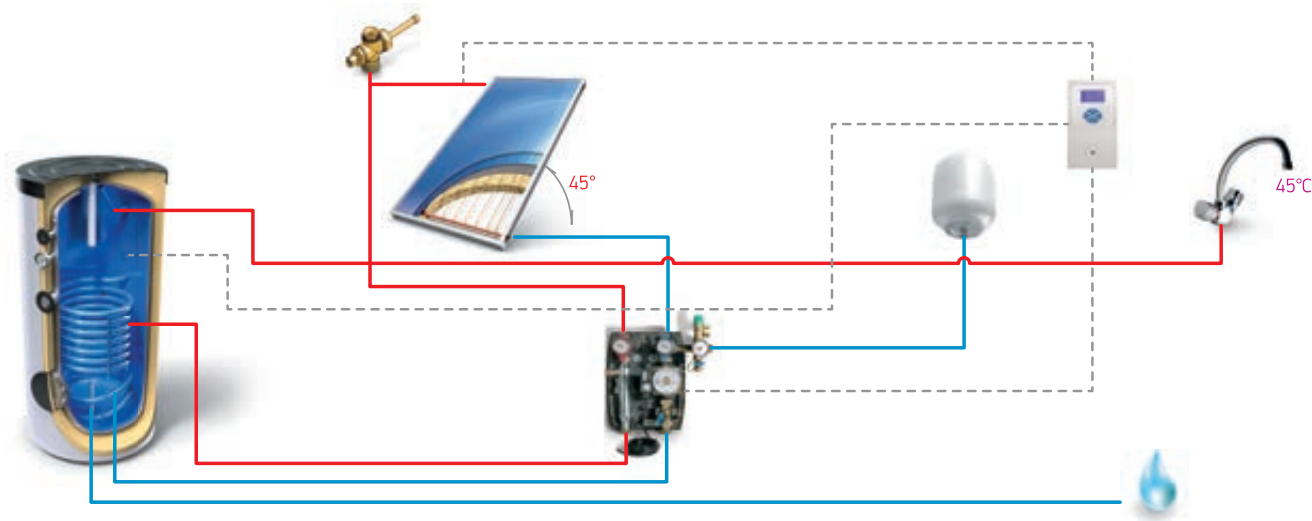


Dimensions			
L	mm	2030	2030
W	mm	1030	1280
H	mm	80	80



MODEL		SS 150 SP08	SS 200 SP08	SS 300 SP08	SS 500-6 SP08
Art. number	Nº	301673	301675	301676	301677
Number of people served		2-3	3-4	4-5	6-7
Maximum available amount of hot water	L	147	225	330	553
Solar panel type		1 x SP 08 200 CSL	2 x SP 08 200 CSL	2 x SP08 200 CSL	3 x SP08 200 CSL
Solar storage tank model		EU GCV9S 150 44 20 B11 TSRP	EV 7/5S2 200 60 F40 TP2	EV 10/7S2 300 65 F41 TP2	EV 15/7S2 500 75 F42 TP2
Pump group model		FlowBox 8010-S	FlowBox 8010-S	FlowBox 8010-S	FlowBox 8010-E
Expansion vessel		S12L	S12L	S12L	S24L
Controller model		RS02P	RS02P	RS02P	ECOSOL-E
Propylene glycol - 5 L	pieces	1	2	3	3
Solar stand		1 x MK-SR/FR-SP08	1 x MK-SR/FR-SP08 200 Double	1 x MK-SR/FR-SP08 200 Double	1 x MK-SR/FR-SP08 1 x MK-SR/FR-SP08 200 Double
Input-output connections		1 x Manual air vent 2 x Cap 22 mm 1 x Nipple Ø 22 - ¾"	1 x Manual air vent 2 x Cap 22 mm 1 x Nipple Ø 22 - ¾" 2 x Nipple Ø 22 - Ø 22	1 x Manual air vent 2 x Cap 22 mm 1 x Nipple Ø 22 - ¾" 2 x Nipple Ø 22 - Ø 22	1 x Manual air vent 2 x Cap 22mm 1 x Nipple Ø 22 - ¾" 2 x Nipple Ø 22 - Ø 22 2 x Flexible hose 4 x Nipple Ø 22 - 1"
Package set dimensions (L x W x H)	mm	820 x 1280 x 2460	820 x 1280 x 2460	1200 x 1280 x 2460	1200 x 1280 x 2460

All systems are designed for latitude between ~ 35°N to 50°N and altitude between ~ 0 m to 1000 m! For more details about system design, please refer to instruction manual!





NAME		Art. N°				
Expansion vessel - in conformity with Pressure equipment directive 2014/68/EU (PED), module H1						
		Capacity, L	Height, mm	Connection	Max working pressure, bar	Max working temperature, °C
S 12 L	421170	12	350	¾"	10	130
S 24 L	421171					
Solar controller - Digital control system for the management of solar heat plant:						
		Width, mm	Height, mm	Depht, mm	Description	
ECOSOL-E		110	163	52	Programmable digital control system for solar thermal installations including solar collectors, circulation pumps, and/or diverter valves, storage tanks and integrative heating. In addition to the basic function of temperature differential regulator, it features numerous options to manage plant layouts of various complexities and to optimise the overall performance of the plant; it allows the achievement of considerable energy savings thanks to the ability to drive pumps with high efficiency and to manage flow sensors. - universal power supply - graphic backlit LCD - two-colour LED for diagnostics/signalling - 3 touch keys with sound feedback - 4 inputs for PT1000 or NTC probes - 1 input for flow meter - 4 relay outputs of which 2 PWM outputs - SELV insulation - it can be installed on the wall or in an electric control panel	
PT1000	422366	-	-	-		
NTC		-	-	-		
RS02P		100	70	36	Programmable digital controller for solar thermal systems equipped with a solar collector, a high-efficiency circulation pump, a storage tank and heating support. Besides its basic function of temperature differential regulator, this device is able to optimise the solar thermal system performance thanks to the possibility to drive a PWM modulating pump, and it also offers several functions for the system protection. Its features, as well as its simple design and user-friendly interface, make this product suitable for different types of solar thermal systems. - 2-digit 7-segment display - 3 diagnostics/signalling LEDs - 3 set-up keys - 3 inputs for probes type PT1000 or NTC (10K@25°C b=3435 or 1,65K@80°C b=3530) - 3 outputs: - 1 (power-free contact) N.O. relay output - 1 (12 VDC) PWM output + 1 associated (mains voltage) N.O. relay output - insulation type SELV (Safety Extra Low Voltage) - possible installation on a wall or on an electric control panel	
PT1000	422364	-	-	-		
NTC		-	-	-		



NAME		Art. №				
Solar pump group						
		Dimensions, mm	Max. working pressure, bar	Max. working temperature, °C	Debit range, L/ min	Description
FlowBox Solar FSB8010-S	420103	308x270x220	10	110	2-17	Ready-to-install, compact solar return. Pump installation length 130 mm - wired ex-works, balancing valve WattFlow with fill and drain cook, safety unit with a pressure gauge, solar safety relief valve 6 bar and a fill and drain cook, wall bracket including a corrugated tube to connect with an expansion vessel with an arrangeable metal gravity flow stop, heat insulation, compression fitting connection 22 mm.
FlowBox Solar FSB8010-E	422365	308x250x200	10	110	4-36	Ready-to-install, compact solar control unit. Pump installation length 130 mm - wired ex works, balancing valve WattFlow with fill and drain cook, safety unit with a pressure gauge, solar safety relief valve 6 bar and a fill and drain cook, wall bracket including corrugated tube to connect with the expansion vessel with an anarrangeable metal gravity flow stop, EPP heat insulation, venting pipe, compression fitting connection 22 mm.
Connector and fitting for solar collector						
		Connection				
Blind plug Ø 22	420100	Ø 22				
Nipple Ø 22 - Ø 22	420099	Ø 22 - Ø 22				
Connection kit for one solar collector						
		Connection		Set		
Nipple NP-22-¾" (Ø 22 - ¾")	300839	Ø 22 - G¾"		1 pcs		
Blind plug Ø 22		Ø 22		2 pcs		
Manual air valve with sensor hive SH-22		Ø 22 - ¾"		1 pcs		
Flexible house kit FH-22 for solar panels						
		Connection		Set		
Flexible hose 50 mm	300877	1"		2 pcs		
Nipple NP-22-1"		Ø 22 - 1"		4 pcs		

NAME	Art. N°	
Roof set		Description
MK-SRFR-SP08 Mounting kit for single solar panel SP08 200 / 260	421603	Shipped completely packaged, encoded and with an installation manual.
MK-SRDR-SP08 200 Double Mounting kit for two solar panels SP08 200 CSL	421606	Available for: - Flat and slope roofs for one solar panel SP08 200 / 260 CSL: Model MK-SRFR-SP08 - Flat and slope roofs for two solar panels SP08 200 CSL: Model MK-SRDR-SP08 200 Double
MK-SRFR-SP08 260 Double Mounting kit for two solar panels SP08 260 CSL	421605	- Flat and slope roofs for two solar panels SP08 260 CSL: Model MK-SRDR-SP08 260 Double
PG concetrate		
Monopropylene Glykol HP	421182	Non-toxic antifreeze fluid. 5 kg concentrate. Antifreeze protection of Monopropylene Glykol HP (concentrate) -60°C. Antifreeze protection of mixture Monopropylene Glykol HP:Water (50:50) -30°C. Antifreeze protection of mixture Monopropylene Glykol HP:Water (34:66) -20°C.

The design and the technical data specified in the catalogue are subject to change without notice.



TESY offers different types of heating elements with a power rating from 3 kW up to 12 kW:

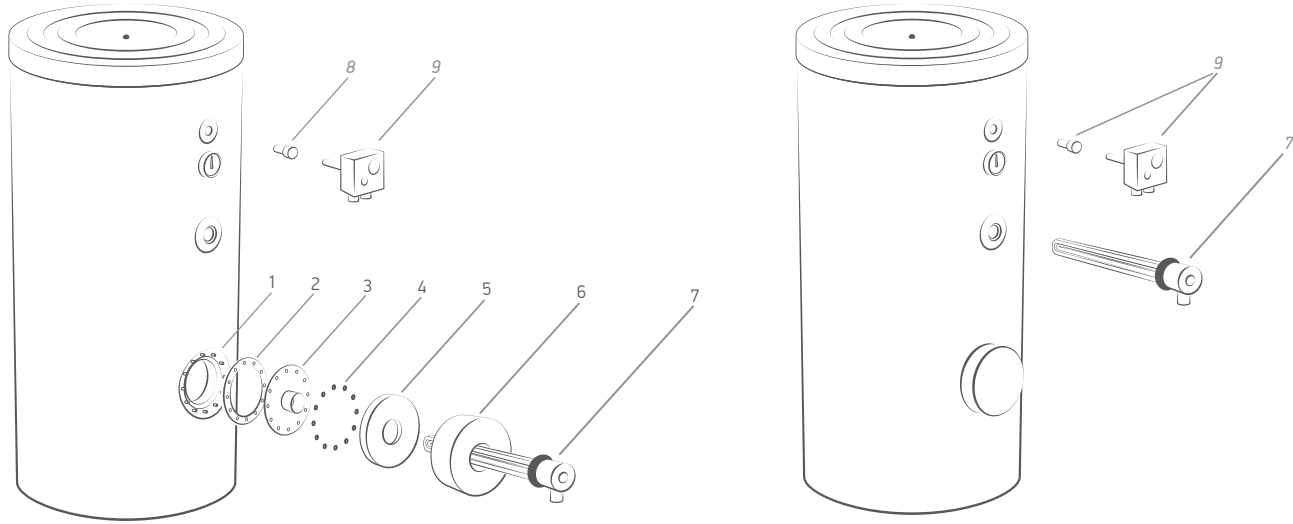
- Plug and play
- With integrated thermostat
- Standard solution with separate thermostat

There are two possible positions for installation of the heating elements for the majority of the models.

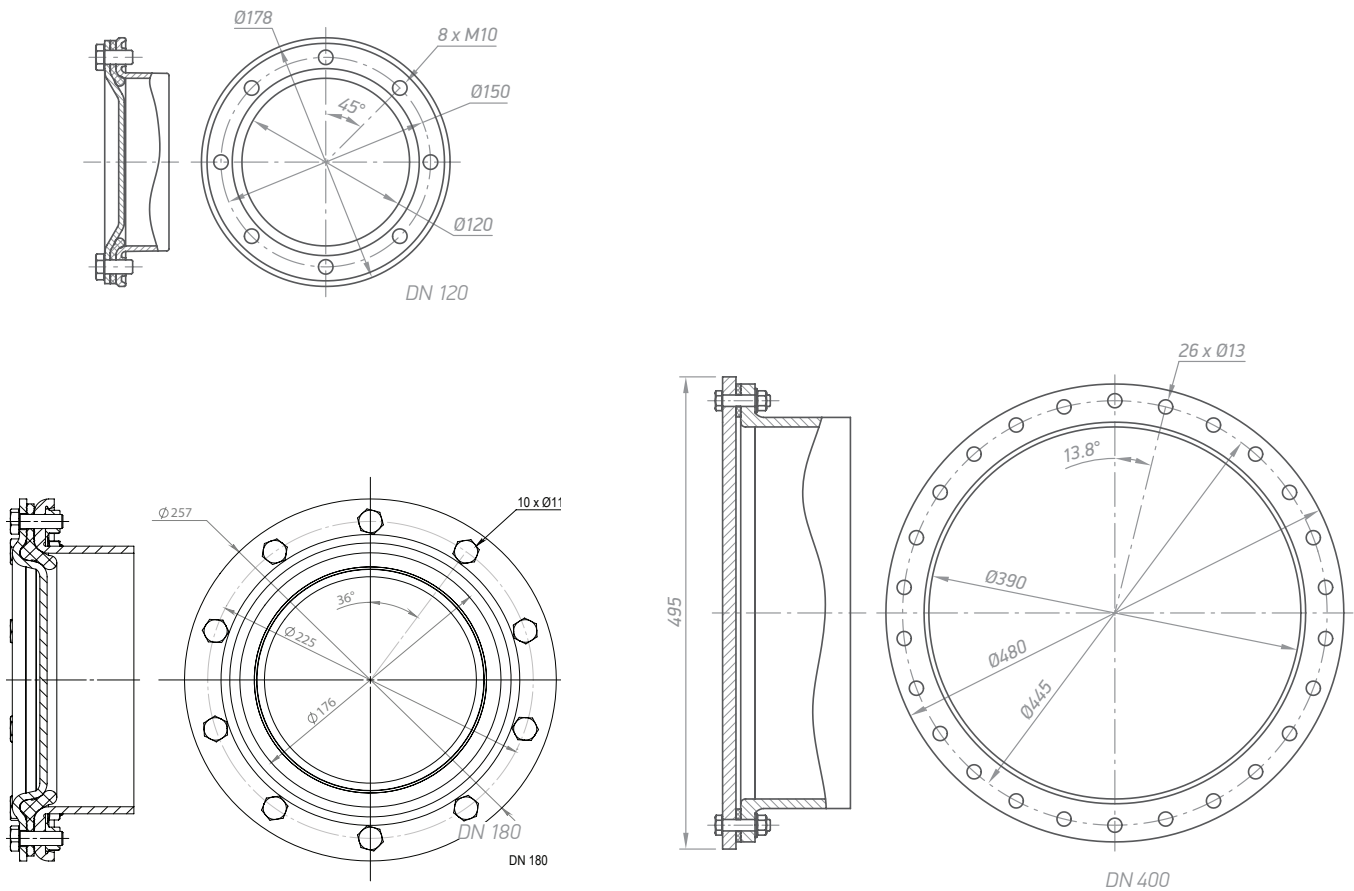
MODEL	Power	Name	Art. №	Description
Electric sets (sold separately):				
From 160 L to 500 L	3 kW	E Water heating set 3 kW plug and play (from 160 L to 500 L)	301456	Package includes: pos.2 rubber gasket pos.3 flange G 1½" pos.7 HE 3000 W / 230 V, with thermostat + thermal cut-off 70 ±5°C / 85 ±5°C with plug (MB3000 ORW1_230V-64)
	3 kW	Water heater set 3 kW (from 160 L to 500 L)	301455	Package includes: pos.2 rubber gasket pos.3 flange G 1½" pos.7 HE 3000 W / 230 V 3 phase, L= 290 pos.9 thermostat + thermal cut out with thermo pocket (160 L up to 500 L)
	4.5 kW	Water heater set 4.5 kW (from 160 L to 500 L)	301457	Package includes: pos.2 rubber gasket pos.3 flange G 1½" pos.7 HE 4500 W / 230 V 3 phase, L= 405 pos.9 thermostat + thermal cut out with thermo pocket (160 L up to 500 L)
	6 kW	Water heater set 6 kW (from 160 L to 500 L)	305620	Package includes: pos.2 rubber gasket pos.3 flange G 1½" pos.7 HE 6000 W / 230 V 3 phase, L= 440 pos.9 thermostat + thermal cut out with thermo pocket (160 L up to 500 L)
From 800 L to 2000 L	4.5 kW	Water heater set 4.5 kW (from 800 L to 2000 L)	300560	Package includes: pos.7 HE 4500 W / 230 V 3 phase, L= 405 pos.9 thermostat + thermal cut out with thermo pocket (750 L up to 2000 L)
	6 kW	Water heater set 6 kW (from 800 L to 2000 L)	300562	Package includes: pos.7 HE 6000 W / 230 V 3 phase, L= 505 pos.9 thermostat + thermal cut out with thermo pocket (750 L up to 2000 L)
	7.5 kW	Water heater set 7.5 kW (from 800 L to 2000 L)	300564	Package includes: pos.7 HE 7500 W / 400 V 3 phase, L= 615 pos.9 thermostat + thermal cut-off with thermo pocket (750 L up to 2000 L)
	12 kW	Electrical heat set 12 kW 2" (from 800 L to 2000 L)	304313	Package includes: pos.7 HE 12000 W / 400 V 3 phase, L=520, G2" pos.9 thermostat + thermal cut out with thermo pocket (750 L up to 2000 L)

MODEL	Power	Name	Art. №	Description
Flange with a fitting for heating element (sold separately):				
From 800 L to 2000 L	3 kW	Flange cover set 1 HE (from 800 L to 2000 L)	305496	Package includes: pos.2 rubber gasket pos.3 cover flange with fitting G 1½"
	4.5 kW			
	6 kW			
	7.5 kW			
From 800 L to 2000 L	12 kW	Flange cover set 1 HE (from 800 L to 2000 L)	305497	Package includes: pos.2 rubber gasket pos.3 cover flange with fitting G2"
Flange with 2 fittings for heating elements (sold separately):				
From 800 L to 2000 L	3 kW	Flange cover set 2 HE (from 800 L to 2000 L)	305561	Package includes: pos.2 rubber gasket pos.3 cover flange with two fittings 2xG1½"
	4.5 kW			
	6 kW			

MODEL	Power	Name	Art. №	Description
Heating elements (sold separately):				
From 160 L to 500 L	3 kW	Plug and play electric heating element	300910	Electric heating element 3000 W / 230 V
	3 kW	Electric heating element 3 kW (from 160 L to 500 L)	300570	HE 3000 W / 230 V 3 phase, L= 290
	4.5 kW	Electric heating element 4.5 kW (from 160 L to 2000 L)	300571	HE 4500 W / 230 V 3 phase, L= 405
	6 kW	Electric heating element 6 kW (from 160 L to 500 L)	305618	HE 6000 W / 230 V 3 phase, L= 440
		Combined temperature control unit	300592	Thermostat + thermal cut out with thermo pocket (form 160 up to 500 L)
From 800 L to 2000 L	6 kW	Electric heating element 6 kW (from 800 L to 2000 L)	300573	HE 6000 W / 230 V 3 phase, L= 505
	7.5 kW	Electric heating element 7.5 kW (from 800 L to 2000 L)	300575	HE 7500 W / 400 V 3 phase, L= 615
	12 kW	Electric heating element 12 kW (from 800 L to 2000 L)	300569	HE 12000 W / 400 V 3 phase, L= 520
		Combined temperature control unit	300593	Thermostat + thermal cut out with thermo pocket (form 800 up to 2000 L)
Heating elements with integrated thermostat (sold separately):				
From 160 L to 500 L	3kW	Electrical heat resistance 3kW (from 160 L to 500 L)	305558	HE 3000W/230V 3 phase, L= 290mm
	4.5kW	Electrical heat resistance 4.5kW (from 160 L to 500 L)	305364	HE 4500W/230V 3 phase, L= 405mm
	6kW	Electrical heat resistance 6kW (from 160 L to 500 L)	305365	HE 6000W/230V 3 phase, L= 440mm
From 800 L to 2000 L	6kW	Electrical heat resistance 6kW (from 800 L to 2000 L)	305365	HE 6000W/230V 3 phase, L= 505mm
	7.5kW	Electrical heat resistance 7.5kW (from 800 L to 2000 L)	305366	HE 7500W/400V 3 phase, L= 615mm
From 120 L to 160 L Indirectly heated water tanks under gas boilers	3kW	Electrical heat resistance UGT 3kW (from 160 L to 500 L)	305619	HE 3000W/230V 3 phase, L= 700mm



Flange type	Applicable for tanks with volume
DN 120	From 160 L to 500 L
DN 180	From 800 L to 2000 L
DN 400	From 1000 L to 2000 L



NAME	Art. Nº	
Buffer tanks for Heat Pump Systems		
		Description
ACS Buffers AC	303580	Set of 6 plastic caps with K-flex and anti-moisture
ACS PLUG HEX ACF 100-200L	305424	6 pcs metal plugs G1.1/2"
ACS THERMOSET ACF 100-200L	305425	2 pcs brass sleeves for the thermopockets





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