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TESY

It's impressive

PRO

PROFI LINE PRODUCTS

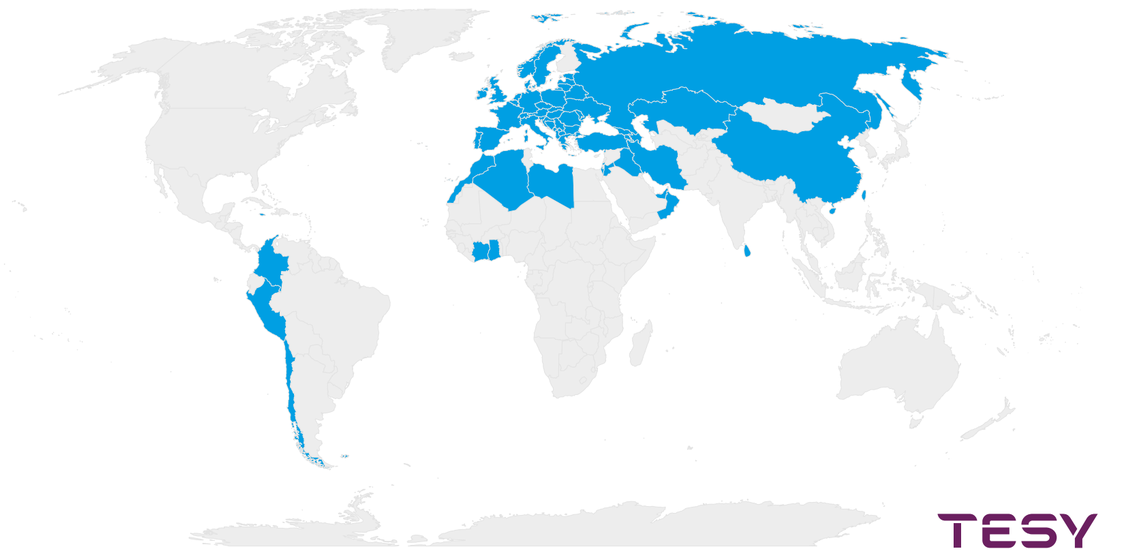
TESY

It's impressive

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

Zhechko Kyurkchiev
CEO

TESY in numbers



TESY
It's impressive

MORE THAN 50 COUNTRIES

4 CONTINENTS

MORE THAN 840 EMPLOYEES

5 FACTORIES

ABOUT TESY

TESY is one of the leading European producers of **electric storage water heaters**, **indirectly heated water tanks** and **electric heating appliances**.
In the last decade TESY marked a rapid growth and launched a wide range of innovative 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, enhancing its business processes and developing its people.

TESY Mission, Vision, Values

MISSION

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

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.

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

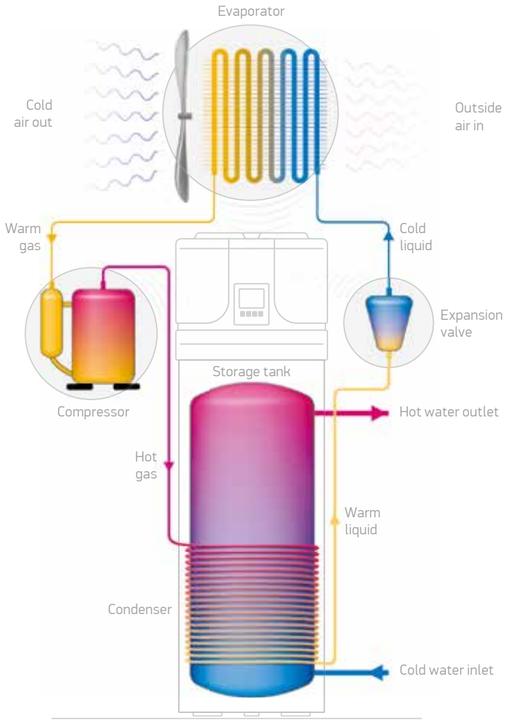
The shared vision for openness and integrity is the core virtue of TESY's long-term partnerships.
Supportive, loyal and trustful, we offer reliable products and service quality with respect for the individual.

PROFI LINE PRODUCTS

The AquaThermica range includes models with volumes of 200 and 260 litres with and without a heat exchanger.

- An environmentally friendly product, operating with renewable energy resulting in lower CO_2 emissions[1]
- The highest energy efficiency class A+ in its category, according to ErP regulations
- Operates within a wide temperature range of incoming air from -10°C to 43°C
- Heats up water to 65°C with the heat pump unit only
- Electric heating element for faster heating up and reaching of higher water temperature
- Highly efficient[2] with a precisely balanced refrigeration cycle due an electronically commutated motor and an electronic expansion valve
- Up to 75% lower electricity consumption[3]
- Can be connected to other renewable energy sources like PV and solar systems or boilers
- Programmable with a user-friendly control panel
- Self-diagnostic system
- Automatic anti-legionella cycle

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 TESY product of the MaxEau family GCV 200 56 20 D06 SRC in energy class C.



65°C DHW with the Heat Pump modules only

ERV modulation
Electronic step motor for precisely balanced refrigerant cycle

Renewable Energy

+ 43°C / -10°C
Operational temperature range -10 to +43°C

ErP A+
Energy efficency class A+

Up to 75% savings
Up to 75% reduced electricity consumption[2]

Low CO_2 emissions[1]

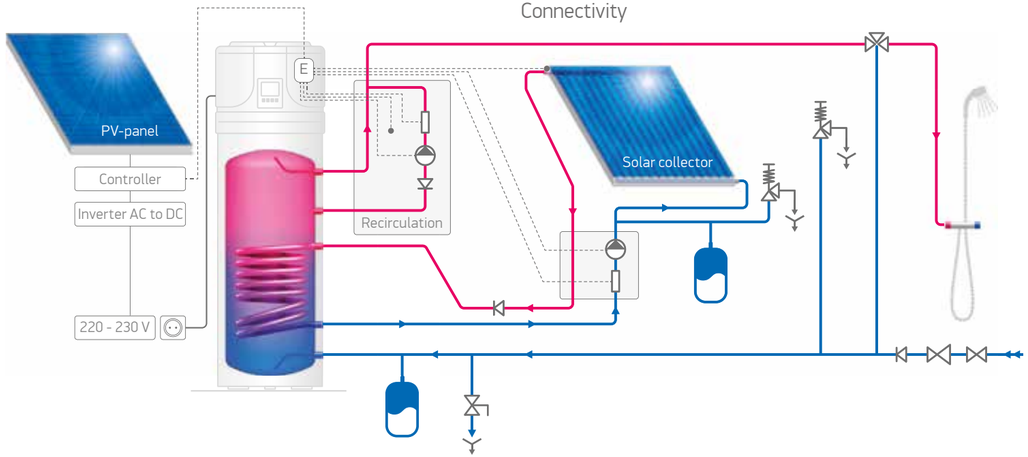
Connectivity to Solar and PV panels

LCD
User-friendly LCD Display

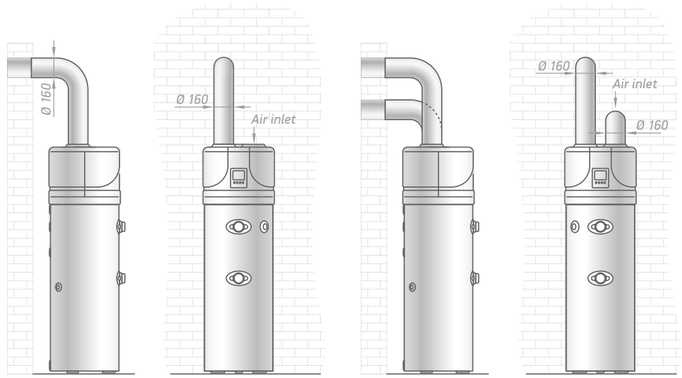
1 - According to the European Market and Statistical Report on the European Heat Pump Association 2018
2 - Compared to a TESY product of the MaxEau family GCV 200 56 20 D06 SRC in energy class C

Heat Pump Water Heaters | AquaThermica | **200 to 260 litres**

Connectivity

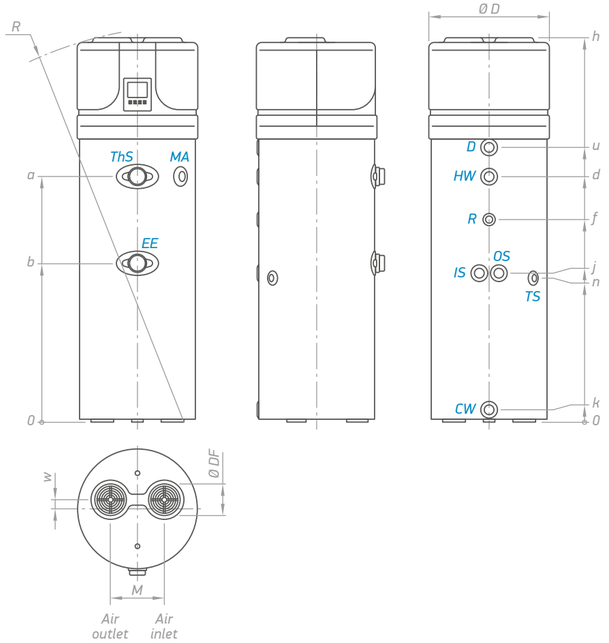


User-friendly LCD display



MODEL			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
Art. number		№	305061	305005	305062	305004
Performance						
Declared load profile			L	L	XL	XL
Heat pump thermal power yield; P_{rated}	Condition EN16147:2017 A7/W55	kW	1.1	1.1	1.2	1.2
Heating time; EN16147:2017	Condition EN16147:2017 A7/W55	h:m	08:59	08:59	10:15	10:15
COP_{DHW}	Condition EN16147:2017 A7/W55		2.9	2.9	3.09	3.09
Water heating energy efficiency	Climate condition EN16147:2017 average	class	A+	A+	A+	A+
Annual electricity consumption	Climate condition EN16147:2017 average	kWh	811.7	811.7	1237.7	1237.7
Sound power Lv(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	16 A T fuse / 16 A automatic switch, characteristic C (to be expected during connection to a power supply systems)			
Internal protection			Single 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	65			
Design characteristics						
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	m^3/h	410			
	Max. pressure head available	Pa	50			
	Motor protection		Internal thermal circuit breaker with an automatic reset			
Condenser			Wound externally, not in contact with the water			
Automatic anti-Legionnella disinfection cycle			yes			
Defrosting			4-way valve			
Refrigerant			R134a			
Refrigerant charge		g	880			
Global warming potential			1430			
CO_2 equivalent		t	1287			

MODEL		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
Water storage					
Water storage tank capacity	l	194	202	251	260
Max. quantity of hot water at 40°C; V_{40}; EN16147:2017	l	262	272	339	351
Heat exchanger for connection to a solar thermal power system	m^2	1.0	N/A	1.2	N/A
Heat exchanger for connection to an auxiliary heating source	m^2	N/A	N/A	N/A	N/A
Cathodic protection		Mg anode Ø 32 x 400 mm			
Insulation - rigit PU	mm	50			
Transport weight	kg	112	96	128	110
Maximum working pressure	bar	8			



MODEL			EVHP 9S 200 60	EVHP 200 60	EVHP 9S 260 60	EVHP 260 60
CW	cold water inlet		G 1"	G 1"	G 1"	G 1"
HW	hot water outlet		G 1"	G 1"	G 1"	G 1"
IS	heat exchanger inlet		G 1"	-	G 1"	-
OS	heat exchanger outlet		G 1"	-	G 1"	-
TS	thermo pocket		G ½"	-	G ½"	-
R	recirculation		G ¾"	G ¾"	G ¾"	G ¾"
EE	openjng for electric element		G 1½"	G 1½"	G 1½"	G 1½"
CD	condensate drainage		G ¾"	G ¾"	G ¾"	G ¾"
Dimensions ±5 mm						
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

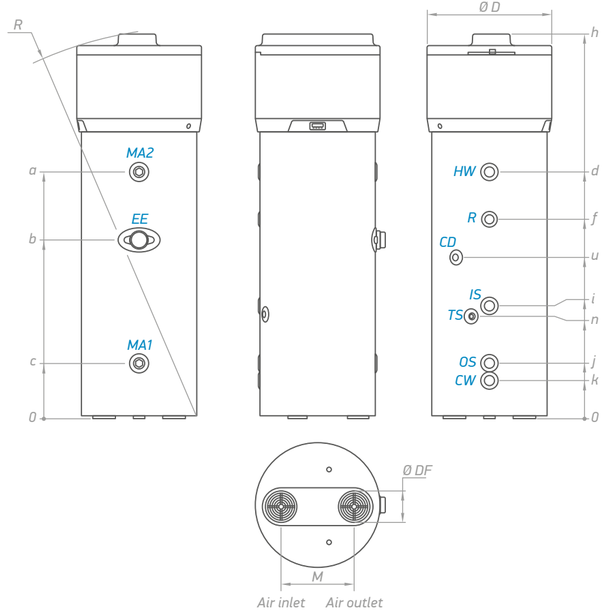
Thread designations according to EN ISO 228-1!

MODEL		EVHP 9S 200 60	EVHP 200 60	EVHP 9S 260 60	EVHP 260 60
Art. number	Nº	422363	422361	422320	422360
Total thermal power	kW	3.1	3.1	3.1	3.1
Heating time [1]	h:m	7:16	7:16	9:44	9:44
Heating time in BOOST mode [1]	h:m	3:48	3:48	4:57	4:57
Heat losses 65°C [2]	W	63	60	71	70
Declared load profile		L	L	XL	XL
Water heating energy efficiency class under average climate conditions				A+	
Water heating energy efficiency in % under average climate conditions	%	116	116	127	127
Annual electricity consumption in kWh under average climate conditions	kWh	883	883	1315	1315
Electrical data					
Power supply	V	1 / N / 230			
Frequency	Hz	50			
Degree of protection		IPX4			
HP maximum absorption	kW	0.5			
Average absorption	kW	0.37			
Heating element + HP maximum absorption	kW	2			
Electric heating element power	kW	1.5			
Maximum current in HP	A	2.3			
Required overload protections	A	16 A T fuse / 16 A automatic switch, characteristic C (to be expected during installation on power supply systems)			
Internal protection		Single safety thermostat with manual reset on a resistive element			
Operating conditions					
Min. ÷ max temperature heat pump air intake (90% R.H.)	°C	4÷43			
Min. ÷ max temperature installation site	°C	4÷43			
Working temperature					
HP Maximum settable temperature - ECO cycle	°C	56			
Maximum settable temperature in an AUTOMATIC cycle	°C	70			
Compressor		Rotary			
Compressor protection		Thermal circuit breaker with automatic reset			
Thermodynamic circuit protection type		Safety pressure switch with automatic reset			
Fan		Centrifugal			
Ejection outlet diameter	mm	160			
Revolutions per minute	rpm	1420			
Nominal air capacity	m³/h	350			
Max. pressure head available	Pa	100			
Motor protection		Internal thermal circuit breaker with automatic reset			
Condenser		Wrapped externally, not in contact with water			
Coolant		R134a			
Load	g	900			

1 - temperature of incoming air supply 20 (max. 15°C), temperature of boiler storage environment 20°C, water heated from 10°C to 55°C, (according to UNI EN 16147-2011)
2 - measurements performed according to EN 12897:2016
3 - measurements performed according to EN 16147:2017
4 - measurements performed according to EN 12102-2:2019
5 - Automatic activation every 30 days of operation

Heat Pump Water Heaters | HP 1.1 | **200 to 260 litres**

MODEL		EVHP 9S 200 60	EVHP 200 60	EVHP 9S 260 60	EVHP 260 60
Water storage					
Water storage capacity	l	200	200	260	260
Max. quantity of hot water that can be used Vmax [3]	l	276	276	342	342
Coil for connection to solar thermal power system	m²	0.96	N/A	0.96	N/A
Coil for connection to an auxiliary heating source	m²	N/A	N/A	N/A	N/A
Cathodic protection		2 x Mg anode Ø 32 x 260 mm			
Insulation		50 mm rigid PU			
Defrosting		Passive with air			
Transport weight	kg	94	90	110.2	91.5
Sound power Lw(A) [4]	dB(A)	59			
Automatic anti-Legionnella disinfection cycle [5]		YES			
Maximum working pressure	bar	7			



MODEL			EVHP 9S 200 60	EVHP 200 60	EVHP 9S 260 60	EVHP 260 60
CW	cold water inlet		G 1"	G 1"	G 1"	G 1"
HW	hot water outlet		G 1"	G 1"	G 1"	G 1"
IS	inlet heat exchanger		G 1"	-	G 1"	-
OS	outlet heat exchanger		G 1"	-	G 1"	-
TS	thermo pocket		G ½"	-	G ½"	-
R	recirculation		G ¾"	G ¾"	G ¾"	G ¾"
EE	electric heating element		G 1½"	G 1½"	G 1½"	G 1½"
CD	condensate drainage		G ½"	G ½"	G ½"	G ½"
Dimensions ±5 mm						
h		mm	1714	1714	2004	2004
a		mm	1000	1000	1286	1286
b		mm	716	716	931	931
c		mm	287	287	287	287
d		mm	1001	1001	1286	1286
f		mm	769	769	1065	1065
i		mm	674	674	674	674
j		mm	287	287	287	287
k		mm	202	202	202	202
n		mm	644	644	644	644
u		mm	769	769	839	839
M		mm	380	380	380	380
Ø DF		mm	160	160	160	160
R		mm	1751	1751	2038	2038
Ø D		mm	650	650	650	650

Thread designations according to EN ISO 228-1!

IHWTs advantages

CrystalTech PRO
High quality[1] enamel coating for a longer life[2] of the water tank.

Highly efficient Insulation
Technology for efficient[3] high density PU insulation[4] developed to keep the water hot for a longer period of time[5] and to help reduce heat losses.

Anode protection
Anode protectors for additional anti-corrosion protection of the water tank[6].

Robotic welding technology for a high quality welding[7].

Recirculation opening.

Service opening for easy maintenance and cleaning of the water tanks.

Option for installation of different electric heating elements.

1 - Enamel coating according to DIN 4753-3: 2017, clauses: 6.4.3 (acid resistance), 6.5 (hygiene safety), 6.6 (stability)
2 - When used correctly according to the manufacturer's instructions. Life expectancy may vary according to natural and other external factors beyond the control of the manufacturer
3 - Insulation corresponding to energy class A+ / A / B / C (according to the model of the appliance)
4 - Polyurethane foam
5 - Compared to TESY appliances that did not use the insulation specified
6 - When used correctly according to the manufacturer's instructions. Defectiveness may vary according to natural and other factors beyond the control of the manufacturer
7 - The water tank is designed according to the requirements of BDS EN 12897: 2016

IHWTs for combined DHW and CH systems

IHWTs for combined DHW and CH systems

The combined floor-standing indirectly heated water tanks are used in central heating systems and domestic hot water production.

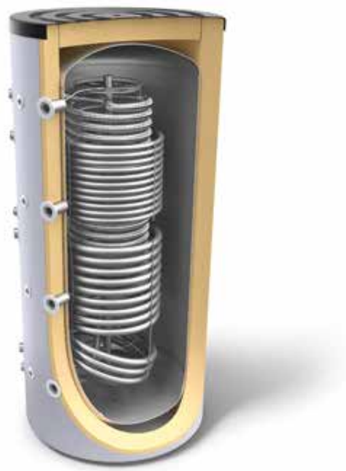
The range includes:

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

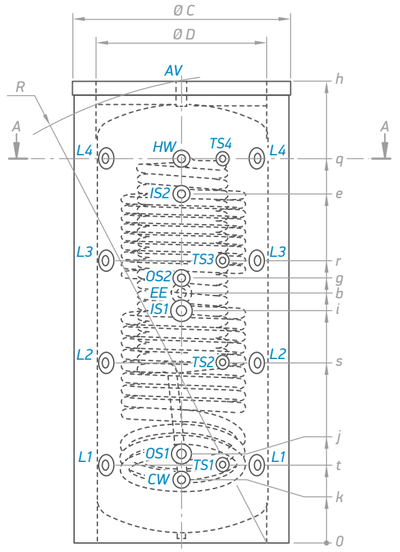
- without heat exchangers
- with one heat exchanger around the enamelled tank
- with two heat exchangers around the enamelled tank

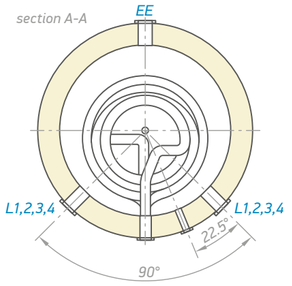
Models from 500 L to 1000 L for instantaneous production of domestic hot water:

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



IHWTs for combined DHW and CH systems with a hygienic stainless steel coil

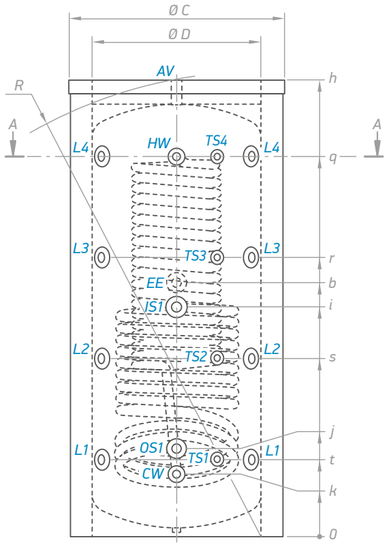


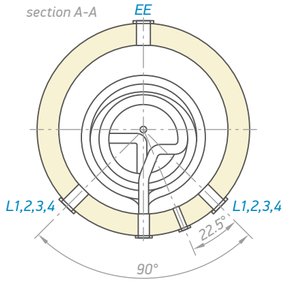


MODEL		V 10/6 S2 800 95 HYG 5.5 HE C	V 10/9 S2 1000 95 HYG5.5 HE C
Art. number	№	303829	303830
Nominal capacity buffer tank	L	738	827
Net weight	kg	210	230
Insulation	mm	80	80
Heat exchanger surface S1	m^2	2.23	2.23
Heat exchanger surface S2	m^2	1	1.54
Surface hygienic heat exchanger	m^2	5.5	5.5
Heat 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
Dimensions ±5 mm			
h	mm	1932	2132
b	mm	1051	1090
e	mm	1422	1574
g	mm	1164	1187
i	mm	964	966
j	mm	409	412
k	mm	290	290
q	mm	1500	1775
r	mm	1120	1304
s	mm	740	833
t	mm	360	362
R	mm	1967	2167
Ø C	mm	950	950
Ø D	mm	790	790

for ALL MODELS		
CW	cold water inlet	G 1¼" B
HW	hot water outlet	G 1¼" B
IS1-2	heat exchanger inlet	G 1½" B
OS1-2	heat exchanger outlet	G 1½" B
TS1-2-3-4	thermo 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!

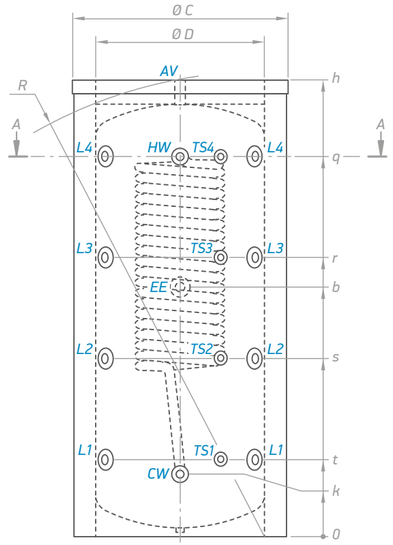


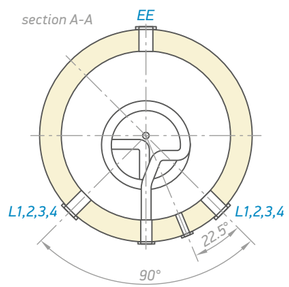


MODEL		V 11S 500 75 HYG 5.0	V 10 S 800 95 HYG5.5 HE C	V 10 S 1000 95 HYG5.5 HE C
Art. number	№	303534	303825	303822
Nominal capacity buffer tank	L	458	748	838
Net weight	kg	150	188	214
Insulation	mm	50	80	80
Heat exchanger surface S1	m²	1.65	2.23	2.23
Surface hygienic heat exchanger	m²	5	5.5	5.5
Heat 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
Dimensions ±5 mm				
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	950	950
Ø D	mm	650	790	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
CW	cold water inlet	G 1" B	G 1¼" B
HW	hot water outlet	G 1" B	G 1¼" 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 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!





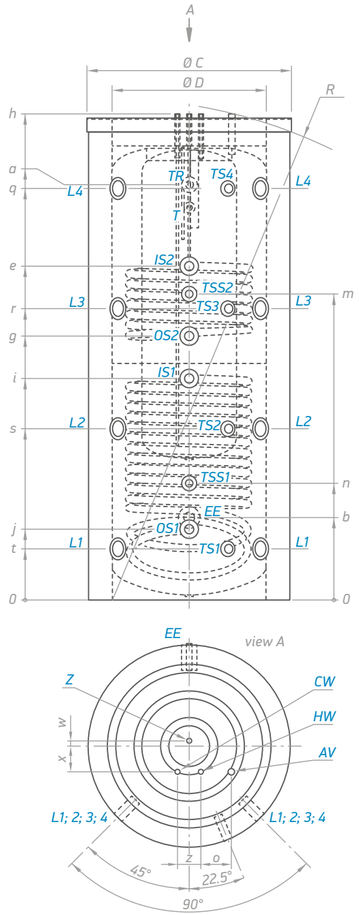
MODEL		V 500 75 HYG 5.0	V 800 95 HYG 5.5 C	V 1000 95 HYG 5.5 C
Art. number	№	303530	303844	303821
Nominal capacity buffer tank	L	470	757	874
Net weight	kg	130	143	163
Insulation	mm	50	80	80
Surface hygienic heat exchanger	m²	5	5.5	5.5
Nominal volume hygienic heat exchanger	L	26	28	28
Heat loss ΔT 45K	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
Dimensions ±5 mm				
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	950	950
Ø D	mm	650	790	790

MODEL		V 500 75 HYG 5.0	V 800 95 HYG5.5 C V 1000 95 HYG5.5 C
CW	cold water inlet	G 1" B	G 1¼" B
HW	hot water outlet	G 1" B	G 1¼" B
TS1-2-3-4	thermo 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 ¾"
L1-2-3-4	levels 1-2-3-4	G 1½"	G 1½"

Thread designations according to EN ISO 228-1!

IHWTs for combined DHW and CH systems: tank in tank

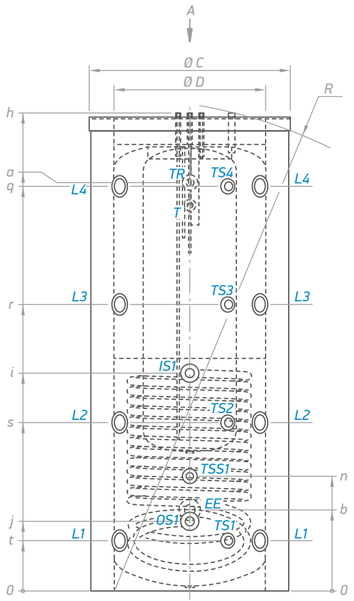
MODEL		V 15/7 S2 600 81 EV 150 40 C	V 12/9 S2 800 95 EV 200 45 C	V 15/9 S2 1000 95 EV 200 45 C	V 12/8 S2 1500 120 EV 300 55 C
Art. number	№	303868	303864	303877	303861
Actual capacity buffer tank	L	408	569	655	1109
Actual capacity hot water tank	L	151	191	191	296
Net weight	kg	203	264	298	390
Insulation	mm	80	80	80	100
Heat exchanger surface S1	m^2	2.25	2.89	3.3	3.47
Heat exchanger surface S2	m^2	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
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

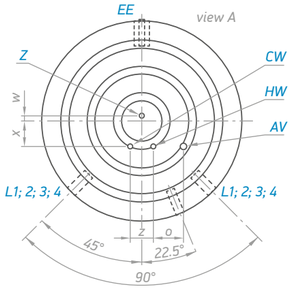


MODEL			V 15/7 S2 600 81 EV 150 40 C	V 12/9 S2 800 95 EV 200 45 C	V 15/9 S2 1000 95 EV 200 45 C	V 12/8 S2 1500 120 EV 300 55 C
CW	cold water inlet		G ½" B	G 1" B	G 1" B	G 1" B
HW	hot water outlet		G ½" B	G 1" B	G 1" B	G 1" B
IS1	heat exchanger inlet		G 1"	G 1½"	G 1½"	G 1½" B
IS2	heat exchanger inlet		G 1"	G 1"	G 1"	G 1½" B
OS1	heat exchanger outlet		G 1"	G 1½"	G 1½"	G 1½" B
OS2	heat exchanger outlet		G 1"	G 1"	G 1"	G 1½" B
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 pocket levels 1-2-3-4		G ½"	G ½"	G ½"	G ½"
TSS1-2	thermo 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
Dimensions ±5 mm						
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	810	950	950	1200
Ø D		mm	650	790	790	1000

Thread designations according to EN ISO 228-1!

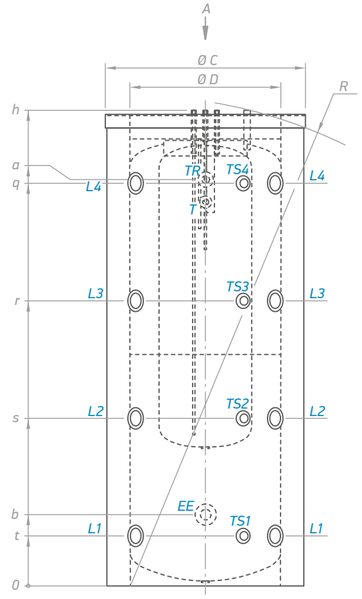
MODEL			V 15 S 600 81 EV 150 40 C	V 12 S 800 95 EV 200 45 C	V 15 S 1000 95 EV 200 45 C	V 12 S 1500 120 EV 300 55 C
Art. number		№	303866	303849	303876	303846
Capacity buffer tank		L	416	579	666	1134
Capacity hot water tank		L	151	191	191	296
Net weight		kg	188	241	274	353
Insulation		mm	80	80	80	100
Heat exchanger surface S1		m^2	2.25	2.89	3.3	3.47
Heat exchanger capacity S1		L	13.7	26.2	29	31.4
Heat losses ΔT45K		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
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

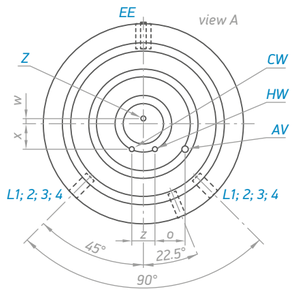




MODEL			V 15 S 600 81 EV 150 40 C	V 12 S 800 95 EV 200 45 C	V 15 S 1000 95 EV 200 45 C	V 12 S 1500 120 EV 300 55 C
CW	cold water inlet		G ½" B	G 1" B	G 1" B	G 1" B
HW	hot water outlet		G ½" B	G 1" B	G 1" B	G 1" B
IS1	heat exchanger inlet		G 1"	G 1½" B	G 1½" B	G 1½" B
OS1	heat exchanger outlet		G 1"	G 1½" B	G 1½" B	G 1½" B
Z	recirculation		G ½" B	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	Ø 14 x 1.5
TR	opening for thermoregulator		G ½"	G ½"	G ½"	G ½"
TS1-2-3-4	thermo pocket levels 1-2-3-4		G ½"	G ½"	G ½"	G ½"
TSS1	thermo 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
Dimensions ±5 mm						
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	810	950	950	1200
Ø D		mm	650	790	790	1000

Thread designations according to EN ISO 228-1!





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 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

Thread designations according to EN ISO 228-1!

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		№	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	80	80	80	100
Heat losses ΔT45K		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
Dimensions ±5 mm						
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	810	950	950	1200
Ø D		mm	650	790	790	1000

IHWTs for solar/boiler systems with elliptic heat exchanger/s

Indirectly heated water tanks for domestic hot water with patented construction of the heat exchanger which provides greater efficiency and power[1] without affecting the volume of the product.

The range includes models from 160 L to 500 L:

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

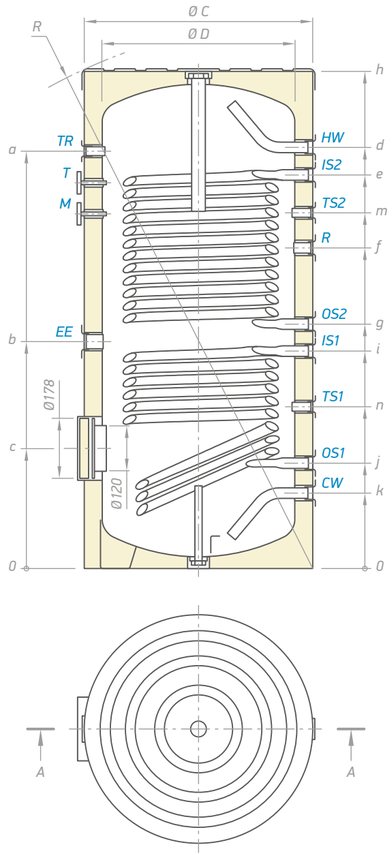
1 – Does not apply to all models. Ask your consultant about models with a higher output heat exchanger.

MODEL		EV 4/5 SE 160 60 10	EV 8/7 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	№	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	m^2	0.54	0.87	1.48	1.68	2.46
Heat exchanger surface S2	m^2	0.43	0.75	1.11	1.37	1.37
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
Exchanged power in continuous mode (max coil output) S1 *60-80 / 50-60°C	kW	8.9 / 5.0	18.6 / 11.0	33.0 / 18.2	40.1 / 22.8	32.9 / 18.3
Exchanged power in continuous mode (max coil output) S2 *60-80 / 50-60°C	kW	11.8 / 6.7	21.3 / 12.4	44.3 / 26.0	50.4 / 29.0	59.9 / 35.7
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80 / 50-60°C	L/h	219.2 / 122.4	459.0 / 270.0	811.0 / 446.7	986.2 / 561.4	808.0 / 449.9
Continuous flow rate of DHW at ΔT 35°C (S2) *60-80 / 50-60°C	L/h	290.8 / 163.6	526.0 / 305.0	1088 / 638.0	1243 / 716.5	1472 / 877.0
Heat losses ΔT 45K	W	51	59	68	91	95
Energy efficiency class		B	B	B	B	B
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	6	6	6	6	6
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 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 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 (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 (S2)	mbar / (L/min)	25.0 / 16.6	51.6 / 20.8	120.3 / 25.0	181.6 / 29.2	254.9 / 29.2
Performance index NL without additional heateng (S1)		1.8	3.2	6.4	13.0	17.8
Performance index NL without additional heateng (S1)		0.5	0.7	1.9	3.4	6.9

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

IHWTs for solar/boiler systems | **with two elliptic heat exchangers | 160 to 500 litres**

section A-A



MODEL		EV 4/5 SE 160 60 10	EV 8/7 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
CW	cold water inlet	G1"	G1"	G1"	G1"	G1"
HW	hot water outlet	G1"	G1"	G1"	G1"	G1"
IS1	heat exchanger inlet	G1"	G1"	G1"	G1"	G1"
IS2	heat exchanger inlet	G1"	G1"	G1"	G1"	G1"
OS1	heat exchanger outlet	G1"	G1"	G1"	G1"	G1"
OS2	heat exchanger outlet	G1"	G1"	G1"	G1"	G1"
R	recirculation	G ¾"	G ¾"	G ¾"	G ¾"	G ¾"
T	thermometer	Ø 14 x 1.5	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"	G ½"
TS1	thermo pocket level 1	G ½"	G ½"	G ½"	G ½"	G ½"
TS2	thermo pocket level 2	G ½"	G ½"	G ½"	G ½"	G ½"
TS3	thermo pocket level 3	G ½"	G ½"	G ½"	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"	G 1½"	G 1½"	G 1½"
Dimensions ±5 mm						
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

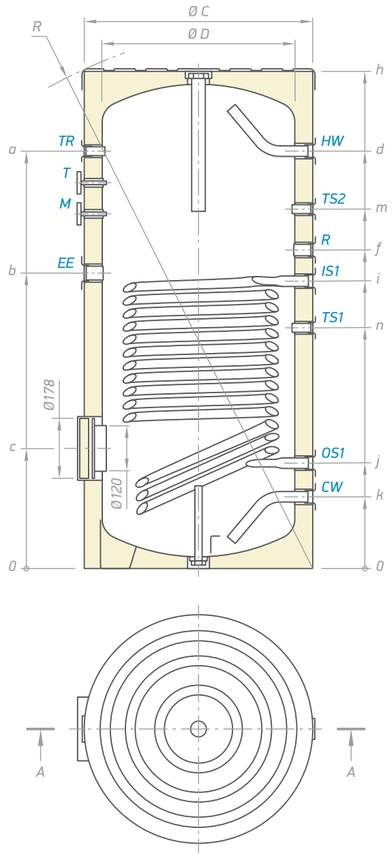
Thread designations according to EN ISO 228-1!

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	№	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	m^2	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
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	35.7 / 19.3	40.5 / 21.8	51.2 / 30.1	52.7 / 29.6	40.6 / 80.9
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	879.9 / 473.8	996.4 / 535	1258.1 / 740	1294 / 727	996 / 2013
Heat losses ΔT45K	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	6	6	6	6	6
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	445
Reheat time 10-60°C 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 m^3/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
Performance index NL without additional heating (S1)		1.65	3.2	6	12.2	19.8

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

IHWTs for solar/boiler systems | **with one elliptic heat exchanger | 160 to 500 litres**

section A-A



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
CW	cold water inlet	G1"	G1"	G1"	G1"	G1"
HW	hot water outlet	G1"	G1"	G1"	G1"	G1"
IS1	heat exchanger inlet	G1"	G1"	G1"	G1"	G1"
OS1	heat exchanger outlet	G1"	G1"	G1"	G1"	G1"
R	recirculation	G ¾"	G ¾"	G ¾"	G ¾"	G ¾"
T	thermometer	Ø 14 x 1.5	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"	G ½"
TS1	thermo pocket level 1	G ½"	G ½"	G ½"	G ½"	G ½"
TS2	thermo pocket level 2	G ½"	G ½"	G ½"	G ½"	G ½"
TS3	thermo pocket level 3	G ½"	G ½"	G ½"	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"	G 1½"	G 1½"	G 1½"
Dimensions ±5 mm						
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

Thread designations according to EN ISO 228-1!

IHWTs for heat pump systems

Floor-standing indirectly heated water tanks for domestic hot water with double heat exchangers with an internal collector and large surface, suitable for use in low-temperature heating systems with heat pumps and condensing boilers.

The range includes models:

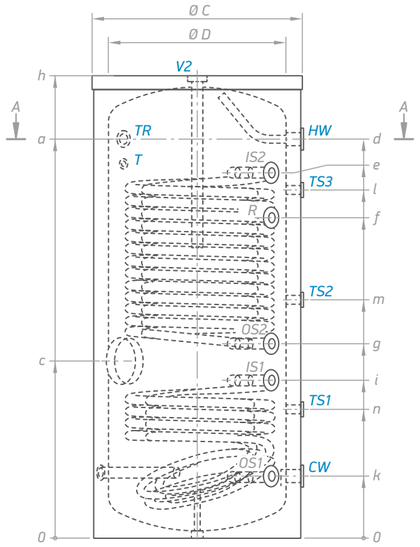
- from 200 L to 500 L with a double high output heat exchanger[1]
- from 200 L to 1000 L with two double high output heat exchangers[1]

1 - More information on pg. 33-36

MODEL		EV 2x4/2x9 S2 200 60	EV 2x5/2x12 S2 300 65	EV 2x6/2x13 S2 500 75	EV 2x9/2x17 S2 1000 101 C
Art. number	№	302168	302169	302170	304303
Capacity	L	185	269	459	921
Net weight	kg	57	116	172	314
Insulation (rigid PU)	mm	50	50	50	100 (Soft PU)
Heat exchanger surface S1	m^2	0.65	1	1.55	2.5
Heat exchanger surface S2	m^2	1.6	2.45	3.45	4.6
Heat exchanger capacity S1	L	4	6	9.3	14.4
Heat exchanger capacity S2	L	9.5	14.7	21	27.5
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	9.4 / 4.2	21.6 / 10.2	42 / 20.7	80.1 / 49.5
Exchanged power in continuous mode (max coil output) S2 *60-80°C / 50-60°C	kW	26.9 / 6.6	67.0 / 29.5	92.7 / 57	151.4 / 87.7
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	232 / 105	532 / 250	1023 / 506	1975 / 1975
Continuous flow rate of DHW at ΔT 35°C S2 *60-80°C / 50-60°C	L/h	652 / 162	1599 / 722	2260 / 1391	3732 / 2163
Heat losses ΔT45K	W	59	68	95	141
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	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)	13.6 / 20.8	19.5 / 25.0	28.8 / 29.2	51.8 / 50.0
Heat exchanger reheat performance P at flow rate of primary side (S2)	kW / (L/min)	26.8 / 20.8	41.0 / 25.0	54.8 / 29.2	81.6 / 50.0
V40 -hot water delivered with a temperature of at least 40°C (S1)	L	330.3	459.0	729.4	1354.7
V40 -hot water delivered with a temperature of at least 40°C (S2)	L	207.1	292.1	450.3	784.6
Reheat time 10-60°C rate at primary side (S1)	min / (L/min)	43.7 / 20.8	43.0 / 25.0	52.6 / 29.2	60.4 / 50.0
Reheat time 10-60°C rate at primary side (S2)	min / (L/min)	14.4 / 20.8	13.8 / 25.0	17.0 / 29.2	22.3 / 50.0
Coil Pressure drop at flow rate m^3/h (S1)	mbar / (L/min)	8.0 / 20.8	15.5 / 25.0	29.2 / 29.2	79.7 / 50.0
Coil Pressure drop at flow rate m^3/h (S2)	mbar / (L/min)	11.0 / 20.8	34.0 / 25.0	31.7 / 29.2	104.5 / 50.0
Performance index NL without additional heating (S1)		4.5	8.8	20.8	58.0
Performance index NL without additional heating (S2)		1.6	3.4	8.7	23.8

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

IHWTs for heat pump systems | **with two double high output heat exchangers | 200 to 1000 litres**



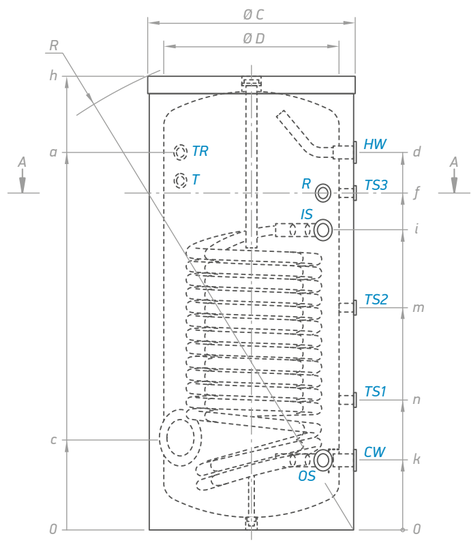
MODEL		EV 2x4/2x9 S2 200 60	EV 2x5/2x12 S2 300 65	EV 2x6/2x13 S2 500 75	EV 2x9/2x17 S2 1000 101 C
CW	cold water inlet	G 1"	G 1"	G 1"	G 1½"B
HW	hot water outlet	G 1"	G 1"	G 1"	G 1½"B
IS1	heat exchanger inlet	G 1"	G 1"	G 1"	G 1½"B
IS2	heat exchanger inlet	G 1"	G 1"	G 1"	G 1½"B
OS1	heat exchanger outlet	G 1"	G 1"	G 1"	G 1½"B
OS2	heat exchanger outlet	G 1"	G 1"	G 1"	G 1½"B
R	recirculation	G ¾"	G ¾"	G ¾"	G ¾"
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	thermo pocket level 1	G ½"	G ½"	G ½"	G ½"
TS2	thermo pocket level 2	G ½"	G ½"	G ½"	G ½"
TS3	thermo pocket level 3		G ½"	G ½"	G ½"
Dimensions ±5 mm					
h	mm	1202	1420	1670	2012
a	mm	996	1184	1447	1625
c	mm	483	533	642	734
d	mm	996	1184	1447	1846
e	mm	966	1150	1325	1625
f	mm	817	1055	1162	1374
g	mm	519	574	706	834
i	mm	434	485	572	637
j	mm	202	205	225	337
k	mm	202	205	225	81
l	mm	817	1055	1262	1374
m	mm	-	726	864	919
n	mm	360	398	467	470
R	mm	1345	1560	1823	2100
Ø C	mm	600	650	750	850
Ø D	mm	500	550	650	1010

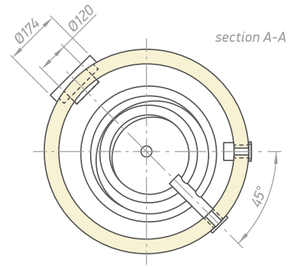
Thread designations according to EN ISO 228-1!

MODEL		EV 2x12S 200 60	EV 2x15S 300 65	EV 2X23S 500 75
Art. number	№	302166	301401	302167
Capacity	L	186	271	451
Net weight	kg	85	112	192
Insulation	mm	50	50	50
Heat exchanger surface S1	m^2	2.1	3	6
Heat exchanger capacity S1	L	12.5	18.3	33
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	52.3 / 23.9	88.2 / 40.0	... / 97.5
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	1275 / 581	2112 / 969	... / 2395
Heat losses ΔT45K	W	59	68	95
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)	kW / (L/min)	30.2 / 20.8	45.8 / 25.0	76.7 / 29.2
V40 -hot water delivered with a temperature of at least 40°C (S1)	L	302.7	450.5	662.3
Reheat time 10-60°C rate at primary side (S1)	min / (L/min)	19.1 / 20.8	18.3 / 25.0	16.8 / 29.2
Coil Pressure drop at flow rate m^3/h (S1)	mbar / (L/min)	15.4 / 20.8	20.0 / 25.0	58.3 / 29.2
Performance index NL without additional heating (S1)		3.7	8.2	17.6

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

IHWTs for heat pump systems | **with one double high output heat exchanger | 200 to 500 litres**





MODEL			EV 2x12S 200 60	EV 2x15S 300 65	EV 2X23S 500 75
CW	cold water inlet		G 1"	G 1"	G 1"
HW	hot water outlet		G 1"	G 1"	G 1"
IS1	heat exchanger inlet		G 1"	G 1"	G 1"
OS1	heat exchanger outlet		G 1"	G 1"	G 1"
R	recirculation		G ¾"	G ¾"	G ¾"
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	thermo pocket level 1		G ½"	G ½"	G ½"
TS2	thermo pocket level 2		G ½"	G ½"	G ½"
TS3	thermo pocket level 3		G ½"	G ½"	G ½"
Dimensions ±5 mm					
h		mm	1202	1420	1670
a		mm	996	1184	1447
c		mm	264	278	282
d		mm	996	1184	1447
f		mm	897	1055	1162
i		mm	792	937	1303
j		mm	202	205	225
k		mm	202	205	225
l		mm	897	1055	1162
m		mm	633	691	864
n		mm	360	398	467
R		mm	1345	1560	1823
Ø C		mm	600	650	750
Ø D		mm	500	550	650

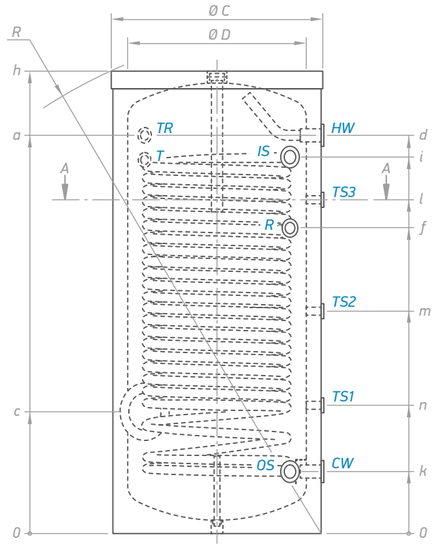
Thread designations according to EN ISO 228-1!

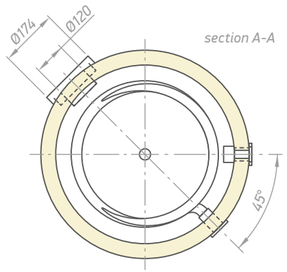
IHWTs for gas boiler systems

Floor-standing indirectly heated water tanks for domestic hot water with compact external dimensions, increased[1] surface of the internal powerful[2] heat exchanger and conveniently located sockets for easy[3] installation (120 L and 160 L). Suitable for installation under a wall-hung gas boiler or an electric boiler.

The range includes models from 120 L, 160 L with a heat exchanger as well as 300 L to 500 L with a single high output heat exchanger.

1 – Compared to models EV 8S 160 60 Z and EV 8S 120 55 Z
2 – More information on pg. 39-40
3 - Subject to compliance with the installation and commissioning requirements specified in the manufacturer's instructions





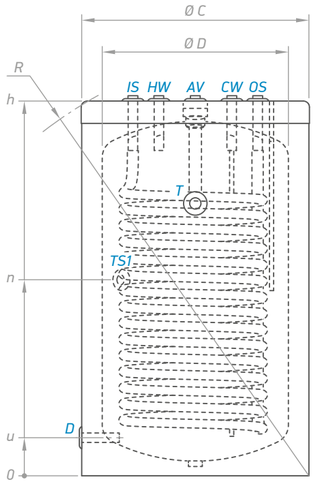
MODEL		EV 17S 300 65	EV 17S 400 75	EV 23S 500 75
Art. number	№	301397	301398	301400
Capacity	L	279	387	470
Net weight	kg	102	128	160
Insulation (rigid PU)	mm	50	50	50
Heat exchanger surface S1	m^2	2.1	2.55	3.4
Heat exchanger capacity S1	L	12.6	15.5	23.2
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	- / 38.7	- / 38.7	- / 56.5
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	- / 951	- / 951	- / 1415.5
Heat losses ΔT45K	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	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 rate at primary side (S1)	min / (L/min)	45796	19.6 / 29.2	18.8 / 29.2
Coil Pressure drop at flow rate m^3/h (S1)	mbar / (L/min)	110.2	44.6	160
Performance index NL without additional heating (S1)		6	10.3	13.6

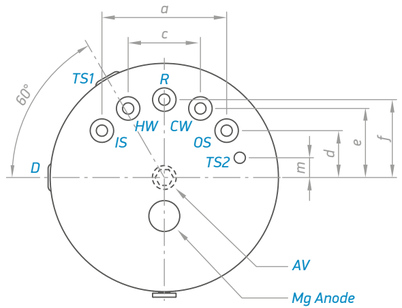
** - outlet - inlet temperature of the heat transfer fluid*
*** -10°C - cold water temperature, 60°C - hot water temperature (domestic water)*

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"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm				
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





MODEL		EV 10S 120 60 Z PS	EV 15S 160 60 Z PS
Art. number	№	304969	305077
Capacity	L	114	150
Net weight	kg	64	68
Insulation (rigid PU)	mm	50	50
Heat exchanger surface S1	m^2	1	1.52
Heat exchanger capacity S1	L	6.2	9.5
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	22.4 / 11.4	44.7 / 23.0
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	551 / 282	1104 / 568
Heat losses ΔT45K	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 rate at primary side (S1)	min / (L/min)	176.0 / 15.0	18.5 / 16.6
Coil Pressure drop at flow rate m^3/h (S1)	mbar/(L/min)	32.9 / 15.0	58.2 / 16.6
Performance index NL without additional heating (S1)		1.1	2.0

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

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 pocket 1	Ø10x1.5
TS2	thermo pocket 2	Ø16x1.5
D	drainage	G ½"

Thread designations according to EN ISO 228-1!

Dimensions ±5 mm			
h	mm	797	1001
a	mm	330	330
b	mm	-	-
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

IHWTs for solar/boiler systems for parallel installation

Advantages

IHWTs for solar/boiler systems in parallel installation

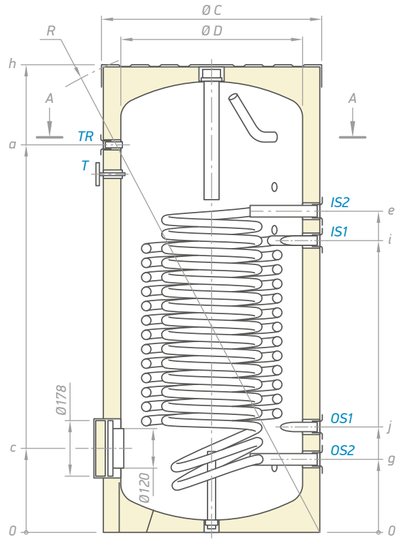
Floor-standing indirectly heated water tanks for domestic hot water with two integrated heat exchangers with a similar heat transfer surface, allowing the connection to two heat sources and the effective heating of the full volume of the water.
The range includes models of 200, 300 and 500 liters.

MODEL		EV 9S+13S 200 60	EV 13S+17S 300 60	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	m^2	0.95	1.55	1.8	1.8
Heat exchanger surface S2	m^2	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
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	26.4 / 13.6	44.4 / 23.3	39.9 / 20.8	44.6 / 24.4
Exchanged power in continuous mode (max coil output) S2 *60-80°C / 50-60°C	kW	25.3 / 12.4	40.9 / 21.3	46.0 / 24.0	51.1 / 25.6
Exchanged power in continuous mode (max coil output) S1+S2 *60-80°C / 50-60°C	kW	51.9 / 27	86.9 / 44.8	89.7 / 46.7	97.5 / 50.1
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	652 / 335	1096 / 570	992 / 510	1098.6 / 602.7
Continuous flow rate of DHW at ΔT 35°C S2 *60-80°C / 50-60°C	L/h	622 / 305	1010 / 524	1146 / 596	1265.5 / 628.7
Continuous flow rate of DHW at ΔT 35°C S1+S2 *60-80°C / 50-60°C	L/h	1281 / 671	2141 / 1100	2192 / 1152	2410.3 / 1244.4
Continuous flow rate of CW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	1135 / 1165	1908.3 / 1994.8	1720 / 1792	1916.2 / 2140.2
Continuous flow rate of CW at ΔT 35°C S2 *60-80°C / 50-60°C	L/h	1088 / 1061	1760.8 / 1830.7	1985 / 2069	2495.8 / 2185
Continuous flow rate of CW at ΔT 35°C S1+S2 *60-80°C / 50-60°C	L/h	2236 / 2327	3742.8 / 3834.8	3853 / 4013	4194.6 / 4339.5
Heat losses ΔT45K	W	59	68	68	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	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)	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 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 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 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 m^3/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 (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 (S1+S2)	mbar / (L/min)	49.8 / 20.8	71.1 / 25.0	115.1 / 29.2	101.6 / 29.2
Performance index NL without additional heating (S1)		2.8	6	11.6	18.8
Performance index NL without additional heating (S2)		3.4	6.8	12.6	20.6
Performance index NL without additional heating (S1+S2)		3.6	7.2	13	20.8

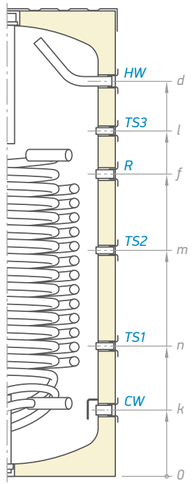
** - outlet - inlet temperature of the heat transfer fluid*
*** -10°C - cold water temperature, 60°C - hot water temperature (domestic water)*

IHWTs for solar/boiler systems for parallel installation | **with two integrated heat exchangers | 200 to 500 litres**

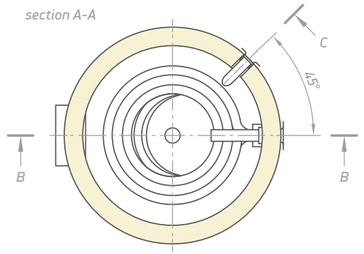
section B-B



section C-C



section A-A



MODEL			EV 9S+13S 200 60	EV 13S+17S 300 60	EV 12S+17S 400 75	EV 12S+17S 500 75
CW	cold water inlet		G1"	G1"	G1"	G1"
HW	hot water outlet		G1"	G1"	G1"	G1"
IS1	heat exchanger inlet		G1"	G1"	G1"	G1"
IS2	heat exchanger inlet		G1"	G1"	G1"	G1"
OS1	heat exchanger outlet		G1"	G1"	G1"	G1"
OS2	heat exchanger outlet		G1"	G1"	G1"	G1"
R	recirculation		G ¾"	G ¾"	G ¾"	G ¾"
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	thermo pocket level 1		G ½"	G ½"	G ½"	G ½"
TS2	thermo pocket level 2		G ½"	G ½"	G ½"	G ½"
TS3	thermo pocket level 3		G ½"	G ½"	G ½"	G ½"
Dimensions ±5 mm						
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

Thread designations according to EN ISO 228-1!

IHWTs for solar/boiler systems

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

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

- without a heat exchanger
- with one heat exchanger
- with two heat exchangers

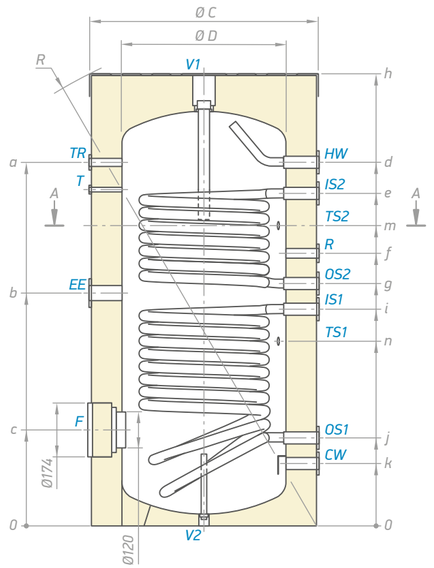
MODEL		EV 7/5 S2 200 65	EV 10/7 S2 300 75
Art. number	№	302653	302654
Capacity	L	192	279
Net weight	kg	68	95
Insulation (rigid PU)	mm	75	100
Heat exchanger surface S1	m^2	0.75	1.21
Heat exchanger surface S2	m^2	0.54	0.85
Heat exchanger capacity S1	L	4.6	7.4
Heat exchanger capacity S2	L	3.3	5.2
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	20 / 10.2	32.4 / 16
Exchanged power in continuous mode (max coil output) S2 *60-80°C / 50-60°C	kW	12.9 / 6.6	19.1 / 10.4
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	496 / 252	798 / 409
Continuous flow rate of DHW at ΔT 35°C S2 *60-80°C / 50-60°C	L/h	316 / 162	469 / 262
Heat losses ΔT45K	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 rate at primary side (S1)	min / (L/min)	36.5 / 20.8	35.9 / 25.0
Reheat time 10-60°C rate at primary side (S2)	min / (L/min)	22.8 / 20.8	23.85 / 25.0
Coil Pressure drop at flow rate m^3/h (S1)	mbar / (L/min)	21.3 / 20.8	73.7 / 25.0
Coil Pressure drop at flow rate (S2)	mbar / (L/min)	14.6 / 20.8	54.0 / 25.0
Performance index NL without additional heating (S1)		3.8	7.9
Performance index NL without additional heating (S2)		0.8	1.8

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

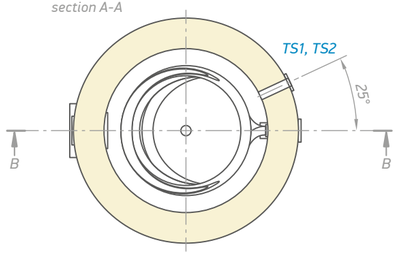
IHWTs for solar/boiler systems EEC A | **with two heat exchangers | 200 to 300 litres**

A

section B-B



section A-A



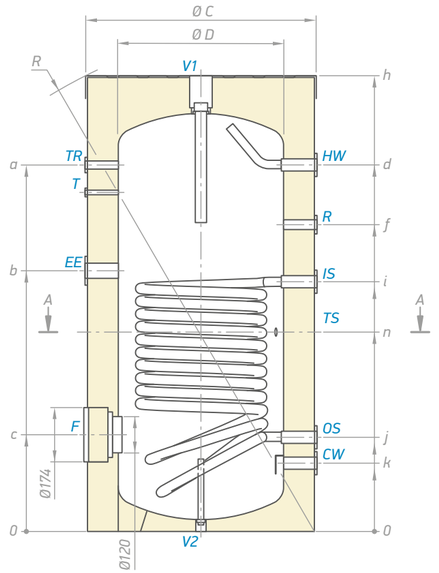
MODEL		EV 9 S 200 65	EV 12 S 300 75
CW	cold water inlet	G 1"	G 1"
HW	hot water outlet	G 1"	G 1"
IS1	heat exchanger inlet	G 1"	G 1"
IS2	heat exchanger inlet	G 1"	G 1"
OS1	heat exchanger outlet	G 1"	G 1"
OS2	heat exchanger outlet	G 1"	G 1"
R	recirculation	G ¾"	G ¾"
T	thermometer	Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"	G ½"
TS1	thermo pocket level 1	G ½"	G ½"
TS2	thermo pocket level 2	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"
Dimensions ±5 mm			
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

Thread designations according to EN ISO 228-1!

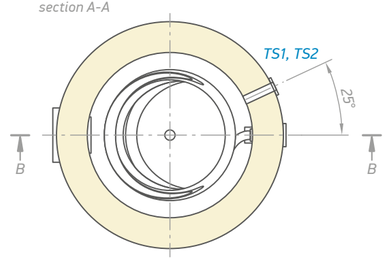
MODEL		EV 9S 200 65	EV 12S 300 75
Art. number	№	302733	302731
Capacity	L	195	283
Net weight	kg	68	95
Insulation (rigid PU)	mm	75	100
Heat exchanger surface S1	m^2	96	1.45
Heat exchanger capacity S1	L	5.8	8.8
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	26.2 / 14.1	41.3 / 19.5
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	657 / 346	1024.3 / 477.8
Heat losses ΔT45K	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 rate at primary side (S1)	min / (L/min)	29.0 / 20.8	30.35 / 25.0
Coil Pressure drop at flow rate m^3/h (S1)	mbar / (L/min)	31.0 / 20.8	87.5 / 25.0
Performance index NL without additional heating (S1)		3.6	8.1

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

section B-B



section A-A

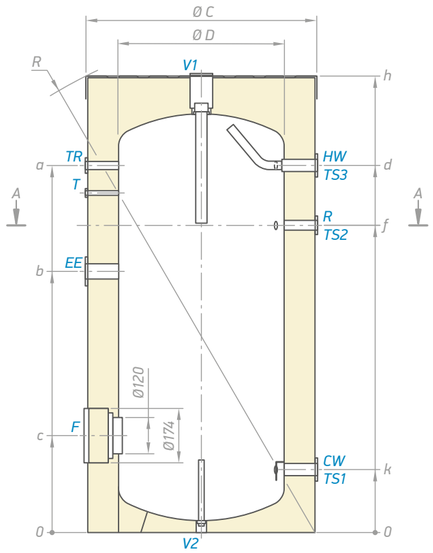


MODEL			EV 9S 200 65	EV 12S 300 75
CW	cold water inlet		G 1"	G 1"
HW	hot water outlet		G 1"	G 1"
IS1	heat exchanger inlet		G 1"	G 1"
OS1	heat exchanger outlet		G 1"	G 1"
R	recirculation		G ¾"	G ¾"
T	thermometer		Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator		G ½"	G ½"
TS1	thermo pocket level 1		G ½"	G ½"
EE	opening for electric element		G 1½"	G 1½"
Dimensions ±5 mm				
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

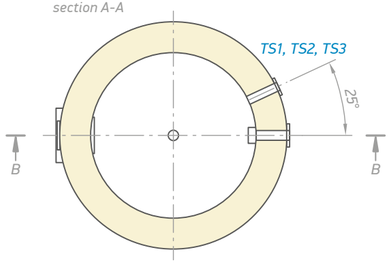
Thread designations according to EN ISO 228-1!

A

section B-B



section A-A



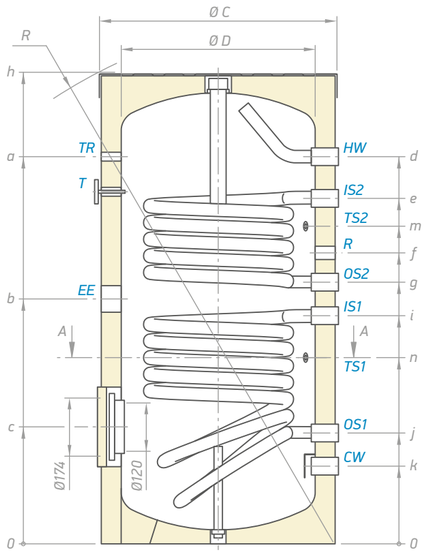
MODEL		EV 200 65	EV 300 75
Art. number	№	302732	302730
Capacity	L	202	294
Net weight	kg	48	69
Insulation (rigid PU)	mm	75	100
Heat losses ΔT45K	W	41	46
Energy efficiency class		A	A
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8
Dimensions ±5 mm			
h	mm	1247	1495
a	mm	993	1207
b	mm	714	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

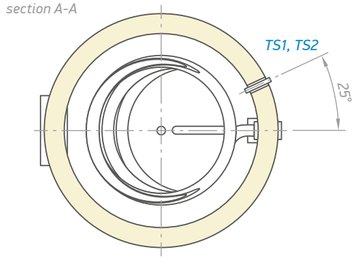
MODEL		EV 200 65	EV 300 75
CW	cold water inlet	G 1"	G 1"
HW	hot water outlet	G 1"	G 1"
R	recirculation	G ¾"	G ¾"
T	thermometer	Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"	G ½"
TS1	thermo pocket level 1	G ½"	G ½"
TS2	thermo pocket level 2	G ½"	G ½"
TS3	thermo pocket level 3	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"

Thread designations according to EN ISO 228-1!

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	№	302165	301407	301391	301393	301396
Capacity (rigid PU)	L	154	192	279	388	472
Net weight	kg	66	70	100	146	158
Insulation	mm	50	50	50	50	50
Heat exchanger surface S1	m^2	0.61	0.75	1.21	1.65	2.25
Heat exchanger surface S2	m^2	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
Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C	kW	17.1 / 9.0	20 / 10.2	32.4 / 16	47.5 / 22.4	73.8 / 40.2
Exchanged power in continuous mode (max coil output) S2 *60-80°C / 50-60°C	kW	10.2 / 5.8	12.9 / 6.6	19.1 / 10.4	19 / 8.6	30.6 / 16.8
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C	L/h	430.3 / 224.2	496 / 252	798 / 409	1172 / 551.8	1817 / 993
Continuous flow rate of DHW at ΔT 35°C S2 *60-80°C / 50-60°C	L/h	256.3 / 143.2	316 / 162	469 / 262	467.3 / 210.8	750 / 410
Heat losses ΔT45K	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 m^3/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 (S2)	mbar / (L/min)	7.9 / 16.6	14.6 / 20.8	54.0 / 25.0	65.1 / 29.2	49.8 / 29.2
Performance index NL without additional heating (S1)		2.4	3.8	7.9	14.2	18.7
Performance index NL without additional heating (S2)		0.4	0.8	1.8	2.6	3.3

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



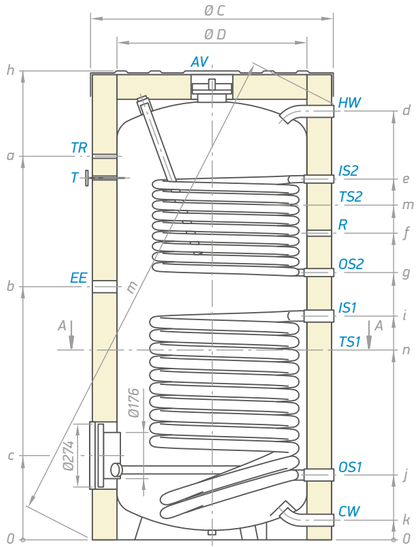


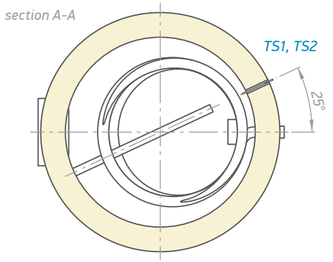
MODEL			EV 6/4 S2 160 60	EV 7/5 S2 200 60	EV 10/7 S2 300 65	EV 11/5 S2 400 75	EV 15/7 S2 500 75
CW	cold water inlet		G 1"	G 1"	G 1"	G 1"	G 1"
HW	hot water outlet		G 1"	G 1"	G 1"	G 1"	G 1"
IS1	heat exchanger inlet		G 1"	G 1"	G 1"	G 1"	G 1"
IS2	heat exchanger inlet		G 1"	G 1"	G 1"	G 1"	G 1"
OS1	heat exchanger outlet		G 1"	G 1"	G 1"	G 1"	G 1"
OS2	heat exchanger outlet		G 1"	G 1"	G 1"	G 1"	G 1"
R	recirculation		G ¾"	G ¾"	G ¾"	G ¾"	G ¾"
T	thermometer		Ø 14 x 1.5	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"	G ½"
TS1	thermo pocket level 1		G ½"	G ½"	G ½"	G ½"	G ½"
TS2	thermo pocket level 2		G ½"	G ½"	G ½"	G ½"	G ½"
EE	opening for electric element		G 1½"	G 1½"	G 1½"	G 1½"	G 1½"
Dimensions ±5 mm							
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	12074	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

Thread designations according to EN ISO 228-1!

MODEL			EV 12/9S2 800 95 F43 TP2-C	EV 13/7S2 1000 101 F44 TP2-C	EV 12/8 S2 1500 120 F45 TP2-C	EV 15/9 S2 2000 130 F46 TP2-C
Art. number		Nº	303827	303831	303826	303833
Capacity		L	757	932	1414	1822
Net weight		kg	252	279	408	486
Insulation		mm	80	80	100	100
Heat exchanger surface S1		m^2	2.89	3.45	3.3	4.5
Heat exchanger surface S2		m^2	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
"Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C"		kW	79.2 / 43.8	96.6 / 55	140 / 80	174 / 83
"Exchanged power in continuous mode (max coil output) S2 *60-80°C / 50-60°C"		kW	41.4 / 23.9	37.9 / 21.6	95.3 / 50	105 / 60
Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C		L/h	1945 / 1076	2371 / 1352	6020 / 6880	4181 / 1968
Continuous flow rate of DHW at ΔT 35°C S2 *60-80°C / 50-60°C		L/h	1016 / 589	929 / 538	4097 / 4300	2616 / 1474
Heat losses ΔT45K		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)			94.5 / 100	113.1 / 100
Heat exchanger reheat performance P at flow rate of primary side (S2)		kW / (L/min)			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	447.1	604	714.1	940
Reheat time 10-60°C 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 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 m^3/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
Performance index NL without additional heating (S1)			42	61.6	70	94
Performance index NL without additional heating (S2)			8.4	15	18	31

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



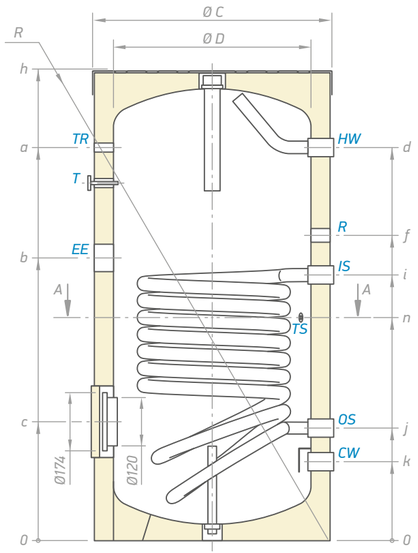


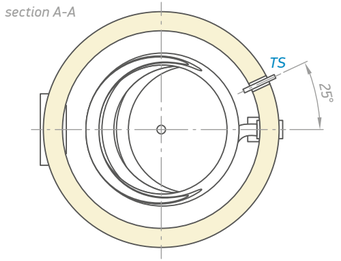
MODEL		EV 12/9S2 800 95 F43 TP2-C	EV 13/7S2 1000 101 F44 TP2-C	EV 12/8 S2 1500 120 F45 TP2-C	EV 15/9 S2 2000 130 F46 TP2-C
CW	cold water inlet	G 1½"B	G 1½"B	G 2"B	G 2"B
HW	hot water outlet	G 1½"B	G 1½"B	G 2"B	G 2"B
IS1	heat exchanger inlet	G 1½"B	G 1½"B	G 1½"B	G 1½"B
IS2	heat exchanger inlet	G 1"B	G 1"B	G 1½"B	G 1½"B
OS1	heat exchanger outlet	G 1½"B	G 1½"B	G 1½"B	G 1½"B
OS2	heat exchanger outlet	G 1"B	G 1"B	G 1½"B	G 1½"B
R	recirculation	G ¾"	G ¾"	G 1½"	G 1½"
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	thermo pocket level 1	G ½"	G ½"	G ½"	G ½"
TS2	thermo pocket level 2	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 ¾"	G ¾"	G ¾"	G ¾"
Dimensions ±5 mm					
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	950	1010	1200	1300
Ø D	mm	790	850	1000	1100

Thread designations according to EN ISO 228-1!

MODEL		EV 9S 160 60	EV 9S 200 60	EV 12S 300 65	EV 11S 400 75	EV 15S 500 75
Art. number	№	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	m^2	0.96	0.96	1.45	1.65	2.25
Heat exchanger capacity S1	L	5.8	5.8	8.8	10	13.7
*Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C*	kW	28.2 / 15.0	26.2 / 14.1	41.3 / 19.5	48.8 / 23.8	78 / 40.6
*Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C*	L/h	697 / 371	657 / 346	1024.3 / 477.8	1203.4 / 587.5	1913 / 996
Heat losses ΔT45K	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 m^3/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
Performance index NL without additional heating (S1)	-	1.55	3.6	8.1	14.6	19.2

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



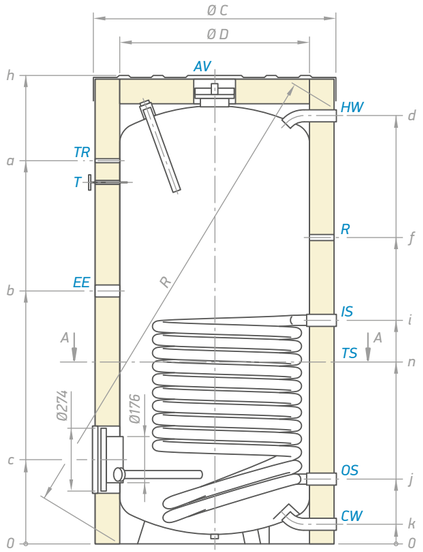


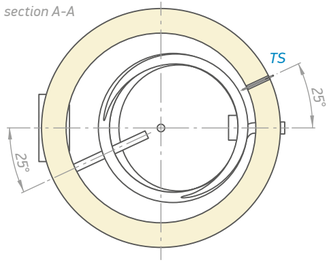
MODEL			EV 6/4 S2 160 60	EV 7/5 S2 200 60	EV 10/7 S2 300 65	EV 11/5 S2 400 75	EV 15/7 S2 500 75
CW	cold water inlet		G 1"	G 1"	G 1"	G 1"	G 1"
HW	hot water outlet		G 1"	G 1"	G 1"	G 1"	G 1"
IS1	heat exchanger inlet		G 1"	G 1"	G 1"	G 1"	G 1"
OS1	heat exchanger outlet		G 1"	G 1"	G 1"	G 1"	G 1"
R	recirculation		G ¾"	G ¾"	G ¾"	G ¾"	G ¾"
T	thermometer		Ø 14 x 1.5	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"	G ½"
TS1	thermo pocket level 1		G ½"	G ½"	G ½"	G ½"	G ½"
EE	opening for electric element		G 1½"	G 1½"	G 1½"	G 1½"	G 1½"
Dimensions ±5 mm							
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

Thread designations according to EN ISO 228-1!

MODEL		EV 12S 800 95 F43 TP-C	EV 13S 1000 101 F44 TP-C	EV 12S 1500 120 F45 TP-C	EV 15S 2000 130 F46 TP-C
Art. number	№	303824	303828	303823	303832
Capacity	L	768	932	1439	1853
Net weight	kg	221	233	371	442
Insulation	mm	80	80	100	100
Heat exchanger surface S1	m^2	2.89	3.45	3.3	4.5
Heat exchanger capacity S1	L	26.2	31.3	30.4	41.6
"Exchanged power in continuous mode (max coil output) S1 *60-80°C / 50-60°C"	kW	79.2 / 43.8	96.6 / 55	140 / 80	174 / 83
"Continuous flow rate of DHW at ΔT 35°C S1 *60-80°C / 50-60°C"	L/h	1945 / 1076	2371 / 1352	6020 / 6880	4181 / 1968
Heat losses ΔT45K	W	129	142	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	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)			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 rate at primary side (S1)	min / (L/min)	48.85 / 50.0	50.15 / 50.0	45.3 / 100	57.26 / 100
Coil Pressure drop at flow rate m^3/h (S1)	mbar / (L/min)	69.0 / 50.0	82.6 / 50.0	222.14 / 100	294.8 / 100
Performance index NL without additional heating (S1)	-	42	61.6	70	94

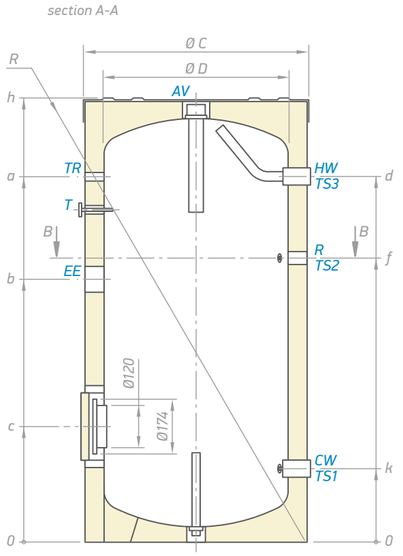
** - outlet - inlet temperature of the heat transfer fluid*
*** -10°C - cold water temperature, 60°C - hot water temperature (domestic water)*

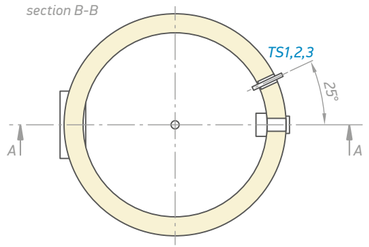




MODEL		EV 12S 800 95 F43 TP-C	EV 13S 1000 101 F44 TP-C	EV 12S 1500 120 F45 TP-C	EV 15S 2000 130 F46 TP-C
CW	cold water inlet	G 1½"B	G 1½"B	G 2"B	G 2"B
HW	hot water outlet	G 1½"B	G 1½"B	G 2"B	G 2"B
IS1	heat exchanger inlet	G 1½"B	G 1½"B	G 1½"B	G 1½"B
OS1	heat exchanger outlet	G 1½"B	G 1½"B	G 1½"B	G 1½"B
R	recirculation	G ¾"	G ¾"	G 1½"	G 1½"
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	thermo pocket level 1	G ½"	G ½"	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"	G 1½"	G 1½"
Dimensions ±5 mm					
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	950	1010	1200	1300
Ø D	mm	790	850	1000	1100

Thread designations according to EN ISO 228-1!

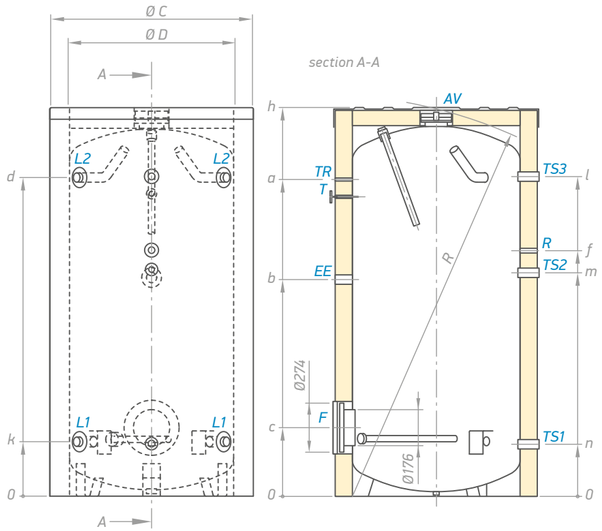


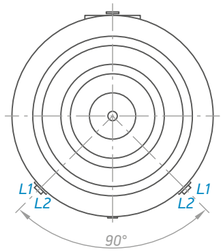


MODEL		EV 200 60	EV 300 65	EV 400 75	EV 500 75
Art. number	№	301399	301402	301405	301406
Capacity	L	202	294	406	497
Net weight	kg	45	66	117	125
Insulation	mm	50	50	50	50
Heat losses ΔT45K	W	59	68	91	95
Energy efficiency class		B	B	C	C
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	8	8	8	8
Dimensions ±5 mm					
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	EV 300 65	EV 400 75	EV 500 75
CW	cold water inlet	G 1"	G 1"	G 1"	G 1"
HW	hot water outlet	G 1"	G 1"	G 1"	G 1"
R	recirculation	G ¾"	G ¾"	G ¾"	G ¾"
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	thermo pocket level 1	G ½"	G ½"	G ½"	G ½"
TS2	thermo pocket level 2	G ½"	G ½"	G ½"	G ½"
TS3	thermo pocket level 3	G ½"	G ½"	G ½"	G ½"
EE	opening for electric element	G ½"	G 1½"	G 1½"	G 1½"

Thread designations according to EN ISO 228-1!

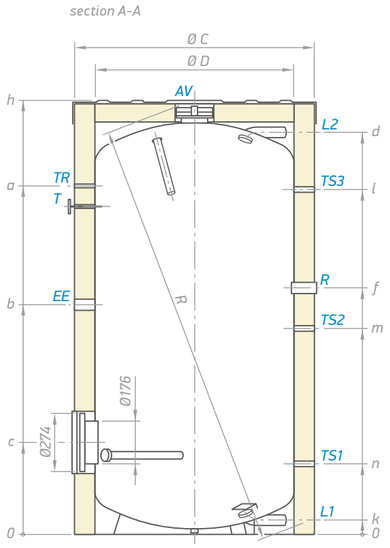


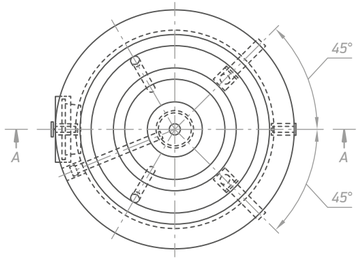


MODEL		EV 800 95 B - C	EV 1000 101 B - C
Art. number	№	303942	303941
Capacity	L	796	974
Net weight	kg	175	211
Insulation	mm	80	80
Heat losses ΔT45K	W	129	141
Energy efficiency class		C	C
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8
Dimensions ±5 mm			
h	mm	1947	2012
a	mm	1591	1656
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	950	1010
Ø D	mm	790	850

MODEL		EV 800 95 B - C	EV 1000 101 B - C
R	recirculation	G ¾"	G ¾"
T	thermometer	Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"	G ½"
TS1-2-3	thermo pocket levels 1-2-3	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"
AV	opening for air ventilation	G ¾"	G ¾"
L1-2	levels 1-2	G 1½"B	G 1½"B

Thread designations according to EN ISO 228-1!





MODEL		EV 1500 120 B C	EV 2000 130 B C
Art. number	№	304331	304332
Capacity	L	1475	1904
Net weight	kg	338	388
Insulation	mm	100	100
Heat losses ΔT45K	W	158	183
Energy efficiency class		C	C
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8
Dimensions ±5 mm			
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

MODEL		EV 1500 120 B C	EV 2000 130 B C
R	recirculation	G 1½"	G 1½"
T	thermometer	Ø 14 x 1.5	Ø 14 x 1.5
TR	opening for thermoregulator	G ½"	G ½"
TS1-2-3	thermo pocket levels 1-2-3	G ½"	G ½"
EE	opening for electric element	G 1½"	G 1½"
AV	opening for air ventilation	G ¾"	G ¾"
L1-2	levels 1-2	G 2"B	G 2"B

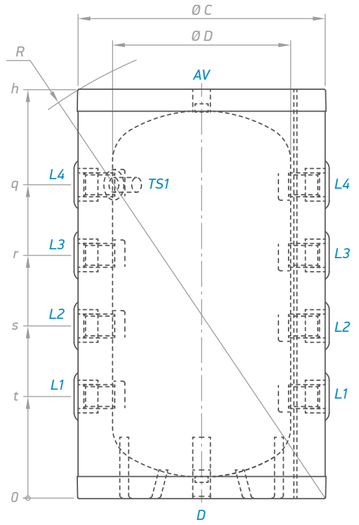
Thread designations according to EN ISO 228-1!

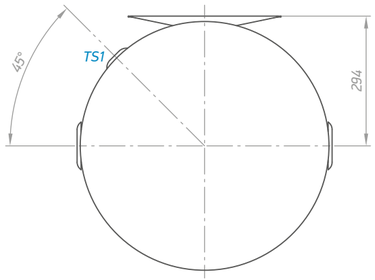
IHWTs - buffer tanks for AC systems

Buffer tanks specifically developed for integration in cooling systems, with a construction for limiting the condensation when operating of low temperatures.

The range includes 100 L, 160 L and 200 L models without heat exchanger:

- for wall installation
- floor-standing

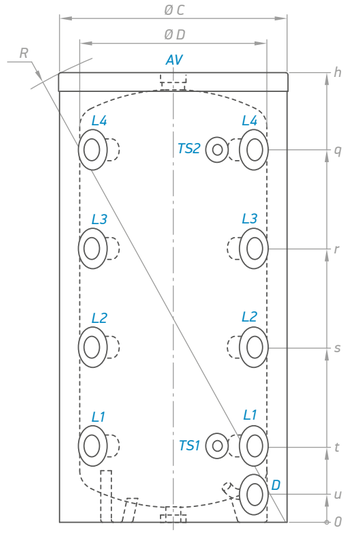


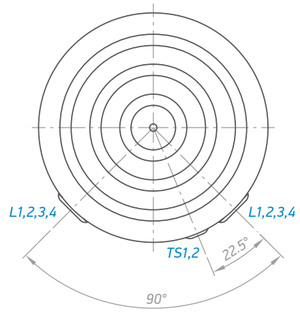


MODEL		VH 100 55 - AC
Art. number	№	303566
Capacity	L	101
Net weight	kg	34
Insulation (rigid PU)	mm	73
Heat losses ΔT45K	W	34
Energy efficiency class		A
Maximum operational temperature	°C	95
Rated pressure	bar	3
Dimensions ±5 mm		
h	mm	932
q	mm	710
r	mm	550
s	mm	390
t	mm	230
u	mm	-
R	mm	1081
Ø C	mm	550
Ø D	mm	404

MODEL		VH 100 55 - AC
TS1	thermo pocket level 1	G ½"
TS2	thermo pocket level 2	G ½"
TS3	thermo pocket level 3	G ½"
TS4	thermo pocket level 4	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!





MODEL		V 160 60 - AC	V 200 60 - AC
Art. number	№	303564	303565
Capacity	L	163	202
Net weight	kg	40	44
Insulation / (rigid PU)	mm	50	50
Heat losses ΔT45K	W	49	56
Energy efficiency class		B	B
Maximum operational temperature	°C	95	95
Rated pressure	bar	3	3
Dimensions ±5 mm			
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

MODEL		V 160 60 - AC	V 200 60 - AC
TS1	thermo pocket level 1	G ½"	G ½"
TS2	thermo pocket level 2	G ½"	G ½"
TS3	thermo pocket level 3	G ½"	G ½"
TS4	thermo pocket level 4	G ½"	G ½"
AV	opening for air ventilation	G 1½"	G 1½"
D	Drainage	G ¾" B	G ¾" B
L1	Level 1	G 1½"	G 1½"
L2	Level 2	G 1½"	G 1½"
L3	Level 3	G 1½"	G 1½"
L4	Level 4	G 1½"	G 1½"

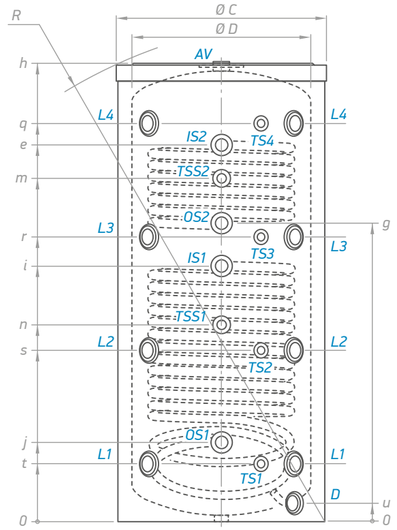
Thread designations according to EN ISO 228-1!

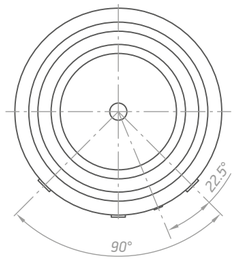
IHWTs - buffer tanks for heating systems

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

The range includes models form 200 L to 2000 L:

- without a heat exchanger
- with one heat exchanger
- with two heat exchangers

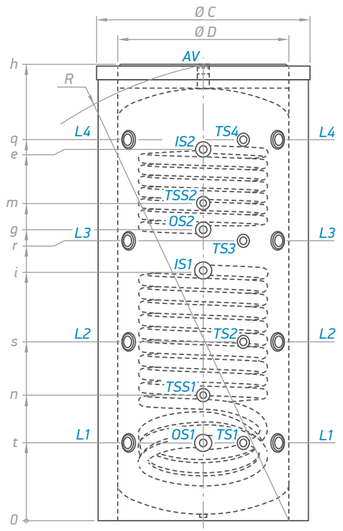


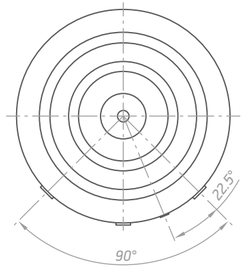


MODEL		V 11/5 S2 400 75 F42 P6	V15/7 S2 500 75 F42 P6
Art. number	Nº	300613	300625
Capacity	L	388	472
Net weight	kg	140	149.5
Insulation (rigid PU)	mm	50	50
Heat exchanger surface S1	m^2	1.65	2.25
Heat exchanger surface S2	m^2	0.76	1.04
Heat exchanger capacity S1	L	10	13.7
Heat exchanger capacity S2	L	4.6	6.4
Heat losses ΔT45K	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
Dimensions ±5 mm			
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

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 pocket levels 1-2-3-4	G ½"
TSS1	thermo pocket heat exchanger	G ½"
TSS2	thermo 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!

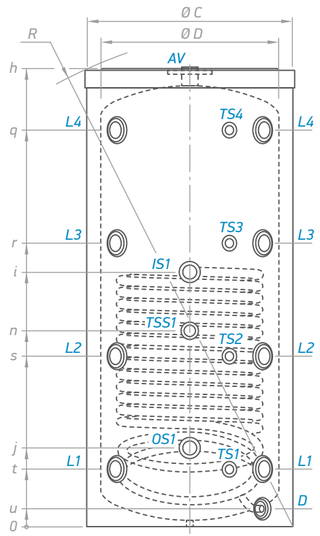


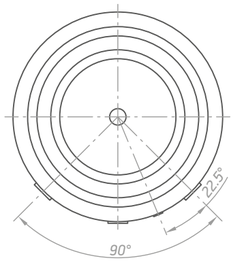


MODEL		V 12/9 S2 800 95 F43 P6 C	V 15/9 S2 1000 95 C	V 12/8 S2 1500 120 F45 P6 C	V 15/9 S2 2000 130 F46 P6 C
Art. number	Nº	303891	303900	303890	303870
Capacity	L	766	855	1415	1822
Net weight	kg	191	206	308	405
Insulation	mm	80	80	100	100
Heat exchanger surface S1	m^2	2.89	3.45	3.47	4.5
Heat exchanger surface S2	m^2	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 ΔT45K	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
Dimensions ±5 mm					
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	950	950	1200	1300
Ø D	mm	790	790	1000	1100

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
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 pocket levels 1-2-3-4	G ½"	G ½"
TSS1-2	thermo 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!

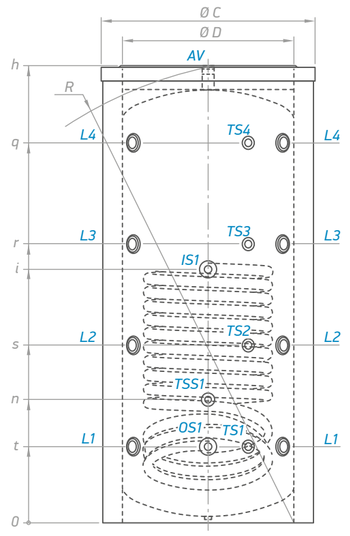


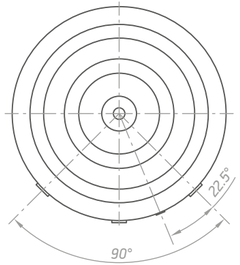


MODEL		V 9S 200 60	V 12S 300 65	V 11S 400 75 F42 P5	V 15S 500 75 F42 P5
Art. number	№	302172	302173	300612	300624
Capacity	L	195	283	394	480
Net weight	kg	55	82	131	138
Insulation (rigid PU)	mm	50	50	50	50
Heat exchanger surface S1	m^2	0.96	1.45	1.65	2.25
Heat exchanger capacity S1	L	5.8	8.8	10	13.7
Heat losses ΔT45K	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
Dimensions ±5 mm					
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 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 pocket levels 1-2-3-4	G ½"	G ½"
TSS1	thermo 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!



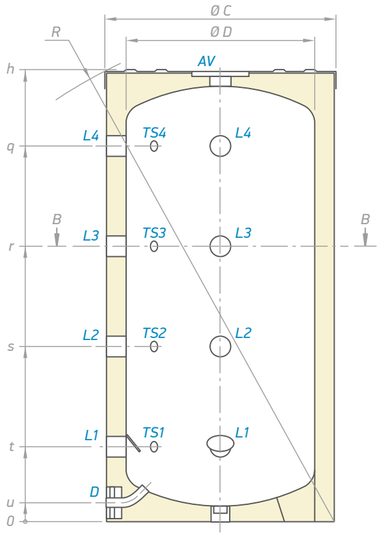


MODEL		V 12S 800 95 F43 P5 C	V 15S 1000 95 C	V 12S 1500 120 F45 P5 C	V 15S 2000 130 F46 P5 C
Art. number	№	303889	303899	303887	303892
Capacity	L	776	866	1439	1853
Net weight	kg	169	198	265	360
Insulation	mm	80	80	100	100
Heat exchanger surface S1	m^2	2.89	3.45	3.47	4.5
Heat exchanger capacity S1	L	26.2	31.3	31.4	41.6
Heat losses ΔT45K	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
Dimensions ±5 mm					
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	950	950	1200	1300
Ø D	mm	790	790	1000	1100

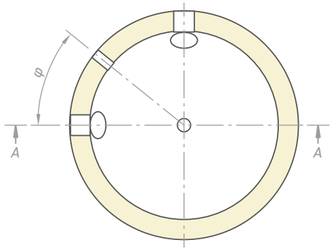
MODEL		V 12S 800 95 F43 P5 C V 15S 1000 95 C	V 12S 1500 120 F45 P5 C V 15S 2000 130 F46 P5 C
IS1	heat exchanger inlet	G 1½" B	G 1½" B
OS1	heat exchanger outlet	G 1½" B	G 1½" B
TS1-2-3-4	thermo pocket levels 1-2-3-4	G ½"	G ½"
TSS1	thermo pocket heat exchanger	G ½"	G ½"
AV	opening for air ventilation	G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

section A-A



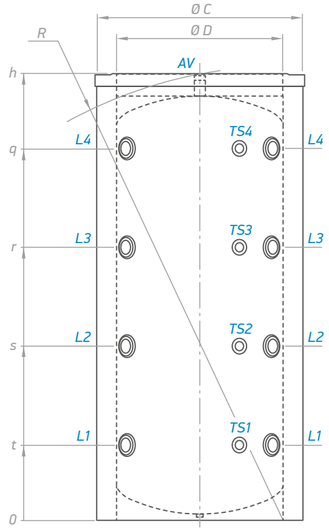
section B-B

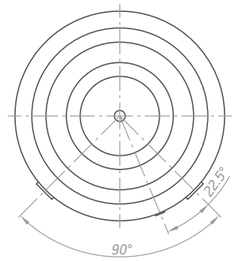


MODEL		V 200 60 F40 P4	V 300 65 F41 P4	V 400 75 F42 P4	V 500 75 F42 P4
Art. number	№	300632	300634	300635	300636
Capacity	L	202	294	406	497
Net weight	kg	40	59	113.5	121
Insulation (rigid PU)	mm	50	50	50	50
Heat losses ΔT45K	W	59	68	91	95
Energy efficiency class		B	B	C	C
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	3	3	3	3
Dimensions ±5 mm					
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 200 60 F40 P4	V 300 65 F41 P4	V 400 75 F42 P4	V 500 75 F42 P4
TS1	thermo pocket level 1	G ½"	G ½"	G ½"	G ½"
TS2	thermo pocket level 2	G ½"	G ½"	G ½"	G ½"
TS3	thermo pocket level 3	G ½"	G ½"	G ½"	G ½"
TS4	thermo pocket level 4	G ½"	G ½"	G ½"	G ½"
AV	opening for air ventilation	G 1½"	G 1½"	G 1½"	G 1½"
D	drainage	G ¾"	G ¾"	G ¾"	G ¾"
L1	level 1	G 1½"	G 1½"	G 1½"	G 1½"
L2	level 2	G 1½"	G 1½"	G 1½"	G 1½"
L3	level 3	G 1½"	G 1½"	G 1½"	G 1½"
L4	level 4	G 1½"	G 1½"	G 1½"	G 1½"

Thread designations according to EN ISO 228-1!

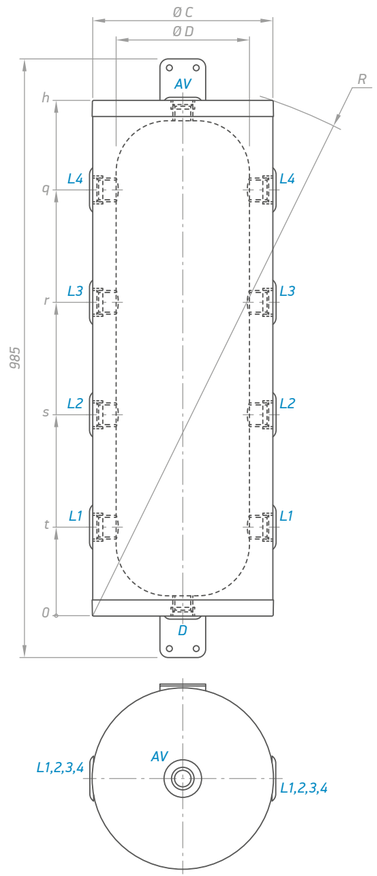




MODEL		V 800 95 F43 P4 C	V 1000 95 C	V 1500 120 F45 P4 C	V 2000 130 F46 P4 C
Art. number	№	303896	303897	303893	303894
Capacity	L	805	902	1476	1904
Net weight	kg	115	145	210	284
Insulation	mm	80	80	100	100
Heat losses ΔT45K	W	128	136	158	183
Energy efficiency class		C	C	C	C
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	3	3	3	3
Dimensions ±5 mm					
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
Ø C	mm	950	950	1200	1300
Ø D	mm	790	790	1000	1100

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

Thread designations according to EN ISO 228-1!



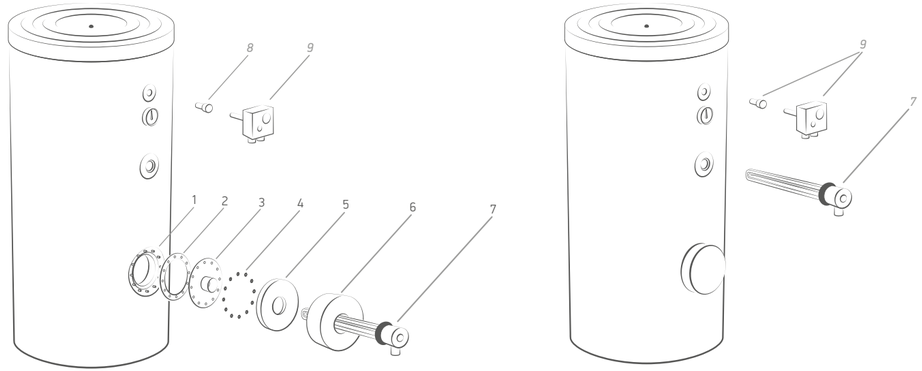
MODEL		V 50 36
Art. number	Nº	422570
Capacity	L	52
Net weight	kg	24.2
Insulation / (rigid PU)	mm	50
Heat losses ΔT45K	W	39
Energy efficiency class		B
Maximum operational temperature	°C	95
Rated pressure	bar	10
Dimensions ±5 mm		
h	mm	865
q	mm	718
r	mm	528
s	mm	338
t	mm	148
R	mm	953
Ø C	mm	400
Ø D	mm	300

MODEL		V 50 36
AV	air vent	G 1½"
D	drainage	G 1½"
L1-2-3-4	levels 1-2-3-4	G 1¼"

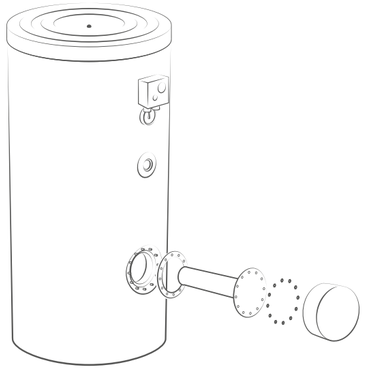
Thread designations according to EN ISO 228-1!

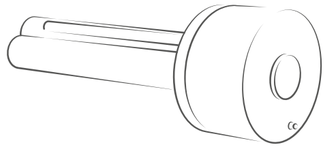
MODEL	Power	Name	Art. №	Description
Electric sets:				
from 160 up to 500 L	3 kW	Water heater set 3 kW Plug & Play (from 160 up to 500 L)	301456	Package includes: pos.2 Rubber gasket pos.3 Flange G 1½" pos.7 HE 3000 W / 230 V, with thermostat + thermal cut out 70 ±5°C / 85 ±5°C with plug (MB3000 ORW1_230V-64)
	3 kW	Water heater set 3 kW (from 160 up 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 up 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 up to 500 L)	301458	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 up to 2000 L	4.5 kW	Water heater set 4.5 kW (from 800 up to 2000 L) Kit Flange	300560 300567	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) pos.2 Rubber gasket pos.3 Flange G 1½"
	6 kW	Water heater set 6 kW (from 800 up to 2000 L) Kit Flange	300562 300567	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) pos.2 Rubber gasket pos.3 Flange G 1½"
	7.5 kW	Water heater set 7.5 kW (from 800 up to 2000 L) Kit Flange	300564 300567	Package includes: pos.7 HE 7500 W / 400 V 3 phase, L= 615 pos.9 Thermostat + thermal cut out with thermo pocket (750 L up to 2000 L) pos.2 Rubber gasket pos.3 Flange G 1½"
	12 kW	Electrical heat set 12 kW 2" (from 800 up to 2000 L) Kit Flange	304313 300568	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) pos.2 Rubber gasket pos.3 Flange G2"

MODEL	Power	Name	Art. №	Description
Heating elements (separatly delivered):				
from 160 up to 500 L	3 kW	Heating element Plug & Play	300910	Heating element "Plug & play" 3000 W / 230 V
	3 kW	Electrical heat resistance 3 kW (from 160 up to 500 L)	300570	HE 3000 W / 230 V 3 phase, L= 290
	4.5 kW	Electrical heat resistance 4.5 kW (from 160 up to 2000 L)	300571	HE 4500 W / 230 V 3 phase, L= 405
	6 kW	Electrical heat resistance 6 kW (from 160 up to 500 L)	300572	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 up to 2000 L	6 kW	Electrical heat resistance 6 kW (from 800 up to 2000 L)	300573	HE 6000 W / 230 V 3 phase, L= 505
	7.5 kW	Electrical heat resistance 7.5 kW (from 800 up to 2000 L)	300575	HE 7500 W / 400 V 3 phase, L= 615
	12 kW	Electrical heat resistance 12 kW (from 800 up 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)

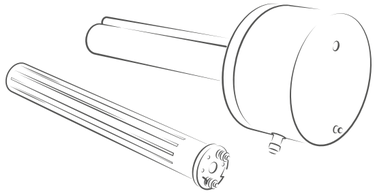


MODEL		CHE 2400 F	CHE 4800 R
Art. number		301667	301668
Rated Voltage and frequency		230 V / 50 Hz	230 V / 50 Hz
Rated power	W	2400	4800
Rated current	A	10.4	20.8
Used with storage tanks with a capacity	L	160, 200, 300, 400, 500	160, 200, 300, 400, 500
IP code		IPx4	IPx4
Temperature range		with fixed thermostat at 65°C	with thermostat from 5 to 65°C
Dimensions (flange Ø / length)	mm	180 / 540	180 / 540



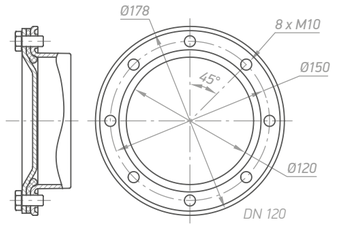


CHE 4800 R

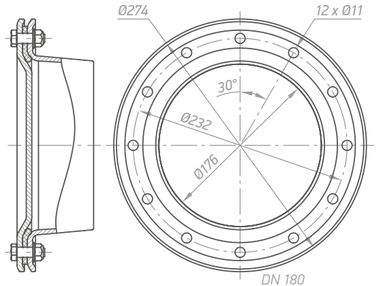


CHE 2400 F

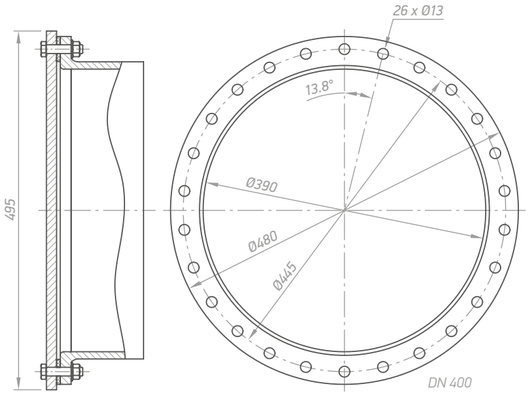
Flange type	Applicable for tanks with volume
DN 120	From 160 L to 500 L
DN 180	From 800 L to 2000 L
DN 400	From 1000 L to 2000 L



DN 120



DN 180

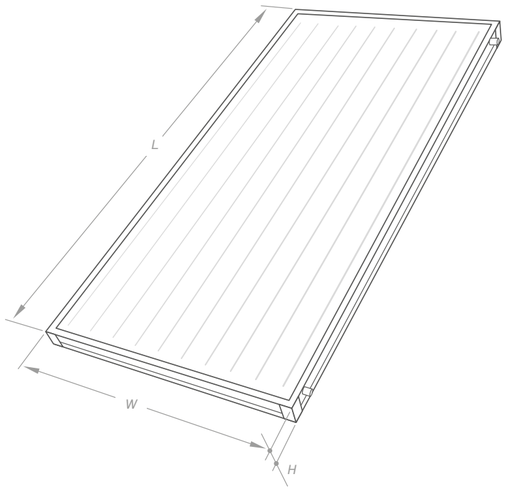


DN 400

Advantages

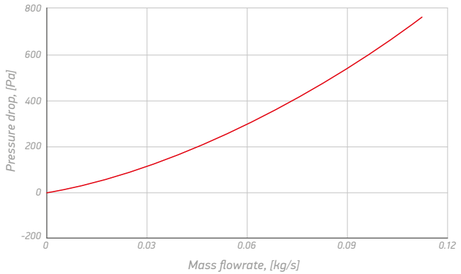
- Electric energy independent[1] hot water system
- Directly heated by by the Sun radiation
- High density PU[2] insulation of the water tank
- Rockwool insulation of the solar panel
- Fast and easy installation[3]
- Stand for flat and sloping roofs available
- A complete connection kit is included in the set
- Solar Keymark certified

1 - It can be used both when plugged in the electrical grid or independently, without being plugged to the grid under suitable climate conditions
2 - Polyurethane
3 - Subject to compliance with the installation and commissioning requirements specified in the manufacturer's instructions

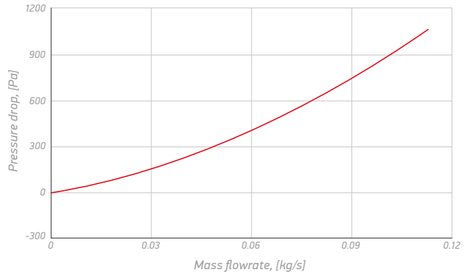


MODEL		SP 08 200 CSL	SP 08 260 CSL
Art. number		421600	421602
Absorber area	m^2	1.8	2.37
Weight empty	kg	36.5	45
Coating		selective	selective
Absorption ratio	%	95	95
Reflection capacity	%	5	5
Max. operating pressure	bar	10	10
Number of risers	pieces	8	11
Heat carrier		propylene-glycol solution	propylene-glycol 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^2K	3.95	3.77
Heat loss square ratio a_2	W/m^2K^2	0.016	0.015
Dimensions			
L	mm	2030	2030
W	mm	1030	1280
H	mm	80	80

SP 08 200 CSL - Pressure drop

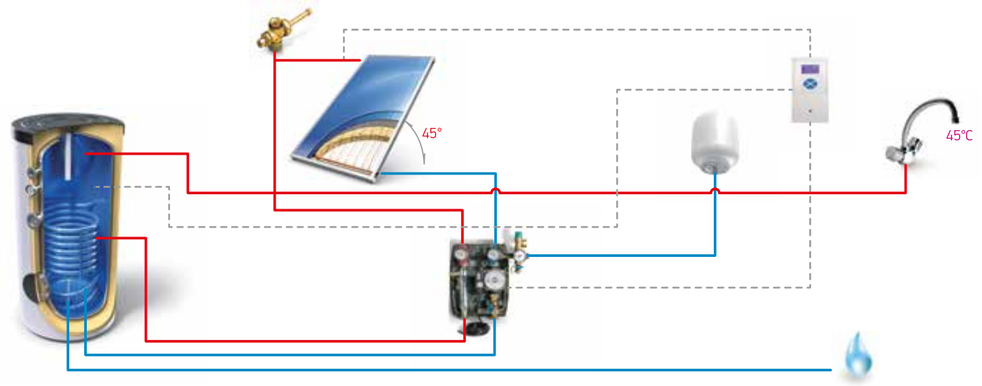


SP 08 260 CSL - Pressure drop



MODEL		SS 150 SP08	SS 200 SP08	SS 300 SP08	SS 500-6 SP08
Art. number	№	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	2xSP08 200 CSL	3xSP08 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 22mm 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. №					
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	422366	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 optimizes the overall performance of the plant; it allows achieving 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 mounted on the wall or in an electric control panel	
PT1000		-	-	-		
NTC		-	-	-		
RS02P	422364	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 optimizes 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 potentialities, 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 mounting on a wall or on an electric control panel	
PT1000		-	-	-		
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 fill and drain cook, wall bracket including corrugated tube to connect with the expansion vessel with, 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 pressure gauge, solar safety relief valve 6 bar and fill and drain cook, wall bracket including corrugated tube to connect with the expansion vessel with, arrangeable 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. №	
Roof set		
		Description
MK-SRFR-SP08 Mounting kit for single solar panel SP08 200 / 260	421603	They are sent totally packaged, encoded and with an installation manual. 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 - Flat and slope roofs for two solar panels SP08 260 CSL: Model MK-SRDR-SP08 260 Double
MK-SRDR-SP08 200 Double Mounting kit for two solar panels SP08 200 CSL	421606	
MK-SRFR-SP08 260 Double Mounting kit for two solar panels SP08 260 CSL	421605	
PG concetrate		
Monopropylene Glykol HP	421182	Non-toxic antifreeze fluid. It is supplied in packing - 5kg (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.

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MODEL		TSS EU 150	TSS EU 200	TSS EU 200 DOUBLE	TSS EU 300 DOUBLE
Solar panel		1 x FP 2 m²	1 x FP 2.5 m²	2 x FP 2 m²	2 x FP 2.5 m²
Frame/Thickness	mm	Pre-painted galvanised steel sheet 0.5 mm			
Glass panel		Tempered - 4 mm thickness			
Thermal insulation (shoulders) Thickness/ Density	mm / kg/m³	Stone wool / 30 / 50 A material properly designed for collectors, chemically inert, its qualities remain unchanged over time and it does not allow parasites to evolve			
Absorber		Harp-shaped bronze frame, aluminum selective coating on a panel (full face) - laser welding			
• Absorption capacity	%	95			
• Riser Cu Ø / Thickness	mm	0.40			
• Header Cu Ø / Thickness	mm	22 / 0.7			
Maximum operation temparature of the system	°C	170			
Maximum pressure of the solar panel	bar	10			
Working pressure of the system	bar / °C	1.5 / 95			
Volume of the water tank	L	150	200	200	300
Max. working pressure of the water tank	bar / °C	10			
Water tank dimensions LxD	mm	1285 x 500	1285 x 580	1285 x 580	1785 x 580
Solar fluid		Mixture of water and anti freeze (monopropylen-glycol)			
Electric Heater	kW	3.5			
Weight	kg	117	139	164	195

NAME	Art. Nº	
Roof set		
		Description
Horizontal roof accessories TSS150 Mounting kit for single solar panel TSS EU 150	412100	They are sent totally packaged, encoded and with installation manual. Available for: - Flat and slope roofs for one solar panel SP08 150 / 200 CSL: Model TSS 150 - Flat and slope roofs for two solar panels SP08 200 CSL: Model TSS 200 double - Flat and slope roofs for two solar panel: Model TSS EU 200 Double
Horizontal roof accessories TSS200 Mounting kit for single solar panels TSS EU 200	412101	
Horizontal roof accessories TSS200 Double Mounting kit for two solar panels TSS EU 200 or TSS EU 200 double*	412100	
PG concetrate		
Monopropylene Glykol HP		Non-toxic antifreeze fluid. It is supplied in packing (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.

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