



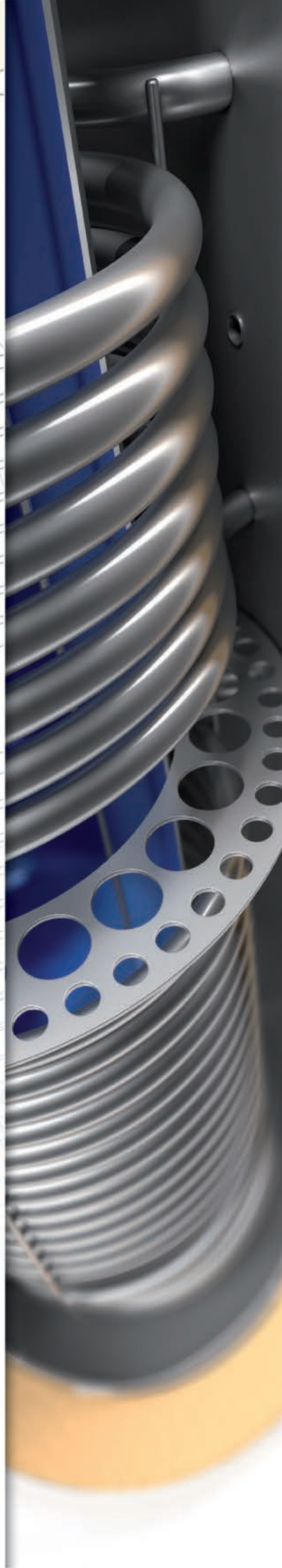
TESY
It's impressive

The technical drawing shows a cross-section of a mechanical assembly. A central yellow shaft is surrounded by a grey housing. Various dimensions are indicated with arrows and letters: l, k, r, j, i, h, p, A, g. Labels in blue include HW, IS2, TS2, R, OS2, IS1, and TS1. The drawing is a detailed line drawing with hatching for different materials.



PRO

PROFI LINE
PRODUCTS





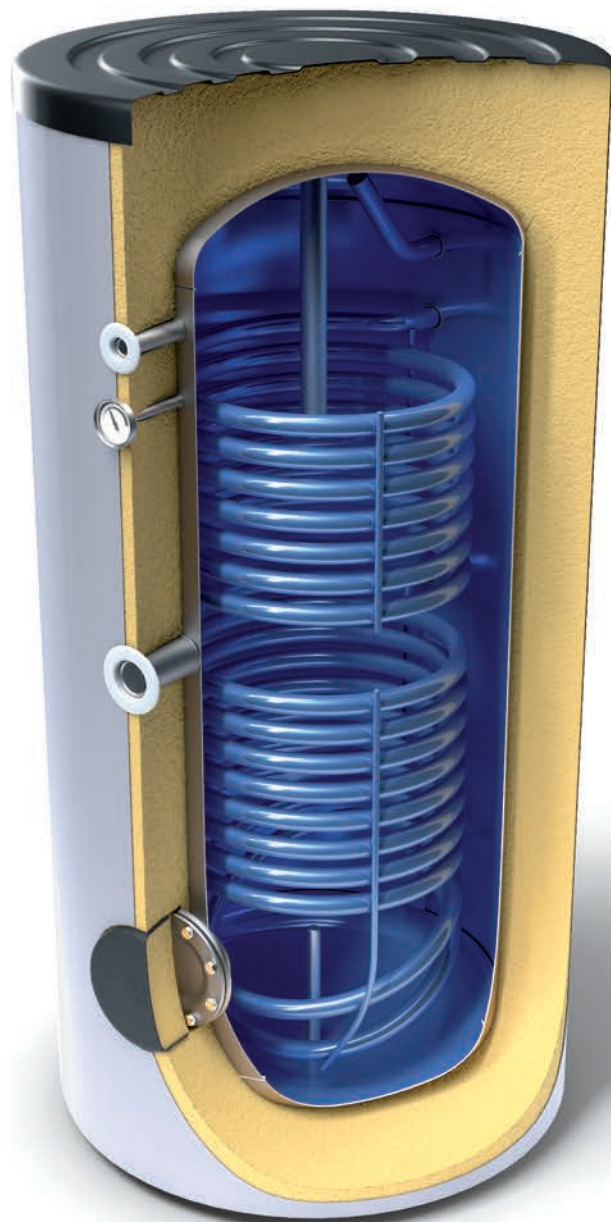
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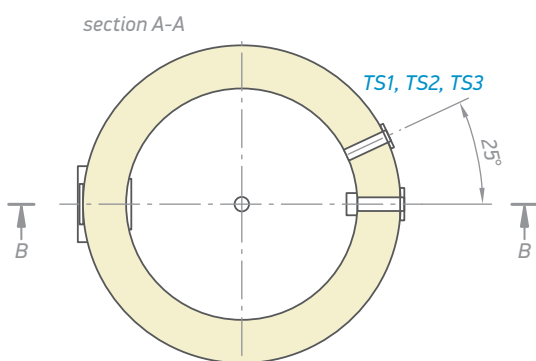
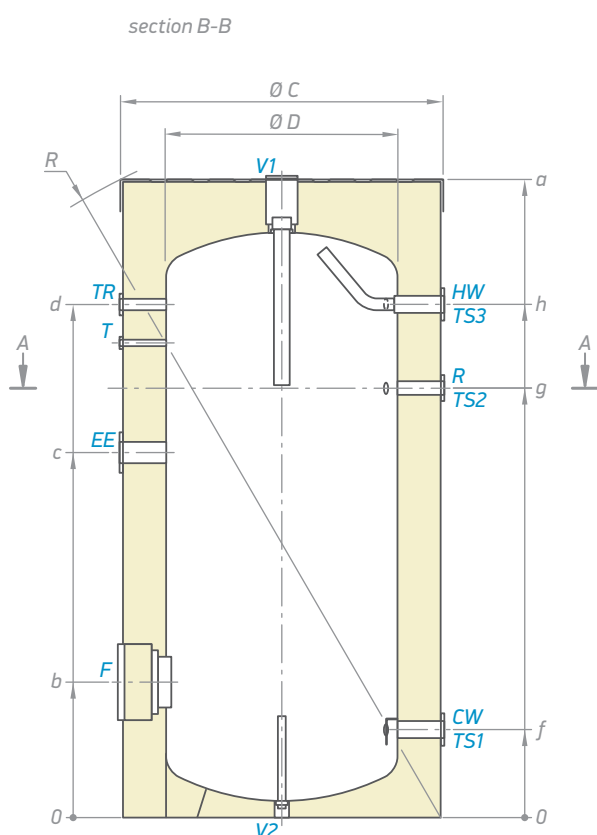
49	Expansion vessels
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Storage tanks for domestic hot water energy efficiency Class “A”



MODEL		EV 200 65	EV 300 75
Art. number	Nº	302732	302730
Capacity	l	200	300
Net weight	kg	48	69
Insulation (rigid PU)	mm	75	100
Heat losses ΔT 45K	kWh/24h	0.98	1.1
Energy efficiency class		A	A
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8
Thermo pockets	pieces	3	3

Dimensions ± 5 mm			
a	mm	1247	1495
b	mm	314	314
c	mm	714	846
d	mm	993	1207
f	mm	199	203
g	mm	771	1010
h	mm	993	1207
m	mm	1345	1563
$\varnothing C$	mm	650	750
$\varnothing D$	mm	500	550



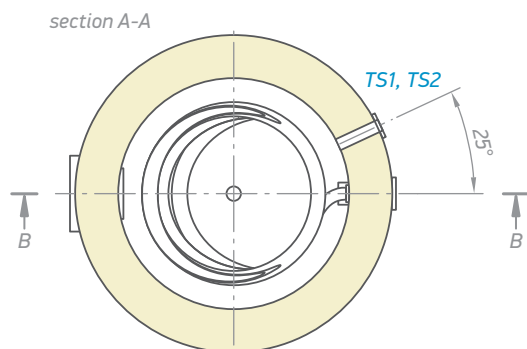
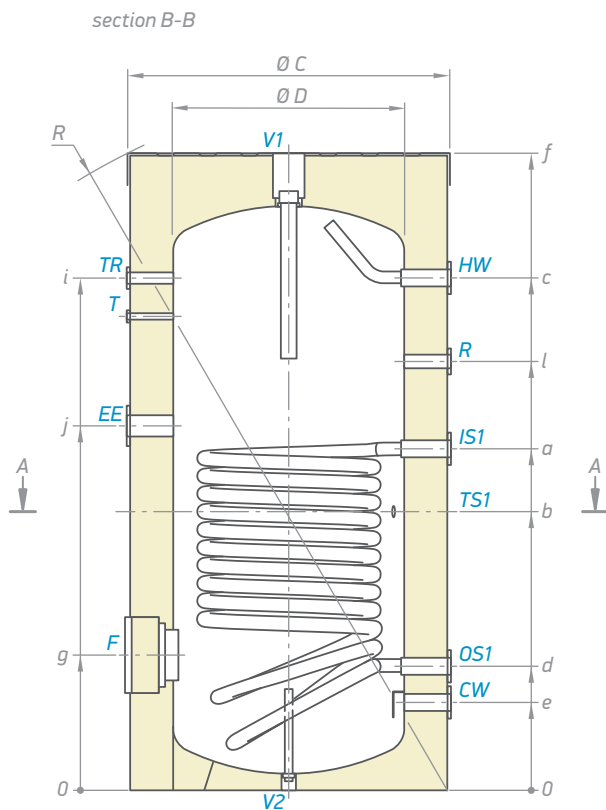
		EV 200 65	EV 300 75
CW	- cold water inlet	G 1"	
HW	- hot water outlet	G 1"	
TS1	- thermosensor	G ½"	
TS2	- thermosensor	G ½"	
TS3	- thermosensor	G ½"	
R	- recirculation	G ¾"	
EE	- opening for electric element	G 1½"	
T	- thermometer	Ø 14 x 1.5	
TR	- opening for thermoregulator	G ½"	

Thread designations according to EN ISO 228-1!

MODEL		EV 9 S 200 65	EV 12 S 300 75
Art. number		302733	302731
Capacity	l	200	300
Net weight	kg	68	95
Insulation (rigid PU)	mm	75	100
Heat exchanger surface S1	m ²	0.96	1.45
Heat exchanger capacity S1	l	5.8	8.8
Exchanged power in continuous mode (max coil output) S1 *60-80/70-90°C	kW	32 / 40	40 / 53
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80/70-90°C	l/h	768 / 955	882 / 1248
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1)	l	240	330
Heat losses ΔT 45K	kWh/24h	0.98	1.1
Energy efficiency class		A	A
Maximum operational temperature	°C	95	95
Rated pressure of the water tank	bar	8	8
Rated pressure of the heat exchanger	bar	6	6
NL factor S1		4.3	8.1
Minimum time of heating S1 *80°C-**15/60°C	min	38	40
Thermo pocket	pieces	1	1

* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)



Dimensions ±5 mm			
a	mm	671	804
b	mm	564	653
c	mm	993	1207
d	mm	284	288
e	mm	199	203
f	mm	1274	1495
g	mm	314	314
i	mm	993	1207
j	mm	714	846
l	mm	771	1010
m	mm	1345	1563
Ø C	mm	650	750
Ø D	mm	500	550

EV 9 S 200 65
EV 12 S 300 75

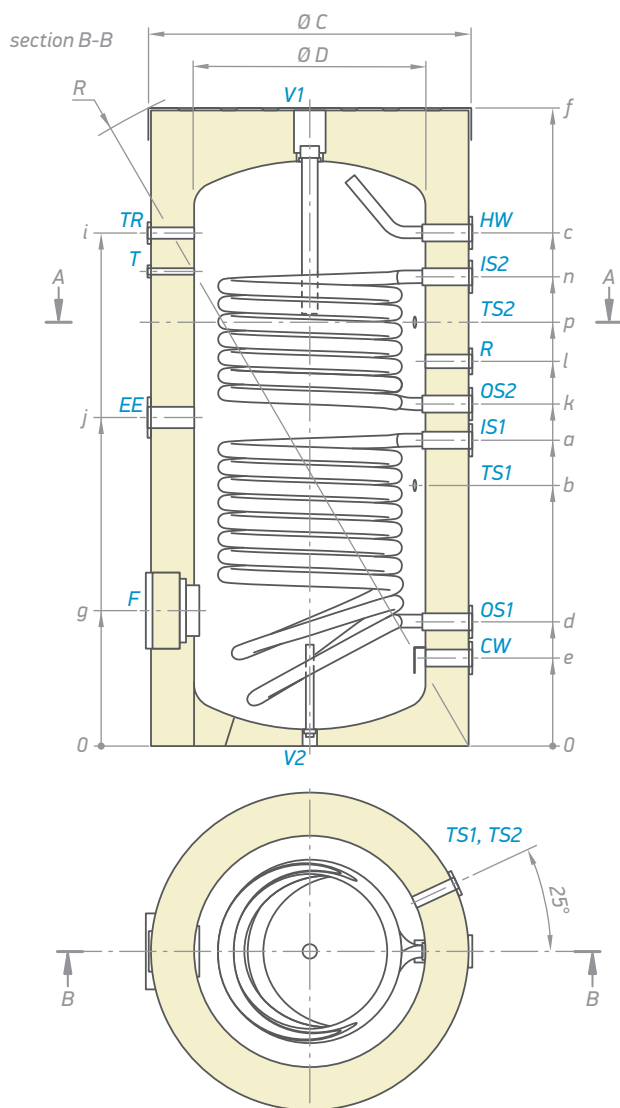
CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
IS1	- solar flow	G 1"
OS1	- solar return	G 1"
TS	- thermosensor	G ½"
R	- recirculation	G ¾"
EE	- opening for electric element	G 1½"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"

Thread designations according to EN ISO 228-1/1

MODEL		EV 7/5 S2 200 65	EV 10/7 S2 300 75
Art. number	Nº	302653	302654
Capacity	l	200	294
Net weight	kg	73	103
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 / 70-90°C	kW	23 / 30	34 / 46
Exchanged power in continuous mode (max coil output) S2 *60-80 / 70-90°C	kW	13 / 20	25 / 33
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80 / 70-90°C	l/h	558 / 648	792 / 1092
Continuous flow rate of DHW at ΔT 35°C (S2) *60-80 / 70-90°C	l/h	318 / 468	594 / 785
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1)	l	225	302
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S2)	l	111	151
Heat losses ΔT 45K	kWh/24h	0.98	1.1
Energy efficiency class		A	A
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8
Rated pressure of the heat exchanger	bar	6	6
NL factor S1		4.1	8
NL factor S2		1	1.4
Minimum time of heating S1 *80°C-**15/60°C	min	39	40
Minimum time of heating S2 *80°C-**15/60°C	min	39	39
Thermo pockets	pieces	2	2

* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)



Dimensions ±5 mm

a	mm	585	718
b	mm	478	610
c	mm	993	1207
d	mm	284	288
e	mm	199	203
f	mm	1274	1495
g	mm	314	314
i	mm	993	1207
j	mm	628	760
k	mm	671	803
l	mm	746	903
m	mm	1345	1563
n	mm	886	1104
p	mm	815	996
Ø C	mm	650	750
Ø D	mm	500	550

EV 7/5 S2 200 65
EV 10/7 S2 300 75

CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
IS1	- solar flow	G 1"
IS2	- central heating flow	G 1"
OS1	- solar return	G 1"
OS2	- central heating return	G 1"
TS1	- thermostatsensor	G ½"
TS2	- thermostatsensor	G ½"
R	- recirculation	G ¾"
EE	- opening for electric element	G 1½"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"

Thread designations according to EN ISO 228-1!

“All in one” heat pump and storage tank for domestic hot water production



MODEL		EVHP 7S 260 60
Art. number	Nº	421920
HP thermal power/yield	kW	1.6
Total thermal power	kW	3.1
Heating time (2)	h:m	9:44
Heating time in BOOST mode (2)	h:m	4:57
Heat losses 65°C (3)	W	105
Electrical data		
Power supply	V	1/N/230
Frequency	Hz	50
Degree of protection		IPX4
HP maximum absorption	kW	0.50
Average absorption	kW	0.37
Heating element + HP maximum absorption	kW	2.0
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
Water storage		
Water storage capacity	l	260
Max. quantity of hot water that can be used Vmax (4)	l	342
Coil for connection to solar thermal power system	m²	0.75
Coil for connection to an auxiliary heating source	m²	N/A
Cathodic protection		2 x Mg anode Ø32x260 mm
Insulation		50 mm rigid PU
Defrosting		Passive with air
Transport weight	kg	115.2
Sound power Lw(A) (5)	dB(A)	59
Automatic anti-Legionella disinfection cycle (6)		YES
Maximum working pressure	bar	7

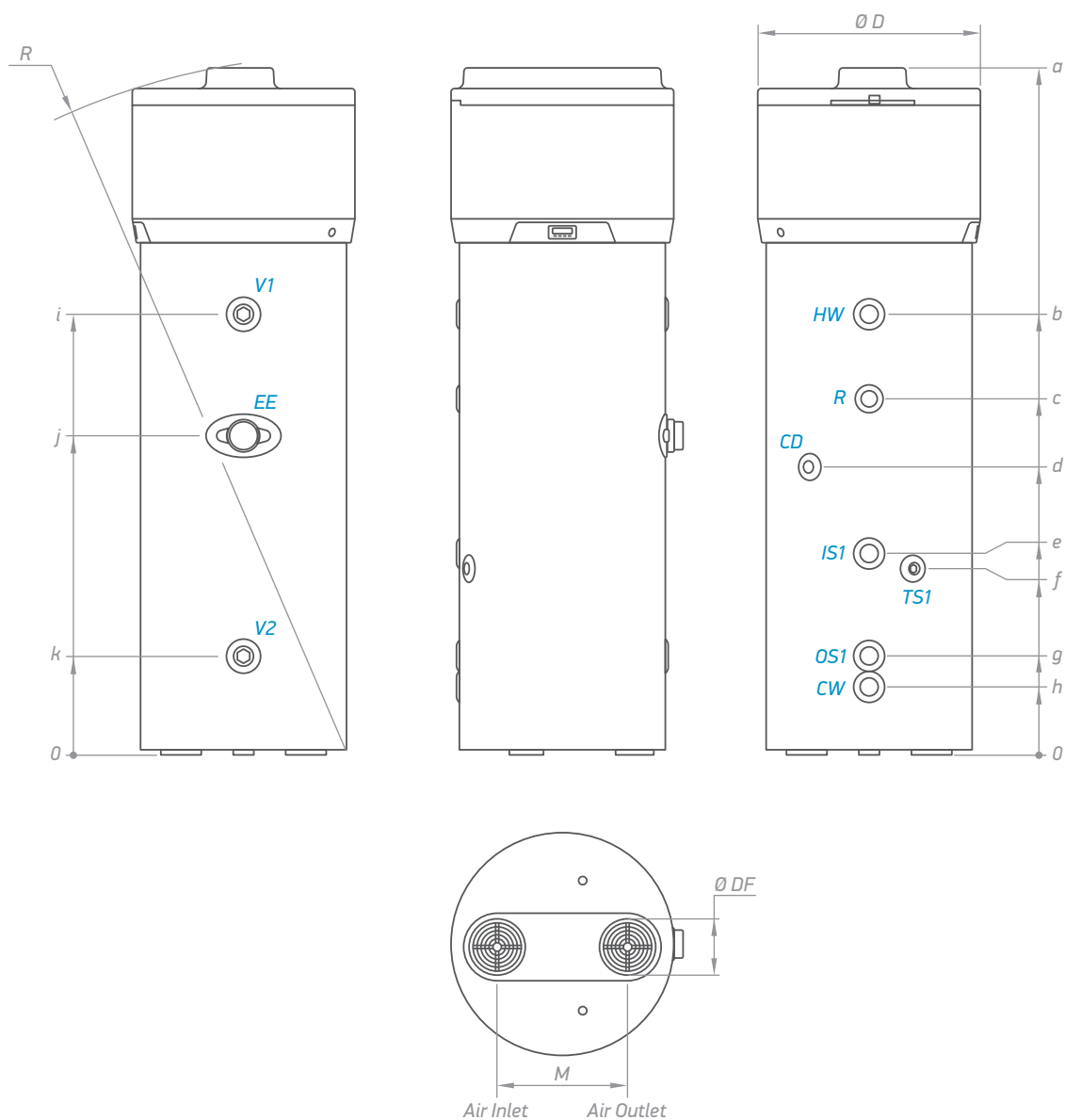
(1) - temperature of incoming air supply 20 (max. 15°C), temperature of boiler storage environment 20°C, water heated from 10°C to 55°C, (according to UNI EN 16147-2011)

(2) - measurements carried out according to UNI EN 12897-2006

(3) - measurements carried out according to UNI EN 16147-2011

(4) - measurements carried out according to EN 12102-2013

(5) - Automatic activation every 30 days of operation



Dimensions ±5 mm		
a	mm	2004
b	mm	1286
c	mm	1039
d	mm	839
e	mm	588
f	mm	544
g	mm	287
h	mm	202
i	mm	1286
j	mm	931
k	mm	287
R	mm	2025
Ø D	mm	650
Ø DF	mm	160
M	mm	380

CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
IS1	- solar flow	G 1"
OS1	- solar return	G 1"
TS	- thermosensor	G ½"
R	- recirculation	G ¾"
EE	- opening for electric element	G 1½"
V1	- Mg anode	G 1¼"
V2	- Mg anode	G 1¼"

Thread designations according to EN ISO 228-1/

Combined and indirectly heated storage tanks

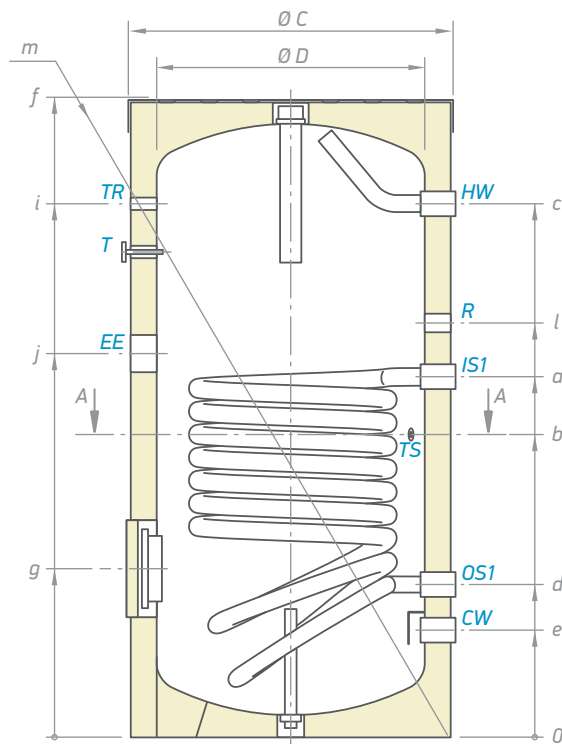
Indirectly heated storage water tanks



MODEL		EV 9S 160 60	EV 9S 200 60	EV 12S 300 65	EV 11S 400 75	EV 15S 500 75
Art. number	Nº	301408	301409	301394	301392	301395
Capacity	l	160	200	300	400	500
Net weight	kg	54	65	92	137	145
Insulation (rigid 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 surface S2	m ²	-	-	-	-	-
Heat exchanger capacity S1	l	5.8	5.8	8.8	10	13.7
Heat exchanger capacity S2	l	-	-	-	-	-
Exchanged power in continuous mode (max coil output) S1 *60-80 / 70-90°C	kW	31 / 39	32 / 40	40 / 53	47 / 61	61 / 73
Exchanged power in continuous mode (max coil output) S2 *60-80 / 70-90°C	kW	-	-	-	-	-
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80 / 70-90°C	l/h	720 / 1020	768 / 955	882 / 1248	1002 / 1500	1500 / 1795
Continuous flow rate of DHW at ΔT 35°C (S2) *60-80 / 70-90°C	l/h	-	-	-	-	-
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1)	l	180	240	330	412	553
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S2)	l	-	-	-	-	-
Heat losses ΔT 45K	kWh/24h	1.2	1.4	1.7	2.2	2.3
Energy efficiency class		B	B	B	C	C
Maximum operational temperature	°C	95	95	95	95	95
Rated pressure	bar	8	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6	6
NL factor S1		-	4.3	8.1	12	19
NL factor S2		-	-	-	-	-
Minimum time of heating S1 *80°C-**15/60°C	min	31	38	40	41	41
Minimum time of heating S2 *80°C-**15/60°C	min	-	-	-	-	-
Thermo pockets	pieces	1	1	1	1	1

* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)



Dimensions ±5 mm						
a	mm	671	671	804	775	944
b	mm	360	564	653	617	750
c	mm	785	993	1207	1156	1448
d	mm	284	284	288	302	299
e	mm	200	199	203	220	214
f	mm	1007	1200	1420	1407	1674
g	mm	314	314	314	331	324
i	mm	785	993	1207	1156	1448
j	mm	-	714	846	813	986
l	mm	602	771	1010	945	1199
m	mm	1169	1345	1563	1596	1838
Ø C	mm	600	600	650	750	750
Ø D	mm	500	500	550	650	650

EV 9 S 160 60
EV 9 S 200 60
EV 12 S 300 65
EV 11 S 400 75
EV 15 S 500 75

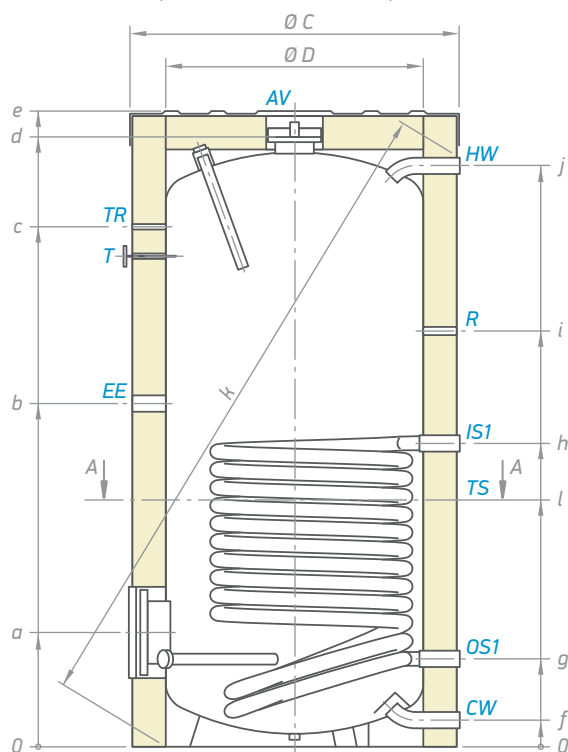
CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
IS1	- solar flow	G 1"
OS1	- solar return	G 1"
TS	- thermosensor	G ½"
R	- recirculation	G ¾"
EE	- opening for electric element	G 1½"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"

Thread designations according to EN ISO 228-1/1

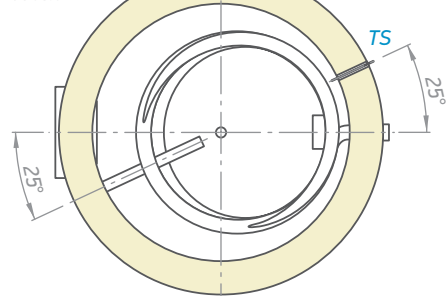
MODEL		EV 12S 800 99 F43 TP	EV 13S 1000 105 F44 TP	EV 12S 1500 120 F45 TP	EV 15S 2000 130 F46 TP
Art. number	Nº	300677	300681	300673	300683
Capacity	l	800	988	1500	1951
Net weight	kg	221	233	371	442
Insulation (soft PU)	mm	100	100	100	100
Heat exchanger surface S1	m ²	2.89	3.45	3.3	4.5
Heat exchanger surface S2	m ²	-	-	-	-
Heat exchanger capacity S1	l	26.2	31.3	30.4	41.6
Heat exchanger capacity S2	l	-	-	-	-
Exchanged power in continuous mode (max coil output) S1 *60-80 / 70-90°C	kW	79.8 / 103.7	95.2 / 123.8	140 / 175	198 / 250
Exchanged power in continuous mode (max coil output) S2 *60-80 / 70-90°C	kW	-	-	-	-
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80 / 70-90°C	l/h	1963.1 / 2551	2341.9 / 3045.5	3450 / 4330	4874 / 6160
Continuous flow rate of DHW at ΔT 35°C (S2) *60-80 / 70-90°C	l/h	-	-	-	-
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1)	l	845	1081	1660	2387
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S2)	l	-	-	-	-
Heat losses ΔT 45K	kWh/24h	5.1	5.5	6.5	8.3
Energy efficiency class	E	E	E	E	G
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6
NL factor S1		30	41	70	94
NL factor S2		-	-	-	-
Minimum time of heating S1 *80°C-**15/60°C	min	40	46	45	57
Minimum time of heating S2 *80°C-**15/60°C	min	-	-	-	-
Thermo pockets	pieces	2	2	2	2

* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)



section A-A



Dimensions ±5 mm					
a	mm	351	354	468	497
b	mm	1051	1132	1168	1298
c	mm	1592	1475	1768	1927
d	mm	1822	1894		
e	mm	1937	2002	2193	2399
f	mm	82.5	81.5	90	90
g	mm	269	272	421	411
h	mm	929	987	1081	1235
i	mm	1273	1274	1378	1551
j	mm	1780	1846	2061	2246
k	mm	2012	2097	2361	2592
l	mm	756	830	579	578
Ø C	mm	990	1050	1200	1300
Ø D	mm	790	850	1000	1100

EV 12S 800 99 F43 TP

EV 13S 1000 105 F44 TP

EV 12S 1500 120 F45 TP

EV 15S 2000 130 F46 TP

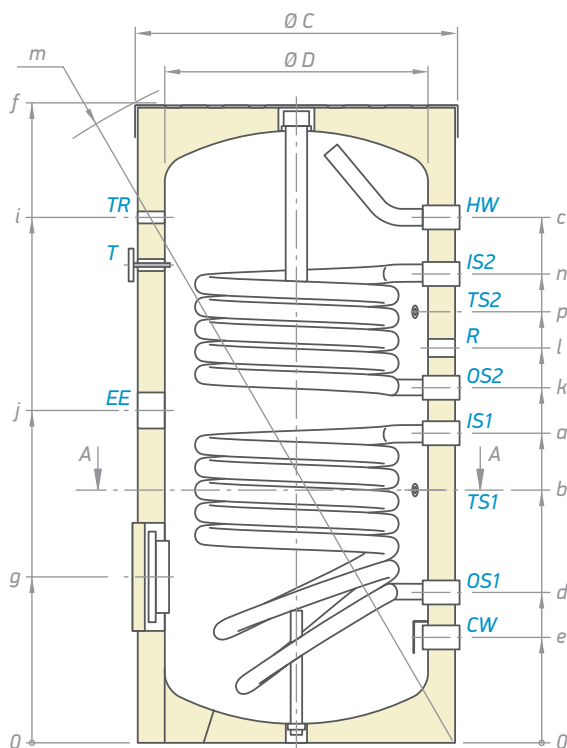
CW	- cold water inlet	G 1½" B	G 2" B
HW	- hot water outlet	G 1½" B	G 2" B
IS1	- solar flow	G 1½" B	G 1½" B
OS1	- solar return	G 1½" B	G 1½" B
TS	- thermosensor	G ½"	G ½"
R	- recirculation	G ¾"	G 1½"
EE	- opening for electric element	G 1½"	G 1½"
T	- thermometer	Ø 14 x 1.5	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"	G ½"
AV	- opening for air ventilation	G ¾"	G ¾"

Thread designations according to EN ISO 228-1!

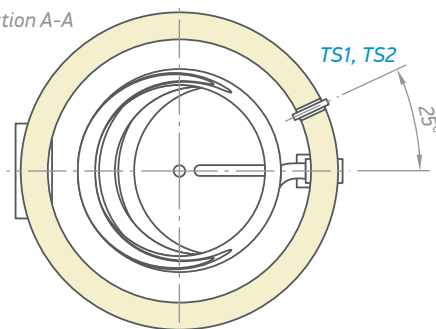
MODEL		EV 6/4 S2 160 60	EV 7/5 S2 200 60	EV 10/7S2 300 65	EV 11/5 S2 400 75	EV 15/7S2 500 75
Art. number	Nº	302165	301407	301391	301393	301396
Capacity	l	160	200	294	400	500
Net weight	kg	66	70	100	146	158
Insulation (rigid PU)	mm	50	50	50	50	50
Heat exchanger surface S1	m ²	0.61	0.75	1.21	1.65	2.25
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 / 70-90°C	kW	20 / 14	23 / 30	34 / 46	47 / 61	61 / 73
Exchanged power in continuous mode (max coil output) S2 *60-80 / 70-90°C	kW	10 / 7	13 / 20	25 / 33	21 / 30	35 / 47
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80 / 70-90°C	l/h	660	558 / 648	792 / 1092	1002 / 1500	1500 / 1795
Continuous flow rate of DHW at ΔT 35°C (S2) *60-80 / 70-90°C	l/h	480	318 / 468	594 / 785	470 / 648	785 / 1002
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1)	l	8/(6)	225	302	405	510
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S2)	l	4/(3)	111	151	200	250
Heat losses ΔT 45K	kWh/24h	1.2	1.4	1.7	2.2	2.3
Energy efficiency class		B	B	B	C	C
Maximum operational temperature	°C	95	95	95	95	95
Rated pressure	bar	8	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6	6
NL factor S1			4.1	8	12	18
NL factor S2			1	1.4	2	3
Minimum time of heating S1 *80°C-**15/60°C	min	30	39	40	41	42
Minimum time of heating S2 *80°C-**15/60°C	min	30	39	39	39	39
Thermo pockets	pieces	2	2	2	2	2

* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)



section A-A



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

EV 6/4 S2 160 60
EV 7/5 S2 200 60
EV 10/7S2 300 65
EV 11/5 S2 400 75
EV 15/7S2 500 75

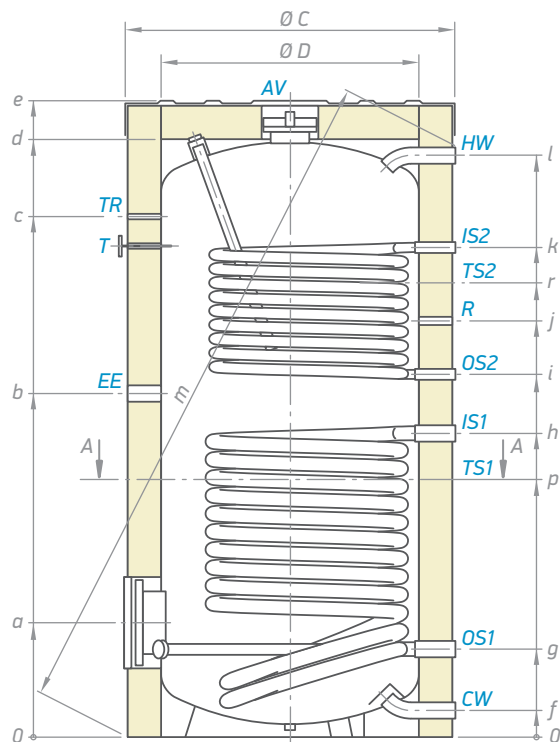
CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
IS1	- solar flow	G 1"
IS2	- central heating flow	G 1"
OS1	- solar return	G 1"
OS2	- central heating return	G 1"
TS1	- thermosensor	G ½"
TS2	- thermosensor	G ½"
R	- recirculation	G ¾"
EE	- opening for electric element	G 1½"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"

Thread designations according to EN ISO 228-1!

MODEL		EV 12/9S2 800 99 F43 TP2	EV 13/7S2 1000 105 F44 TP2	EV 12/8 S2 1500 120 F45 TP2	EV 15/9 S2 2000 130 F46 TP2
Art. number	Nº	300680	300682	300678	300687
Capacity	l	800	981	1488	1918
Net weight	kg	252	279	408	486
Insulation (soft PU)	mm	100	100	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 / 70-90°C	kW	79.8 / 103.7	95.2 / 123.8	140 / 175	198 / 250
Exchanged power in continuous mode (max coil output) S2 *60-80 / 70-90°C	kW	45 / 55.3	36.2 / 47	95 / 120	108 / 142
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80 / 70-90°C	l/h	1963.1 / 2551	2341.9 / 3045.5	3450 / 4330	4874 / 6160
Continuous flow rate of DHW at ΔT 35°C (S2) *60-80 / 70-90°C	l/h	1107 / 1360.4	890.5 / 1156.2	2349 / 2970	2658 / 3509
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1)	l	823	1055	1660	2387
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S2)	l	401	503	611	806
Heat losses ΔT 45K	kWh/24h	5.1	5.5	6.5	8.3
Energy efficiency class		E	E	E	G
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6
NL factor S1		29	40	70	94
NL factor S2		12	19	18	31
Minimum time of heating S1 *80°C-**15/60°C	min	40	46	45	57
Minimum time of heating S2 *80°C-**15/60°C	min	39	41	30	35
Thermo pockets	pieces	2	2	2	2

* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)



Dimensions ±5 mm					
a	mm	351	354	468	497
b	mm	1051	1132	1168	1287
c	mm	1592	1475	1768	1927
d	mm	1830	1895		
e	mm	1937	2002	2193	2399
f	mm	82.5	81.5	90	90
g	mm	269	272	421	420
h	mm	929	987	1081	1244
i	mm	1105	1174	1251	1380
j	mm	1273	1274	1378	1560
k	mm	1492	1475	1691	1875
l	mm	1778	1847	2061	2263
m	mm	2014	2100	2361	2565
p	mm	756	817	579	587
r	mm	1363	1374	1329	1537
Ø C	mm	990	1050	1200	1300
Ø D	mm	790	850	1000	1100

EV 12/9S2 800 99 F43 TP2

EV 13/7S2 1000 105 F44 TP2

EV 12/8 S2 1500 120 F45 TP2

EV 15/9 S2 2000 130 F46 TP2

CW	- cold water inlet	G 1½" B	G 2" B
HW	- hot water outlet	G 1½" B	G 2" B
IS1	- solar flow	G 1½" B	G 1½" B
IS2	- central heating flow	G 1" B	G 1½" B
OS1	- solar return	G 1½" B	G 1½" B
OS2	- central heating return	G 1" B	G 1½" B
TS1	- thermosensor	G ½"	G ½"
TS2	- thermosensor	G ½"	G ½"
R	- recirculation	G ¾"	G 1½"
EE	- opening for electric element	G 1½"	G 1½"
T	- thermometer	Ø 14 x 1.5	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"	G ½"
AV	- opening for air ventilation	G ¾"	G ¾"

Thread designations according to EN ISO 228-1!

Indirectly heated storage water tanks with high output heat exchanger

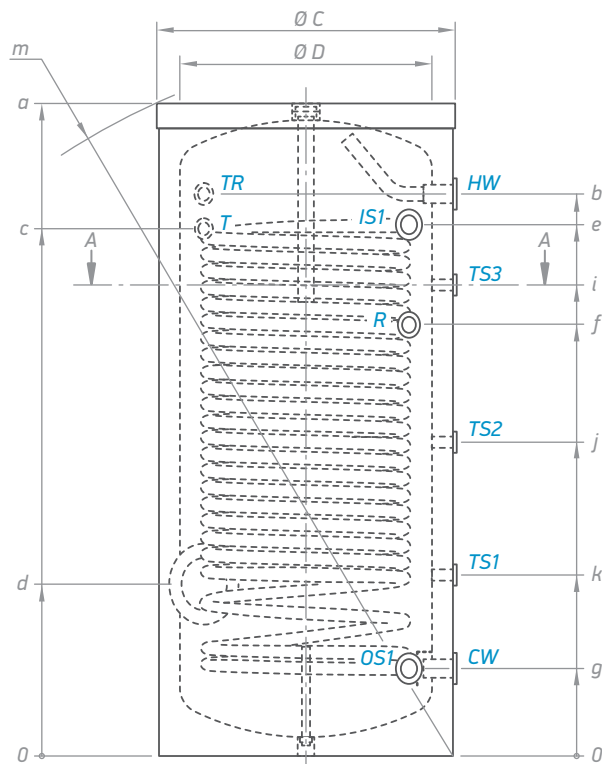


MODEL		EV 17S 300 65	EV 17S 400 75	EV 23S 500 75
Art. number	Nº	301397	301398	301400
Capacity	l	300	400	495
Net weight	kg	102	128	152
Insulation (soft PU)	mm	50	50	50
Heat exchanger surface S1	m ²	2.1	2.55	3.4
Heat exchanger capacity S1	l	12.6	15.5	23.3
Exchanged power in continuous mode (max coil output) S1 *60-80 / 70-90°C	kW	58 / 79	72 / 98	100 / 135
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80 / 70-90°C	l/h	1422 / 1932	1776 / 2400	2448 / 3306
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1)	l	302	412	553
Heat losses ΔT 45K	kWh/24h	1.7	2.2	2.3
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
Thermo pockets	pieces	3	3	3

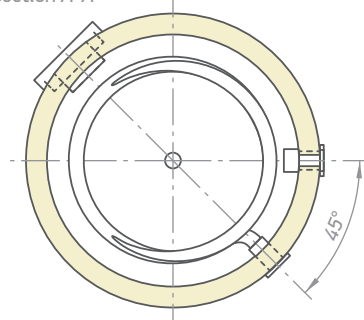
* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)

Dimensions ±5 mm				
a	mm	1420	1400	1670
b	mm	1184	1168	1447
c	mm	1094	1078	1357
d	mm	371	411	405
e	mm	1101	1120	1378
f	mm	953	960	1161
g	mm	205	225	225
i	mm	1055	1059	1161
j	mm	691	778	680
k	mm	398	448	467
m	mm	1560	1590	1833
Ø C	mm	650	750	750
Ø D	mm	550	650	650



section A-A



EV 17S 300 65
EV 17S 400 75
EV 23S 500 75

CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
IS1	- heat exchanger inlet	G 1"
OS1	- heat exchanger outlet	G 1"
R	- recirculation	G ¾"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"

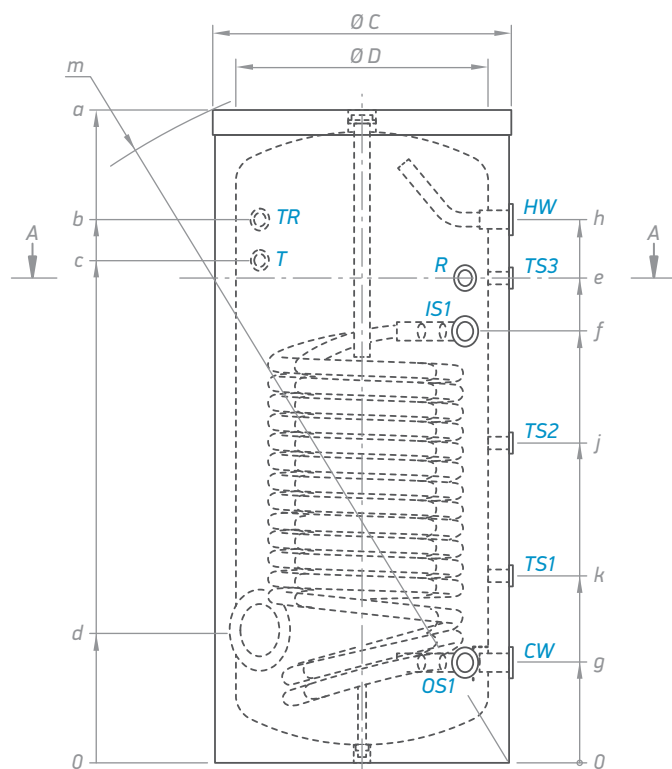
Thread designations according to EN ISO 228-1/

MODEL		EV 2x12S 200 60	EV 2x15S 300 65	EV 2x23S 500 75
Art. number	Nº	302166	301401	302167
Capacity	l	196	285	475
Net weight	kg	85	112	182
Insulation (soft PU)	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 / 70-90°C	kW	51 / 69	91 / 123	138 / 186
Continuous flow rate of DHW at ΔT 35°C (S1) *60-80 / 70-90°C	l/h	1266 / 1704	2238 / 3018	3390 / 4566
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1)	l	282	450	750
Heat losses ΔT 45K	kWh/24h	1.4	1.7	2.3
Energy efficiency class		B	B	C
Maximum operational temperature	°C	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110
Rated pressure	bar	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6
Thermo pockets	pieces	3	3	3

* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)

Dimensions ±5 mm				
a	mm	1202	1420	1670
b	mm	996	1184	1447
c	mm	906	1094	1357
d	mm	264	278	282
e	mm	897	1055	1162
f	mm	792	937	1303
g	mm	202	205	225
h	mm	996	1184	1447
j	mm	633	691	864
k	mm	360	398	467
m	mm	1345	1560	1823
Ø C	mm	600	650	750
Ø D	mm	500	550	650



EV 2x12S 200 60
EV 2x15S 300 65
EV 2x23S 500 75

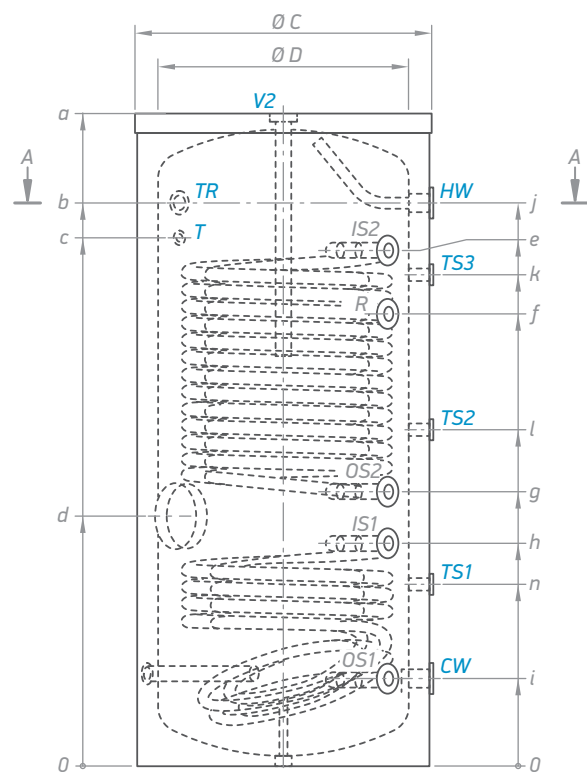
CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
IS1	- heat exchanger inlet	G 1"
OS1	- heat exchanger outlet	G 1"
R	- recirculation	G ¾"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"

Thread designations according to EN ISO 228-1!

MODEL		EV 2x4/2x9 S2 200 60	EV 2x5/2x12 S2 300 65	EV 2x6/2x13 S2 500 75
Art. number	Nº	302168	302169	302170
Capacity	l	195	283	483
Net weight	kg	85	116	172
Insulation (soft PU)	mm	50	50	50
Heat exchanger surface S1/2	m ²	0.65 / 1.6	1.00 / 2.45	1.55 / 3.45
Heat exchanger capacity S1/2	l	4/9.5	6/14.7	9.3/21
Exchanged power in continuous mode (max coil output) S1(S2) *60-80 / 70-90°C	kW	16 / 22 (35 / 48)	24 / 32 (55 / 74)	38 / 51 (78 / 105)
Continuous flow rate of DHW at ΔT 35°C (S1(S2)) *60-80 / 70-90°C	l/h	402 / 540 (870 / 1182)	594 / 798 (1344 / 1824)	936 / 1260 (1908 / 2592)
Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off (S1(S2))	l	282 / (175)	450 / (282)	750 / (474)
Heat losses ΔT 45K	kWh/24h	1.4	1.7	2.3
Energy efficiency class		B	B	C
Maximum operational temperature	°C	95	95	95
Maximum operational temperature of heat exchanger	°C	110	110	110
Rated pressure	bar	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6
Thermo pockets	pieces	2	3	3

* - outlet - inlet temperature of the heat transfer fluid

** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)



Dimensions ±5 mm				
a	mm	1202	1420	1670
b	mm	996	1184	1447
c	mm	906	1094	1357
d	mm	483	533	642
e	mm	966	1150	1325
f	mm	817	1055	1162
g	mm	519	574	706
h	mm	434	485	572
i	mm	202	205	225
j	mm	996	1184	1447
k	mm	817	1055	1262
l	mm	-	726	864
m	mm	1345	1560	1823
n	mm	360	398	467
p	mm	202	206	225
Ø C	mm	600	650	750
Ø D	mm	500	550	650

EV 2x4/2x9 S2 200 60
EV 2x5/2x12 S2 300 65
EV 2x6/2x13 S2 500 75

CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
IS1	- heat exchanger inlet	G 1"
IS2	- heat exchanger inlet	G 1"
OS1	- heat exchanger outlet	G 1"
OS2	- heat exchanger outlet	G 1"
R	- recirculation	G ¾"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"

Thread designations according to EN ISO 228-1/

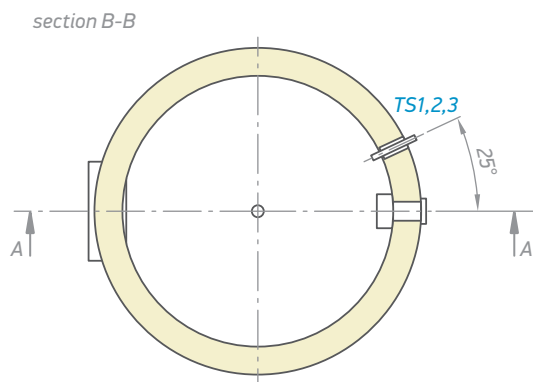
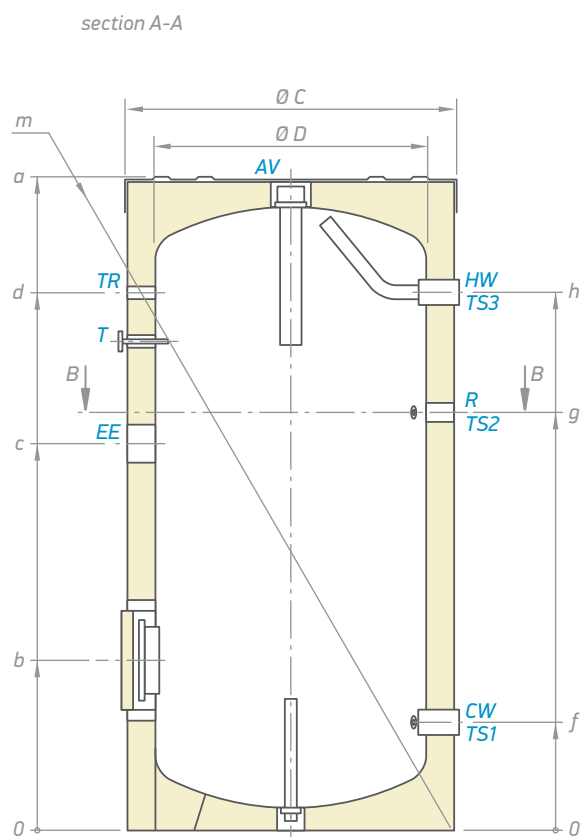
Combined and indirectly heated storage tanks

Buffer tanks for domestic hot water



MODEL		EV 200 60	EV 300 65	EV 400 75	EV 500 75
Art. number	Nº	301399	301402	301405	301406
Capacity	l	200	300	400	500
Net weight	kg	45	66	117	110
Insulation (rigid PU)	mm	50	50	50	50
Heat losses ΔT 45K	kWh/24h	1.4	1.7	2.2	2.3
Energy efficiency class		B	B	C	C
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	8	8	8	8
Thermo pockets	pieces	3	3	3	3

Dimensions ± 5 mm					
a	mm	1207	1427	1407	1702
b	mm	314	314	331	321
c	mm	714	846	813	983
d	mm	993	1207	1156	1445
f	mm	199	203	220	211
g	mm	771	1010	943	1196
h	mm	993	1207	1156	1445
m	mm	1345	1563	1596	1838
$\varnothing C$	mm	600	650	750	750
$\varnothing D$	mm	500	550	650	650



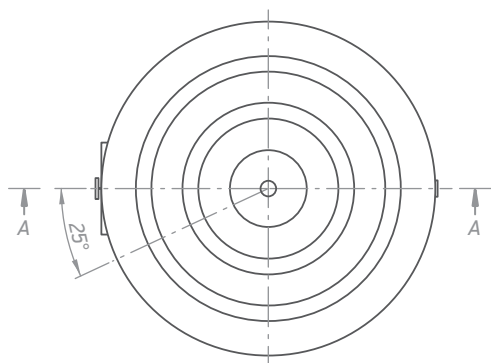
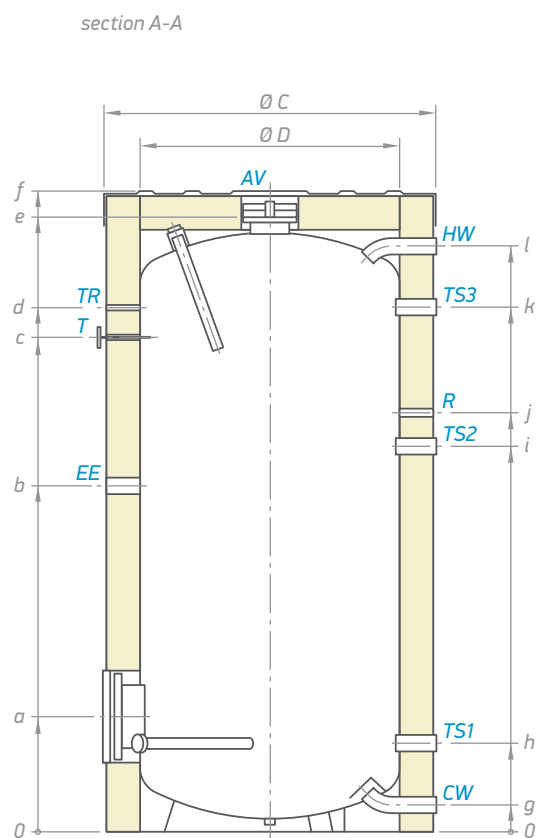
EV 200 60
EV 300 65
EV 400 75
EV 500 75

CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
R	- recirculation	G ¾"
EE	- opening for electric element	G 1½"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"

Thread designations according to EN ISO 228-1!

MODEL		EV 800 99 F43 TP3	EV 1000 105 F44 TP3
Art. number	N°	300785	300669
Capacity	l	800	1000
Net weight	kg	175	211
Insulation (soft PU)	mm	100	100
Heat losses ΔT 45K	kWh/24h	5.1	5.5
Energy efficiency class		E	E
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8
Thermo pockets	pieces	3	3

Dimensions ± 5 mm			
a	mm	354	354
b	mm	1050	1132
c	mm	1501	1383
d	mm	1591	1475
e	mm	1830	1895
f	mm	1937	2002
g	mm	81	81
h	mm	272	272
i	mm	1174	1174
j	mm	1273	1273
k	mm	1592	1654
l	mm	1780	1864
$\varnothing C$	mm	990	1050
$\varnothing D$	mm	790	850



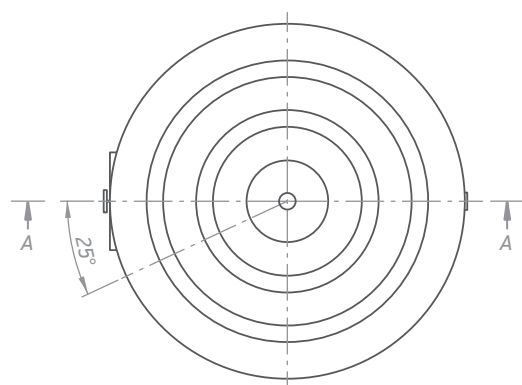
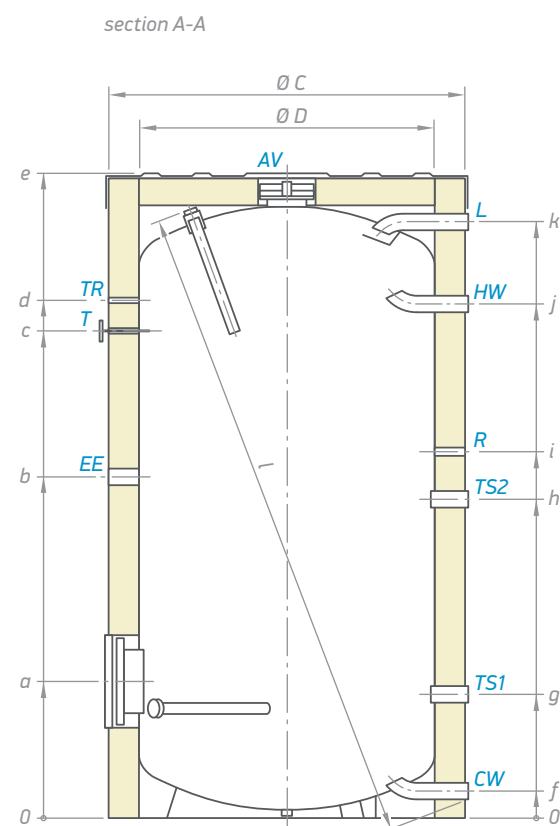
EV 800 99 F43 TP3
EV 1000 105 F44 TP3

CW	- cold water inlet	G 1"
HW	- hot water outlet	G 1"
R	- recirculation	G ¾"
EE	- opening for electric element	G 1½"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"
AV	- air vent	G ¾"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"

Thread designations according to EN ISO 228-1!

MODEL		EV 1500 120 F45 TP2	EV 2000 130 F46 TP2
Art. number	Nº	300792	300690
Capacity	l	1500	2000
Net weight	kg	338	388
Insulation (soft PU)	mm	100	100
Heat losses ΔT 45K	kWh/24h	6.5	8.3
Energy efficiency class		E	F
Maximum operational temperature	°C	95	95
Rated pressure	bar	8	8
Thermo pockets	pieces	2	2

Dimensions ± 5 mm			
a	mm	467	497
b	mm	1167	1287
c	mm	1665	1827
d	mm	1767	1927
e	mm	2193	2399
f	mm	90	90
g	mm	367	397
h	mm	1080	1141
i	mm	1250	1370
j	mm	1750	1915
k	mm	2061	2263
l	mm	2214	2412
$\varnothing C$	mm	1200	1300
$\varnothing D$	mm	1000	1100



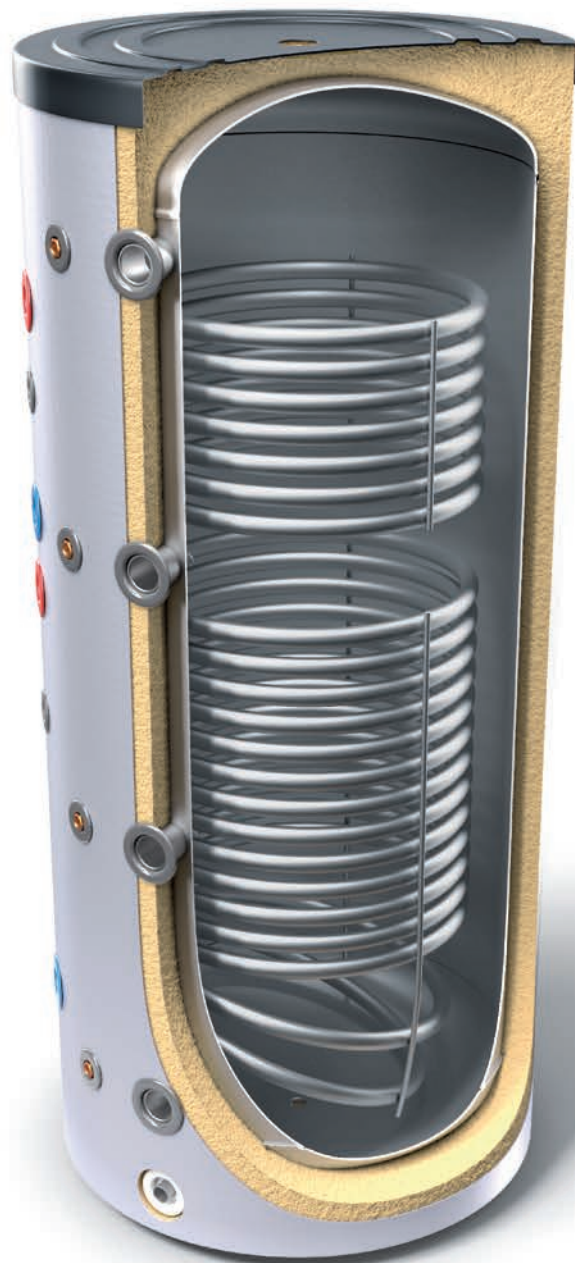
EV 1500 120 F45 TP2
EV 2000 130 F46 TP2

L	- battery charging	G 2" B
CW	- cold water inlet	G 2" B
HW	- hot water outlet	G 2" B
R	- recirculation	G 1½"
EE	- opening for electric element	G 1½"
T	- thermometer	Ø 14 x 1.5
TR	- opening for thermoregulator	G ½"
AV	- air vent	G ¾"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"

Thread designations according to EN ISO 228-1!

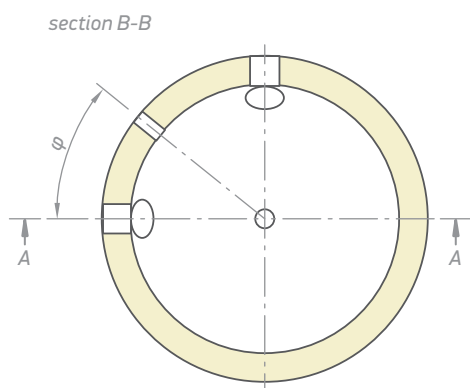
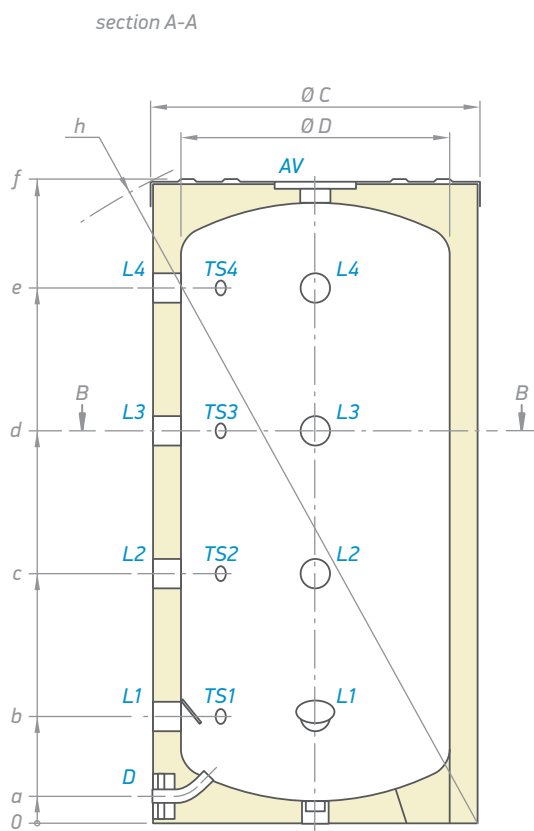
Combined and indirectly heated storage tanks

Buffer tanks for heating systems



MODEL		V 200 60 F40 P4	V 300 65 F41 P4	V 400 75 F42 P4	V 500 75 F42 P4
Art. number	Nº	300632	300634	300635	300636
Capacity	l	200	300	400	500
Net weight	kg	40	59	113.5	121
Heat losses ΔT 45K	kWh/24h	1.4	1.7	2.2	2.3
Energy efficiency class		B	B	C	C
Number of inlets	pieces	4	4	4	4
Number of outlets	pieces	5	5	5	5
Insulation (rigid PU)	mm	50	50	50	50
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	3	3	3	3
Thermo pockets	pieces	4	4	4	4

Dimensions ± 5 mm					
a	mm	50	52	67	67
b	mm	198	203	217	215
c	mm	463	538	533	627
d	mm	728	873	849	1039
e	mm	993	1208	1165	1451
f	mm	1200	1420	1410	1674
h	mm	1345	1563	1590	1823
$\varnothing D$	mm	500	550	650	650
$\varnothing C$	mm	600	650	750	750
φ	°	45	45	22.5	22.5



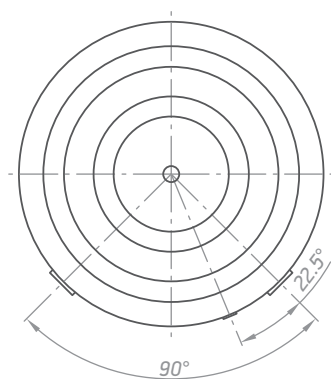
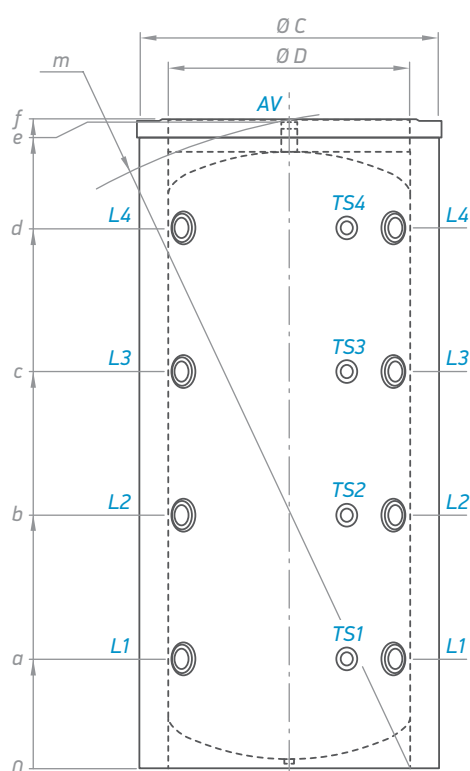
V 200 60 F40 P4
V 300 65 F41 P4
V 400 75 F42 P4
V 500 75 F42 P4

L1	- level 1	G 1½"
L2	- level 2	G 1½"
L3	- level 3	G 1½"
L4	- level 4	G 1½"
D	- drainage	G ¾"
AV	- air vent	G 1½"
TS1	- thermosensor level 1	G ½"
TS2	- thermosensor level 2	G ½"
TS3	- thermosensor level 3	G ½"
TS4	- thermosensor level 4	G ½"

Thread designations according to EN ISO 228-1!

MODEL		V 800 99 F43 P4	V 1000 99	V 1500 120 F45 P4	V 2000 130 F46 P4
Art. number	Nº	300638	302496	300627	300633
Capacity	l	800	949	1500	2000
Net weight	kg	115	145	210	284
Number of inlets	pieces	4	4	4	4
Number of outlets	pieces	5	5	5	5
Maximum operational temperature	°C	95	95	95	95
Rated pressure	bar	3	3	3	3
Heat losses ΔT 45K	kWh/24h	4.1	4.3	6.5	8.3
Energy efficiency class		E	E	E	F
Thermo pockets	pieces	4	4	4	4

Dimensions ± 5 mm					
a	mm	360	360	427	446
b	mm	740	832	860	929
c	mm	1120	1303	1293	1412
d	mm	1500	1774	1726	1896
e	mm	1921	2121	2220	2413
f	mm	1947	2132	2220	2413
m	mm	1960	2155	2265	2481
$\emptyset C$	mm	990	990	1200	1300
$\emptyset D$	mm	790	790	1000	1100



V 800 99 F43 P4
V 1000 99

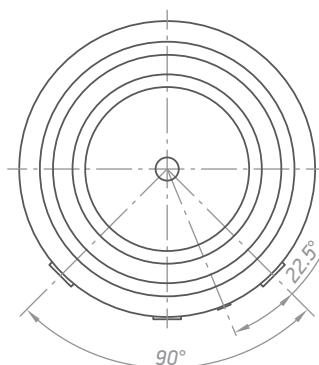
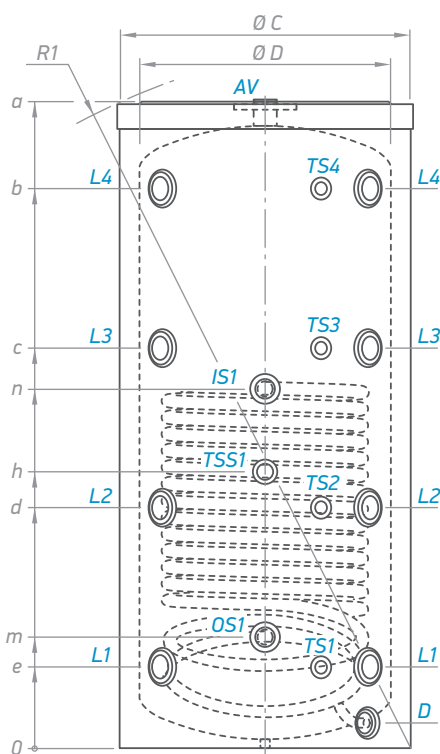
V 1500 120 F45 P4
V 2000 130 F46 P4

L1	- level 1	G 1½"	G 2" B
L2	- level 2	G 1½"	G 2" B
L3	- level 3	G 1½"	G 2" B
L4	- level 4	G 1½"	G 2" B
AV	- air vent	G 1½"	G 2" B
TS1	- thermosensor level 1	G ½"	G ½"
TS2	- thermosensor level 2	G ½"	G ½"
TS3	- thermosensor level 3	G ½"	G ½"
TS4	- thermosensor level 4	G ½"	G ½"

Thread designations according to EN ISO 228-1!

MODEL		V 11S 400 75 F42 P5	V 15S 500 75 F42 P5
Art. number	Nº	300612	300624
Capacity	l	400	500
Net weight	kg	131	138
Heat exchanger surface S1	m ²	1.65	2.25
Heat exchanger capacity S1	l	10	13.7
Heat losses ΔT 45K	kWh/24h	2.8	3.1
Energy efficiency class		C	C
Rated pressure	bar	3	3
Rated pressure of the heat exchanger	bar	6	6
Number of inlets	pieces	4	4
Number of outlets	pieces	5	5
Insulation (soft PU)	mm	100	100
Maximum operational temperature	°C	95	95
Maximum operational temperature heat exchanger	°C	110	110
Thermo pockets	pieces	5	5

Dimensions ±5 mm			
a	mm	1409	1674
b	mm	1165	1450
c	mm	849	1038
d	mm	533	626
e	mm	217	214
h	mm	464	719
m	mm	307	289
n	mm	780	934
D	mm	67	67
Ø D	mm	650	650
Ø C	mm	750	750
R1	mm	1590	1825

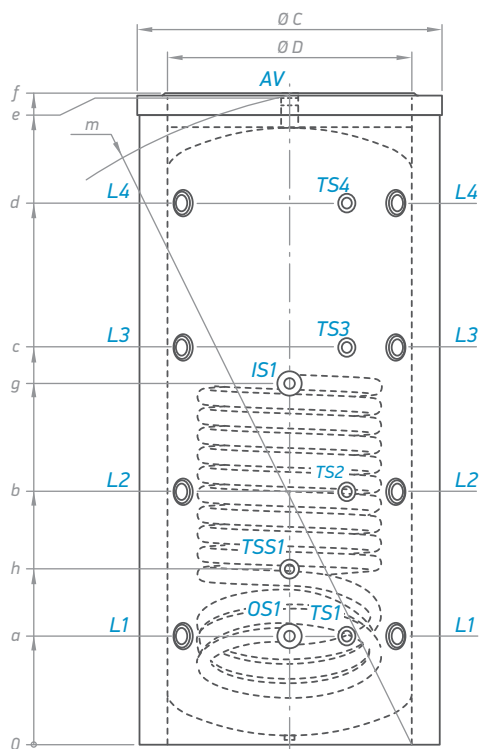


V 11S 400 75 F42 P5
V 15S 500 75 F42 P5

IS1	- heat exchanger inlet	G 1"
OS1	- heat exchanger outlet	G 1"
D	- drainage	G ¾"
AV	- air vent	G 1½"
L1	- level 1	G 1½"
L2	- level 2	G 1½"
L3	- level 3	G 1½"
L4	- level 4	G 1½"
TS1	- thermosensor level 1	G ½"
TS2	- thermosensor level 2	G ½"
TS3	- thermosensor level 3	G ½"
TS4	- thermosensor level 4	G ½"
TSS1	- thermosensor heat exchanger	G ½"

Thread designations according to EN ISO 228-1!

MODEL		V 12S 800 99 F43 P5	V 15S 1000 99	V 12S 1500 120 F45 P5	V 15S 2000 130 F46 P5
Art. number	Nº	300616	302497	300614	300623
Capacity	l	800	988	1500	1950
Net weight	kg	169	198	265	360
Heat exchanger surface S1	m²	2.89	3.45	3.47	4.5
Heat exchanger capacity S1	l	26.2	31.3	31.4	41.6
Heat losses ΔT 45K	kWh/24h	5.1	5.3	6.5	8.3
Energy efficiency class		E	E	E	G
Rated pressure	bar	3	3	3	3
Rated pressure of the heat exchanger	bar	6	6	6	6
Number of inlets	pieces	4	4	4	4
Number of outlets	pieces	5	5	5	5v
Maximum operational temperature	°C	95	95	95	95
Maximum operational temperature heat exchanger	°C	110	110	110	110
Thermo pockets	pieces	5	5	5	5



Dimensions ±5 mm					
a	mm	360	360	427	446
b	mm	740	832	860	929
c	mm	1120	1303	1293	1412
d	mm	1500	1774	1726	1896
e	mm	1921	2121	2220	2413
f	mm	1947	2132	2220	2413
g	mm	1021	1186	1087	1271
h	mm	581	581	647	646
m	mm	1960	2155	2265	2481
Ø C	mm	990	990	1200	1300
Ø D	mm	790	790	1000	1100

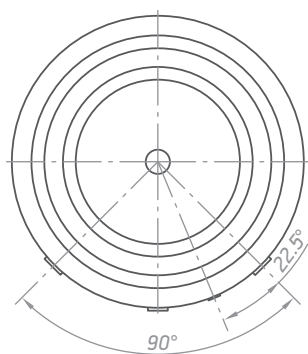
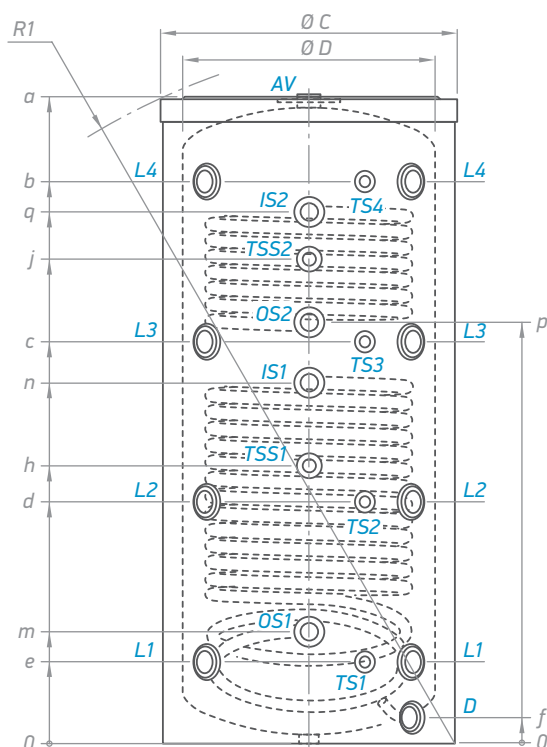
V 12S 800 99 F43 P5
V 15S 1000 99

V 12S 1500 120 F45 P5
V 15S 2000 130 F46 P5

IS1	- heat exchanger inlet	G 1½"	G 1½" B
OS1	- heat exchanger outlet	G 1½"	G 1½" B
AV	- air vent	G 1½"	G 2" B
L1	- level 1	G 1½"	G 2" B
L2	- level 2	G 1½"	G 2" B
L3	- level 3	G 1½"	G 2" B
L4	- level 4	G 1½"	G 2" B
TS1	- thermosensor level 1	G ½"	G ½"
TS2	- thermosensor level 2	G ½"	G ½"
TS3	- thermosensor level 3	G ½"	G ½"
TS4	- thermosensor level 4	G ½"	G ½"
TSS1	- thermosensor heat exchanger	G ½"	G ½"

Thread designations according to EN ISO 228-1!

MODEL		V 11/5 S2 400 75 F42 P6	V15/7 S2 500 75 F42 P6
Art. number	Nº	300613	300625
Capacity	l	400	500
Net weight	kg	140	149.5
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 ΔT 45K	kWh/24h	2.8	3.1
Energy efficiency class		C	C
Rated pressure	bar	3	3
Rated pressure of the heat exchanger	bar	6	6
Number of inlets	pieces	4	4
Number of outlets	pieces	5	5
Insulation (soft PU)	mm	100	100
Maximum operational temperature	°C	95	95
Maximum operational temperature heat exchanger	°C	110	110
Thermo pockets	pieces	6	6



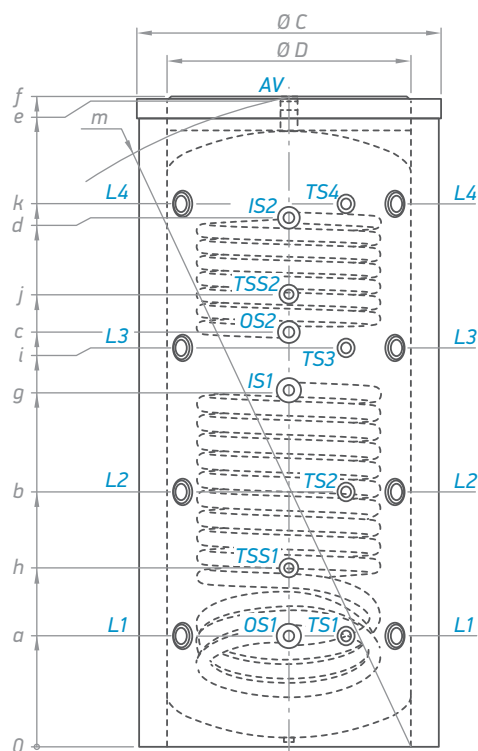
Dimensions ±5 mm			
a	mm	1411	1674
b	mm	1166	1450
c	mm	850	1038
d	mm	534	626
e	mm	218	214
f	mm	68	67
h	mm	465	719
j	mm	1002	1220
m	mm	308	289
n	mm	781	934
p	mm	864	1048
q	mm	1079	1349
Ø D	mm	650	650
Ø C	mm	750	750
R1	mm	1592	1826

V 11/5S2 400 75 F42 P6
V15/7S2 500 75 F42 P6

IS1	- heat exchanger inlet	G 1"
IS2	- heat exchanger inlet	G 1"
OS1	- heat exchanger outlet	G 1"
OS2	- heat exchanger outlet	G 1"
D	- drainage	G ¾"
AV	- air vent	G 1½"
L1	- level 1	G 1½"
L2	- level 2	G 1½"
L3	- level 3	G 1½"
L4	- level 4	G 1½"
TS1	- thermosensor level 1	G ½"
TS2	- thermosensor level 2	G ½"
TS3	- thermosensor level 3	G ½"
TS4	- thermosensor level 4	G ½"
TSS1	- thermosensor heat exchanger	G ½"
TSS2	- thermosensor heat exchanger	G ½"

Thread designations according to EN ISO 228-1!

MODEL		V 12/9 S2 800 99 F43 P6	V 15/9 S2 1000 99	V 12/8 S2 1500 120 F45 P6	V 15/9 S2 2000 130 F46 P6
Art. number	Nº	300618	302498	300814	300626
Capacity	l	800	977	1500	1928
Net weight	kg	191	206	308	405
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 ΔT 45K	kWh/24h	5.1	5.3	6.5	8.3
Energy efficiency class	E	E	E	E	G
Rated pressure	bar	3	3	3	3
Rated pressure of the heat exchanger	bar	6	6	6	6
Number of inlets	pieces	4	4	4	4
Number of outlets	pieces	5	5	5	5
Maximum operational temperature	°C	95	95	95	95
Maximum operational temperature heat exchanger	°C	110	110	110	110
Thermo pockets	pieces	6	6	6	6



Dimensions ±5 mm					
a	mm	360	360	427	446
b	mm	740	832	860	929
c	mm	1120	1303	1293	1412
d	mm	1500	1774	1726	1896
e	mm	1921	2121	2220	2413
f	mm	1947	2132	2220	2413
g	mm	1021	1186	1087	1271
h	mm	581	581	647	646
i	mm	1120	1360	1293	1412
j	mm	1388	1501	1461	1565
k	mm	1508	1746	1733	1903
m	mm	1960	2155	2265	2481
Ø C	mm	990	990	1200	1300
Ø D	mm	790	790	1000	1100

V 12S 800 99 F43 P6
V 15S 1000 99

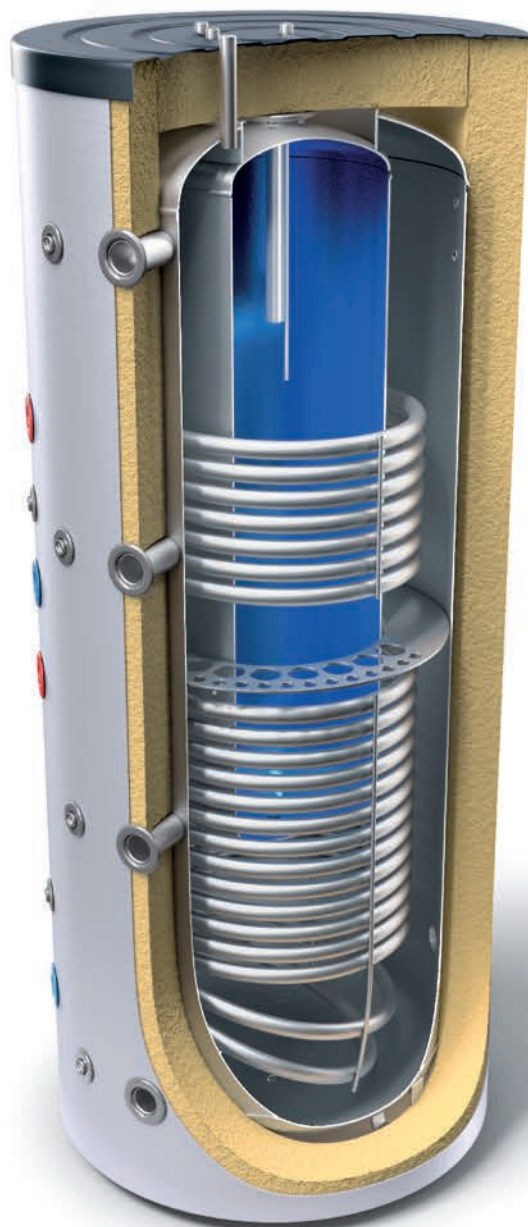
V 12S 1500 120 F45 P6
V 15S 2000 130 F46 P6

IS1	- heat exchanger inlet	G 1½" B	G 1½" B
IS2	- heat exchanger inlet	G 1½" B	G 1½" B
OS1	- heat exchanger outlet	G 1½" B	G 1½" B
OS2	- heat exchanger outlet	G 1½" B	G 1½" B
AV	- air vent	G 1½"	G 2" B
L1	- level 1	G 1½"	G 2" B
L2	- level 2	G 1½"	G 2" B
L3	- level 3	G 1½"	G 2" B
L4	- level 4	G 1½"	G 2" B
TS1	- thermosensor level 1	G ½"	G ½"
TS2	- thermosensor level 2	G ½"	G ½"
TS3	- thermosensor level 3	G ½"	G ½"
TS4	- thermosensor level 4	G ½"	G ½"
TSS1	- thermosensor heat exchanger	G ½"	G ½"
TSS2	- thermosensor heat exchanger	G ½"	G ½"

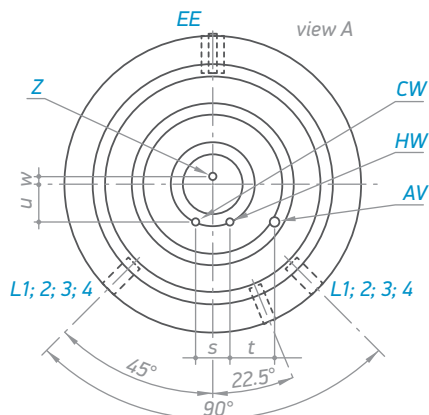
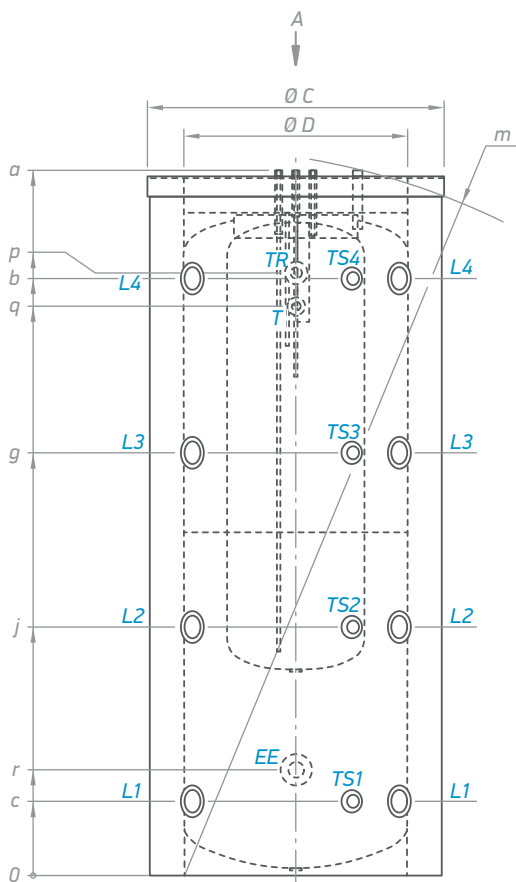
Thread designations according to EN ISO 228-1/

Combined and indirectly heated storage tanks

Combined storage tank for central heating and domestic hot water – tank in tank



MODEL		V 600 85 - EV 150 40	V 800 99 - EV 200 45	V 1000 99 - EV 200 45	V 1500 120 - EV 300 55
Art. number	Nº	300637	300639	302499	300628
Actual capacity buffer tank	l	461	616	750	1184
Actual capacity hot water tank	l	142	184	184	302
Net weight	kg	161	193	220	295
Insulation (soft PU)	mm	100	100	100	100
Maximum operational temperature buffer tank	°C	95	95	95	95
Maximum operational temperature hot water tank	°C	95	95	95	95
Max. working temperature coil heating element	°C	-	-	-	-
Nominal pressure of buffer tank	MPa	0.3	0.3	0.3	0.3
Max. pressure of hot water tank	MPa	1	1	1	1
Heat loss ΔT 45K	kWh/24h	4.8	5.1	5.5	6.5
Energy efficiency class		D	E	E	E

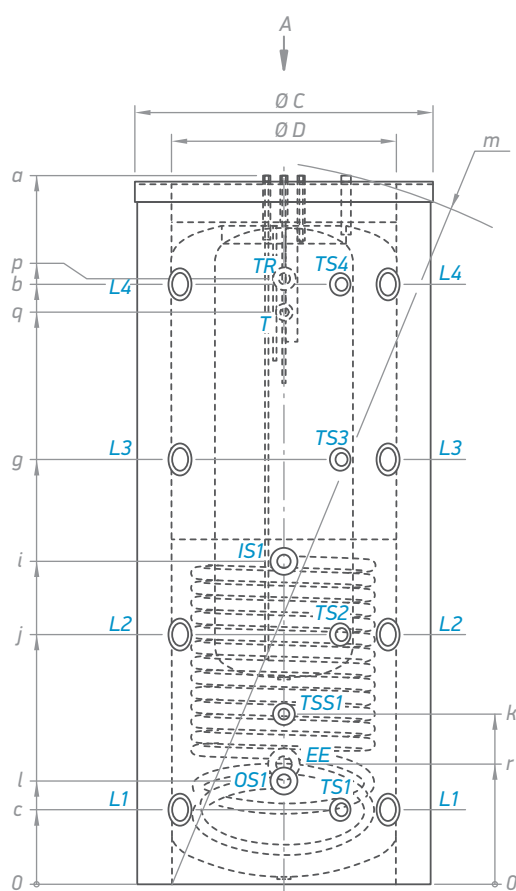


Dimensions ±5 mm					
a	mm	2065	1956	2141	2216
b	mm	1738	1502	1775	1726
c	mm	214	362	362	427
g	mm	1230	1122	1304	1293
j	mm	722	742	833	860
m	mm	2121	2045	2236	2238
p	mm	1747	1600	1795	1740
q	mm	1657	1500	1695	1640
r	mm	307	400	400	470
s	mm	100	100	100	100
t	mm	130	150	150	150
u	mm	110	100	100	110
w	mm	22	22	22	22
Ø C	mm	850	990	990	1200
Ø D	mm	650	790	790	1000

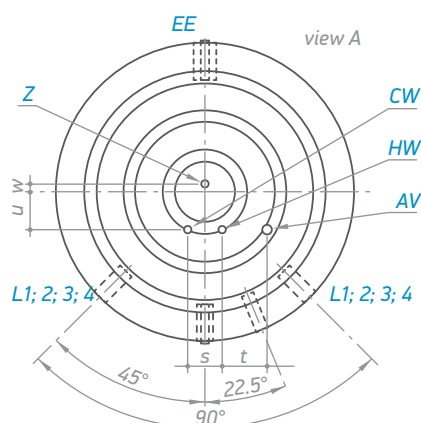
		V 600 65 - EV 150 40	V 800 79 - EV 200 45	V 1000 79 - EV 200 45	V 1500 100 - EV 300 55
CW	- inlet cold water	G ½" B	G 1" B	G 1" B	G 1" B
HW	- outlet hot water	G ½" B	G 1" B	G 1" B	G 1" B
AV	- air vent	G ½"	G ½"	G ½"	G ½"
Z	- recirculation	G ½" B	G ½" B	G ½" B	G ½" B
T	- thermometer	Ø 14 x 1.5	Ø 14 x 1.5	Ø 14 x 1.5	Ø 14 x 1.5
TR	- thermoregulator	G ½"	G ½"	G ½"	G ½"
EE	- electric heating element	G 1½"	G 1½"	G 1½"	G 1½"
L1	- levels 1	G 1½"	G 1½"	G 1½"	G 2" B
L2	- levels 2	G 1½"	G 1½"	G 1½"	G 2" B
L3	- levels 3	G 1½"	G 1½"	G 1½"	G 2" B
L4	- levels 4	G 1½"	G 1½"	G 1½"	G 2" B
TS1	- thermosensor level 1	G ½"	G ½"	G ½"	G ½"
TS2	- thermosensor level 2	G ½"	G ½"	G ½"	G ½"
TS3	- thermosensor level 3	G ½"	G ½"	G ½"	G ½"
TS4	- thermosensor level 4	G ½"	G ½"	G ½"	G ½"

Thread designations according to EN ISO 228-1/

MODEL		V 15S 600 85 - EV 150 40	V 12S 800 99 - EV 200 45	V 15S 1000 99 - EV 200 45	V 12S 1500 120 - EV 300 55
Art. number	Nº	300631	300617	302500	300615
Actual capacity buffer tank	l	447	590	702	1153
Actual capacity hot water tank	l	142	184	184	302
Net weight	kg	188	241	274	353
Insulation (soft PU)	mm	100	100	100	100
Maximum operational temperature buffer tank	°C	95	95	95	95
Maximum operational temperature hot water tank	°C	95	95	95	95
Max. working temperature coil heating element	°C	110	110	110	110
Nominal pressure of buffer tank	MPa	0.3	0.3	0.3	0.3
Max. pressure of hot water tank	MPa	1	1	1	1
Max. pressure of coil heat exchanger	MPa	0.6	0.6	0.6	0.6
Heat exchanger surface S1	m²	2.25	2.89	3.3	3.47
Heat exchanger content S1	l	13.7	26.2	29	31.4
Heat loss ΔT 45K	kWh/24h	4.8	5.1	5.5	6.5
Energy efficiency class		D	E	E	E



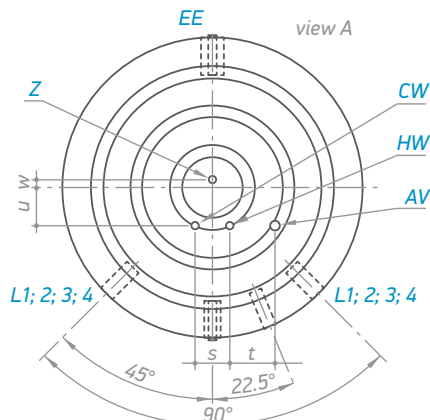
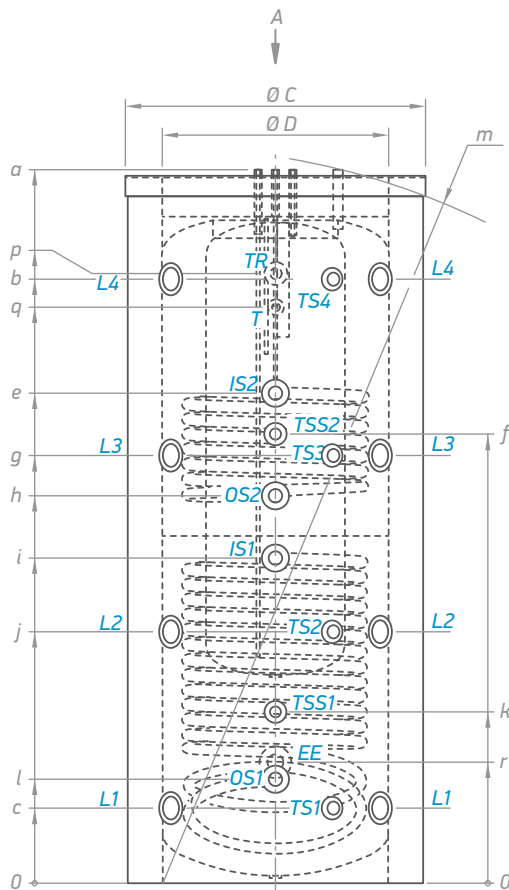
Dimensions ±5 mm					
a	mm	2065	1956	2141	2216
b	mm	1738	1502	1775	1726
c	mm	214	362	362	427
g	mm	1230	1122	1304	1293
i	mm	934	1022	1187	1087
j	mm	722	742	833	860
k	mm	489	582	582	647
l	mm	289	362	362	427
m	mm	2121	2045	2236	2238
p	mm	1747	1600	1795	1740
q	mm	1657	1500	1695	1640
r	mm	307	400	400	470
s	mm	100	100	100	100
t	mm	130	150	150	150
u	mm	110	100	100	110
w	mm	22	22	22	22
Ø C	mm	850	990	990	1200
Ø D	mm	650	790	790	1000



		V 600 85 - EV 150 40	V 800 99 - EV 200 45	V 1000 99 - EV 200 45	V 1500 120 - EV 300 55
CW	- inlet cold water	G ½" B	G 1" B	G 1" B	G 1" B
HW	- outlet hot water	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
AV	- air vent	G ½"	G ½"	G ½"	G ½"
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	- thermoregulator	G ½"	G ½"	G ½"	G ½"
EE	- electric heating element	G 1½"	G 1½"	G 1½"	G 1½"
L1	- levels 1	G 1½"	G 1½"	G 1½"	G 2" B
L2	- levels 2	G 1½"	G 1½"	G 1½"	G 2" B
L3	- levels 3	G 1½"	G 1½"	G 1½"	G 2" B
L4	- levels 4	G 1½"	G 1½"	G 1½"	G 2" B
TS1	- thermosensor level 1	G ½"	G ½"	G ½"	G ½"
TS2	- thermosensor level 2	G ½"	G ½"	G ½"	G ½"
TS3	- thermosensor level 3	G ½"	G ½"	G ½"	G ½"
TS4	- thermosensor level 4	G ½"	G ½"	G ½"	G ½"
TSS1	- thermosensor heat exchanger	G ½"	G ½"	G ½"	G ½"

Thread designations according to EN ISO 228-1

MODEL		V 15/7 S2 600 85 EV 150 40	V 12/9 S2 800 99 EV 200 45	V 15/9 S2 1000 99 EV 200 45	V 12/8 S2 1500 120 EV 300 55
Art. number	Nº	300629	300620	302501	300619
Actual capacity buffer tank	l	440	578	693	1128
Actual capacity hot water tank	l	142	184	184	302
Net weight	kg	203	264	298	390
Insulation (soft PU)	mm	100	100	100	100
Maximum operational temperature buffer tank	°C	95	95	95	95
Maximum operational temperature hot water tank	°C	95	95	95	95
Max. working temperature coil heating element	°C	110	110	110	110
Nominal pressure of buffer tank	MPa	0.3	0.3	0.3	0.3
Max. pressure of hot water tank	MPa	1	1	1	1
Max. pressure of coil heat exchanger	MPa	0.6	0.6	0.6	0.6
Heat exchanger surface S1	m²	2.25	2.89	3.3	3.47
Heat exchanger surface S2	m²	1.04	1.54	1.54	2.3
Heat exchanger content S1	l	13.7	26.2	29	31.4
Heat exchanger content S2	l	6.4	9.4	9.4	20.5
Heat loss ΔT 45K	kWh/24h	4.8	5.1	5.5	6.5
Energy efficiency class		D	E	E	E



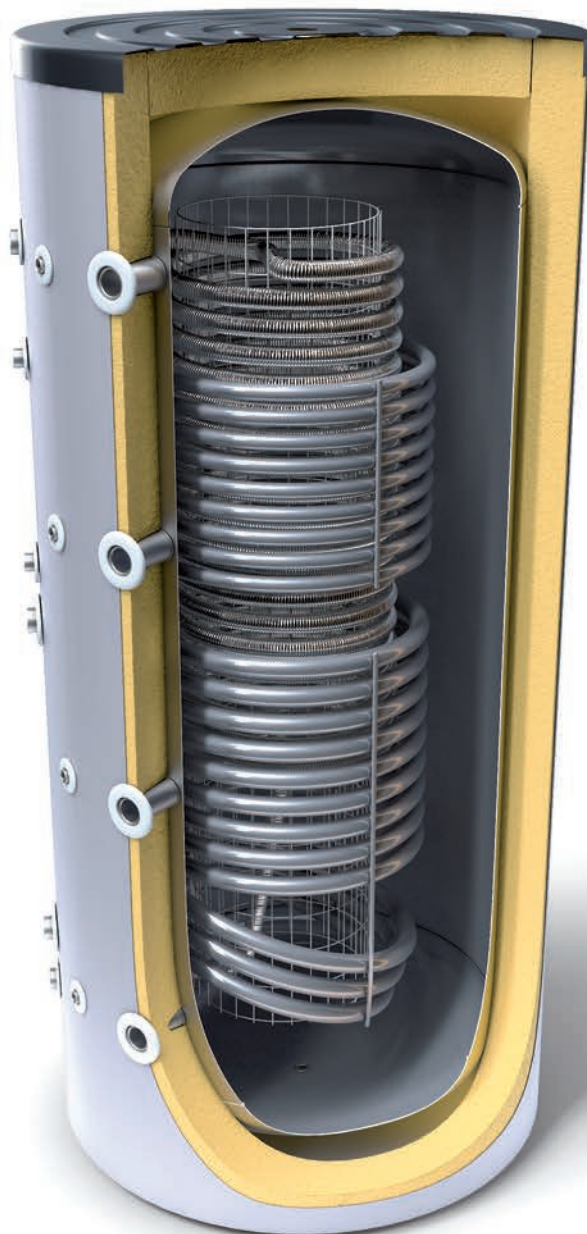
Dimensions ±5 mm				
a	mm	2065	1956	2141
b	mm	1738	1502	1775
c	mm	214	362	362
e	mm	1408	1509	1747
f	mm	1257	1387	1502
g	mm	1230	1122	1304
h	mm	1107	1122	1360
i	mm	934	1022	1187
j	mm	722	742	833
k	mm	489	582	582
l	mm	289	362	362
m	mm	2121	2045	2236
p	mm	1747	1600	1795
q	mm	1657	1500	1695
r	mm	307	400	400
s	mm	100	100	100
t	mm	130	150	150
u	mm	110	100	100
w	mm	22	22	22
Ø C	mm	850	990	990
Ø D	mm	650	790	790

		V 15/7 S2 600 85 - EV150 40	V 12/9 S2 800 99 - EV 200 45	V 15/9 S2 1000 99 - EV 200 45	V 12/8 S2 1500 120 - EV 300 55
CW	- inlet cold water	G ½" B	G 1" B	G 1" B	G 1" B
HW	- outlet hot water	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
IS2	- heat exchanger inlet	G 1"	G 1" B	G 1" B	G 1½" B
OS1	- heat exchanger outlet	G 1"	G 1" B	G 1" B	G 1½" B
OS2	- heat exchanger outlet	G 1"	G 1½" B	G 1½" B	G 1½" B
AV	- air vent	G ½"	G ½"	G ½"	G ½"
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	- thermoregulator	G ½"	G ½"	G ½"	G ½"
EE	- electric heating element	G 1½"	G 1½"	G 1½"	G 1½"
L1	- levels 1	G 1½"	G 1½"	G 1½"	G 2" B
L2	- levels 2	G 1½"	G 1½"	G 1½"	G 2" B
L3	- levels 3	G 1½"	G 1½"	G 1½"	G 2" B
L4	- levels 4	G 1½"	G 1½"	G 1½"	G 2" B
TS1	- thermosensor level 1	G ½"	G ½"	G ½"	G ½"
TS2	- thermosensor level 2	G ½"	G ½"	G ½"	G ½"
TS3	- thermosensor level 3	G ½"	G ½"	G ½"	G ½"
TS4	- thermosensor level 4	G ½"	G ½"	G ½"	G ½"
TSS1	- thermosensor heat exchanger	G ½"	G ½"	G ½"	G ½"
TSS2	- thermosensor heat exchanger	G ½"	G ½"	G ½"	G ½"

Thread designations according to EN ISO 228-1!

Combined and indirectly heated storage tanks

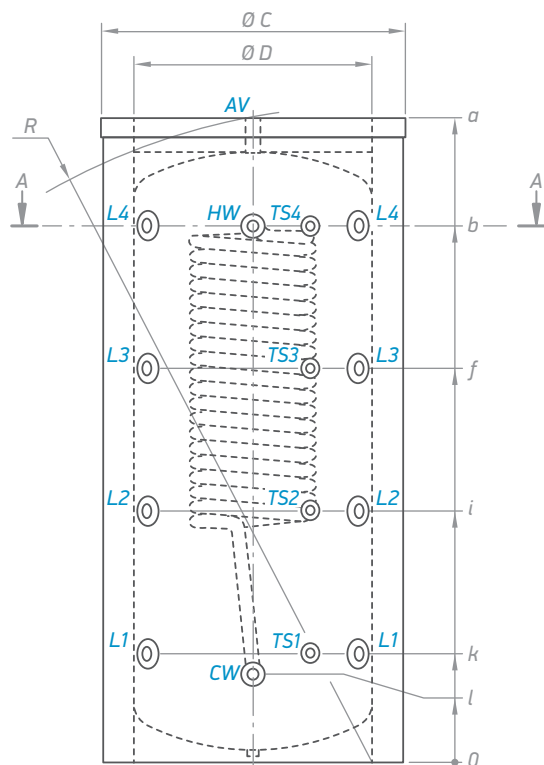
Combined storage tank for central heating and domestic hot water with a hygienic coil



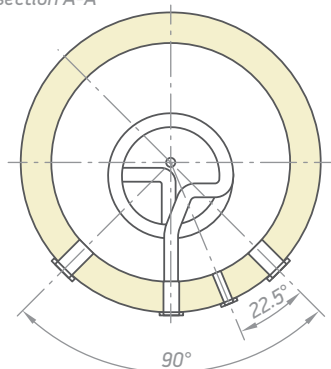
MODEL		V 800 99 HYG5.5	V 1000 99 HYG5.5
Art. number	Nº	302683	302686
Nominal capacity buffer tank	ltr	770	919
Net weight	kg	143	163
Insulation (soft PU)	mm	100	100
Maximum operational temperature buffer tank	°C	95	95
Maximum operational temperature hygienic heat exchanger	°C	95	95
Nominal pressure of buffer tank	MPa	0.3	0.3
Max. pressure hygienic heat exchanger	MPa	1	1
Surface hygienic heat exchanger	m ²	5.5	5.5
Nominal volume hygienic heat exchanger	l	28	28
Heat loss ΔT 45K	kWh/24h	4.1	4.3
Energy efficiency class		E	E

Dimensions ±5 mm

a	mm	1932	2132
b	mm	1500	1775
f	mm	1120	1304
i	mm	740	833
k	mm	360	362
l	mm	290	290
R	mm	1967	2167
Ø C	mm	990	990
Ø D	mm	790	790



section A-A



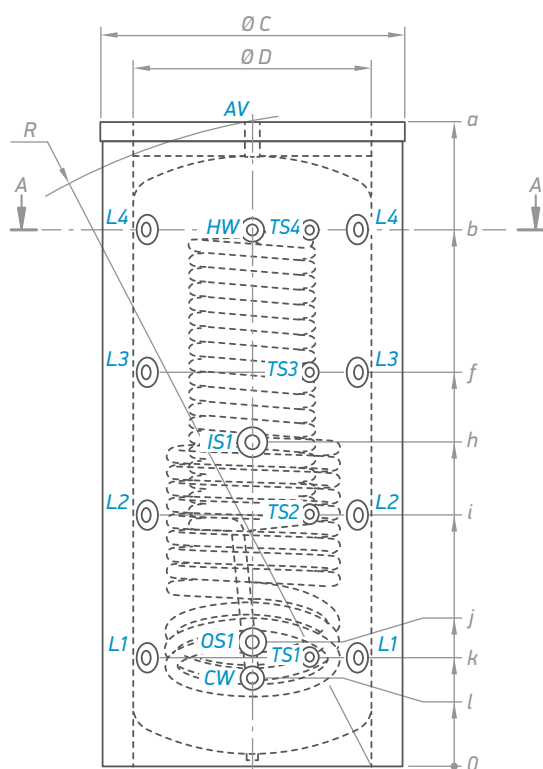
V 800 99 HYG5.5
V 1000 99 HYG 5.5

CW	- cold water inlet	G 1¼" B
HW	- hot water outlet	G 1¼" B
AV	- air vent	G ¾"
L1	- levels 1	G 1½"
L2	- levels 2	G 1½"
L3	- levels 3	G 1½"
L4	- levels 4	G 1½"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"
TS4	- thermosensor 4	G ½"

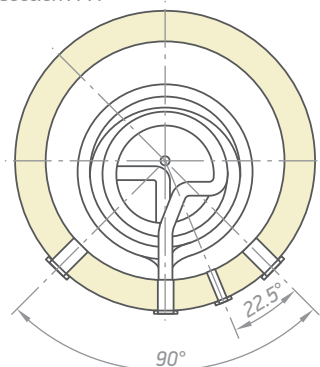
Thread designations according to EN ISO 228-1!

MODEL		V 12S 800 99 HYG5.5	V 12S 1000 99 HYG5.5
Art. number	Nº	302684	302687
Nominal capacity buffer tank	ltr	742	891
Net weight	kg	188	214
Insulation (soft PU)	mm	100	100
Maximum operational temperature buffer tank	°C	95	95
Maximum operational temperature hygienic heat exchanger	°C	95	95
Max. working temperature coil heat exchanger	°C	110	110
Nominal pressure of buffer tank	MPa	0.3	0.3
Max. pressure hygienic heat exchanger	MPa	1	1
Max. pressure of coil heat exchanger	MPa	0.6	0.6
Heat exchanger surface S1	m ²	2.89	2.89
Surface hygienic heat exchanger	m ²	5.5	5.5
Heat exchanger content S1	l	23.3	23.3
Nominal volume hygienic heat exchanger	l	28	28
Heat loss ΔT 45K	kWh/24h	4.1	4.3
Energy efficiency class		E	E

Dimensions ±5 mm			
a	mm	1932	2132
b	mm	1500	1775
f	mm	1120	1304
h	mm	1069	1072
i	mm	740	833
j	mm	409	412
k	mm	360	362
l	mm	290	290
R	mm	1967	2167
Ø C	mm	990	990
Ø D	mm	790	790



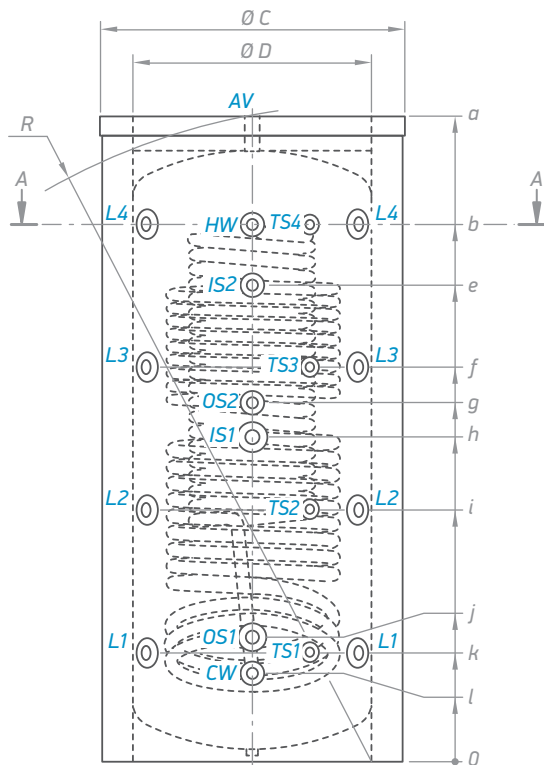
section A-A


V12S 800 99 HYG5.5
V 12S 1000 99 HYG5.5

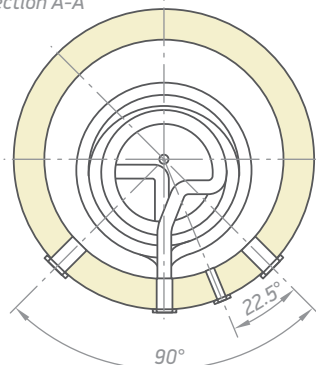
CW	- cold water inlet	G 1¼" B
HW	- hot water outlet	G 1¼" B
IS1	- heat exchanger inlet	G 1½" B
OS1	- heat exchanger outlet	G 1½" B
AV	- air vent	G 1½"
L1	- levels 1	G 1½"
L2	- levels 2	G 1½"
L3	- levels 3	G 1½"
L4	- levels 4	G 1½"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"
TS4	- thermosensor 4	G ½"

Thread designations according to EN ISO 228-1!

MODEL		V 12/6 S2 800 99 HYG5.5	V 12/9 S2 1000 99 HYG5.5
Art. number	Nº	302685	302688
Nominal capacity buffer tank	ltr	735	881
Net weight	kg	210	230
Insulation (soft PU)	mm	100	100
Maximum operational temperature buffer tank	°C	95	95
Maximum operational temperature hygienic heat exchanger	°C	95	95
Max. working temperature coil heat exchanger	°C	110	110
Nominal pressure of buffer tank	MPa	0.3	0.3
Max. pressure hygienic heat exchanger	MPa	1	1
Max. pressure of coil heat exchanger	MPa	0.6	0.6
Heat exchanger surface S1	m²	2.89	2.89
Heat exchanger surface S2	m²	1	1.54
Surface hygienic heat exchanger	m²	5.5	5.5
Heat exchanger content S1	l	23.3	23.3
Heat exchanger content S2	l	5.9	8.7
Nominal volume hygienic heat exchanger	l	28	28
Heat loss ΔT 45K	kWh/24h	4.1	4.3
Energy efficiency class		E	E



section A-A



Dimensions ±5 mm			
a	mm	1932	2132
b	mm	1500	1775
e	mm	1422	1574
f	mm	1120	1304
g	mm	1164	1187
h	mm	1069	1072
i	mm	740	833
j	mm	409	412
k	mm	360	362
l	mm	290	290
R	mm	1967	2167
Ø C	mm	990	990
Ø D	mm	790	790

V 12/6 S2 800 99 HYG 5.5
V 12/9 S2 1000 99 HYG5.5

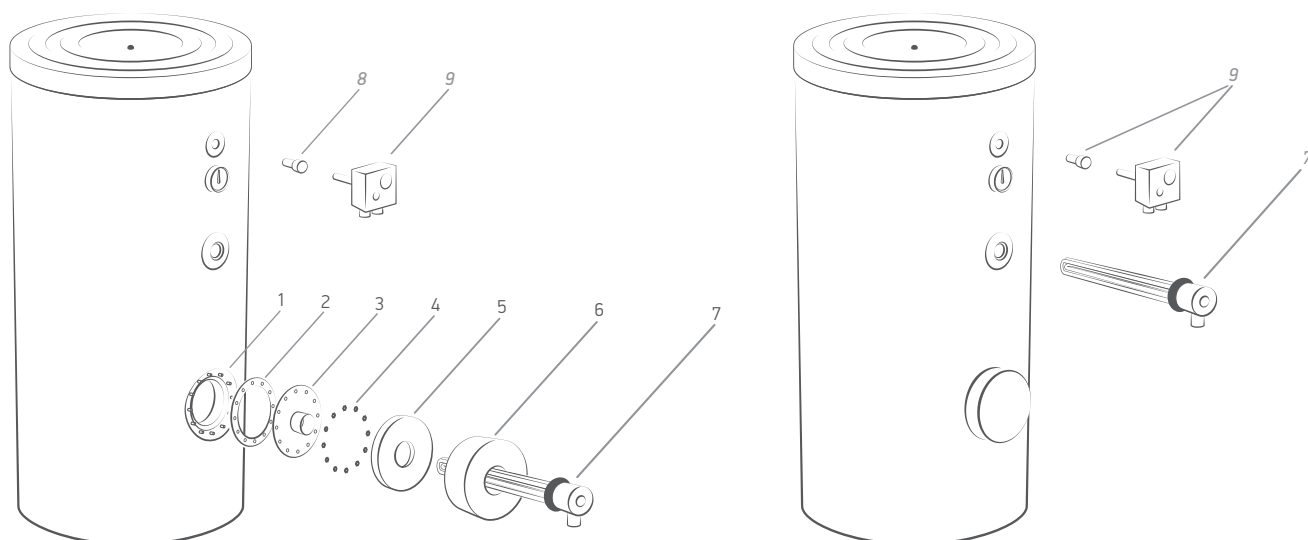
CW	- cold water inlet	G 1¼" B
HW	- hot water outlet	G 1¼" B
IS1	- heat exchanger inlet	G 1½" B
IS2	- heat exchanger inlet	G 1" B
OS1	- heat exchanger outlet	G 1½" B
OS2	- heat exchanger outlet	G 1" B
AV	- air vent	G 1½"
L1	- levels 1	G 1½"
L2	- levels 2	G 1½"
L3	- levels 3	G 1½"
L4	- levels 4	G 1½"
TS1	- thermosensor 1	G ½"
TS2	- thermosensor 2	G ½"
TS3	- thermosensor 3	G ½"
TS4	- thermosensor 4	G ½"

Thread designations according to EN ISO 228-1!

Accessories



Name	Art. N°	Description	Dimensions of packing
Electric sets:			
Water heater set 3 kW plug and play (from 160 l up to 500 l)	301456	Package includes: pos.2 Rubber gasket pos.3 Flange pos. 7 heating element 3000 W / 230 V, with thermostat + thermal cut out 70 ±5°C / 85 ±5°C with plug (MB3000 ORW1_230V-64)	346x186x81 mm
Water heater set 3 kW (from 160 l up to 500 l)	301455	Package includes: pos.2 Rubber gasket pos.3 Flange pos. 7 heating element 3000 W / 230 V 3 phase, L= 290 pos. 9 Thermostat + thermal cut out with thermo pocket (160 l up to 500 l)	530x180x105 mm
Water heater set 4.5 kW (from 160 l up to 500 l)	301457	Package includes: pos.2 Rubber gasket pos.3 Flange pos. 7 heating element 4500 W / 230 V 3 phase, L= 405 pos. 9 Thermostat + thermal cut out with thermo pocket (160 l up to 500 l)	530x180x105 mm
Water heater set 6 kW (from 160 l up to 500 l)	301458	Package includes: pos.2 Rubber gasket pos.3 Flange pos. 7 heating element 6000 W / 230 V 3 phase, L= 440 pos. 9 Thermostat + thermal cut out with thermo pocket (160 l up to 500 l)	530x180x105 mm
Water heater set 4.5 kW (from 800 l up to 2000 l)	300560	Package includes: pos.2 Rubber gasket pos. 7 heating element 4500 W / 230 V 3 phase, L= 405 pos. 9 Thermostat + thermal cut out with thermo pocket (750 l up to 2000 l)	530x180x105 mm
Water heater set 6 kW (from 800 l up to 2000 l)	300562	Package includes: pos.2 Rubber gasket pos. 7 heating element 6000 W / 230 V 3 phase, L= 505 pos. 9 Thermostat + thermal cut out with thermo pocket (750 l up to 2000 l)	720x180x105 mm
Water heater set 7.5 kW (from 800 l up to 2000 l)	300562	Package includes: pos.2 Rubber gasket pos. 7 heating element 7500 W / 400 V 3 phase, L= 615 pos. 9 Thermostat + thermal cut out with thermo pocket (750 l up to 2000 l)	720x180x105 mm
Electrical heat resistance 12 kW (800 to 2000 l) 2"	300562	Package includes: pos.2 Rubber gasket pos. 7 heating element 12000 W / 400 V 3 phase, L=520, 2" pos. 9 Thermostat + thermal cut out with thermo pocket (750 l up to 2000 l)	720x180x105 mm
Heating elements (separately delivered):			
Electrical heat resistance 3 kW (160 l to 500 l)	101025	Heating element 3000 W / 230 V 3 phase, L= 290	425x100x75 mm
Electrical heat resistance 4.5 kW (160 l to 2000 l)	101027	Heating element 4500 W / 230 V 3 phase, L= 405	525x100x75 mm
Electrical heat resistance 6 kW (160 l to 500 l)	101028	Heating element 6000 W / 230 V 3 phase, L= 440	525x100x75 mm
Electrical heat resistance 6 kW (800 l to 2000 l)	101029	Heating element 6000 W / 230 V 3 phase, L= 505	720x180x105 mm
Electrical heat resistance 7.5 kW (800 l to 2000 l)	101030	Heating element 7500 W / 400 V 3 phase, L= 615	720x180x105 mm

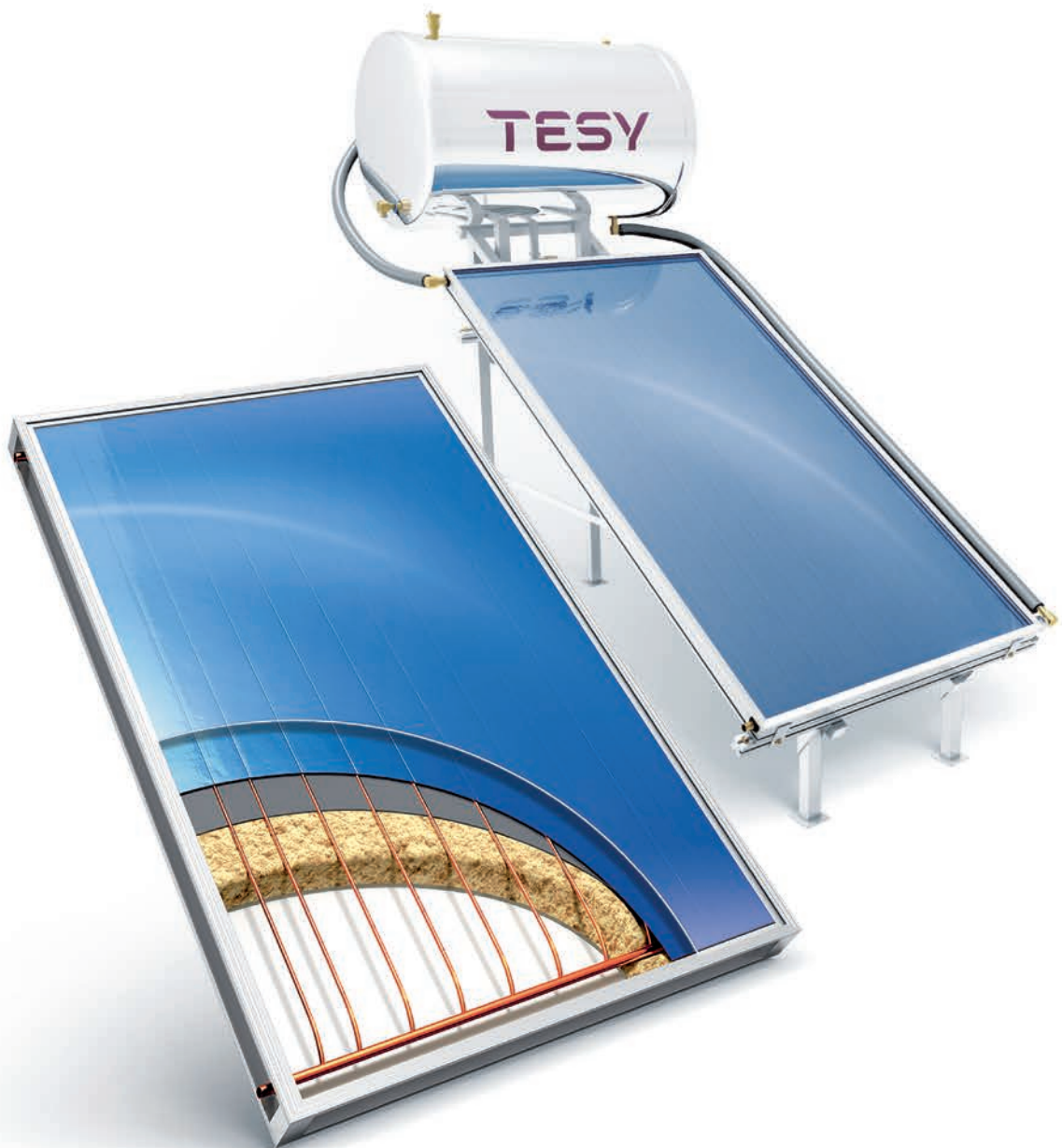


Ceramic Heating element

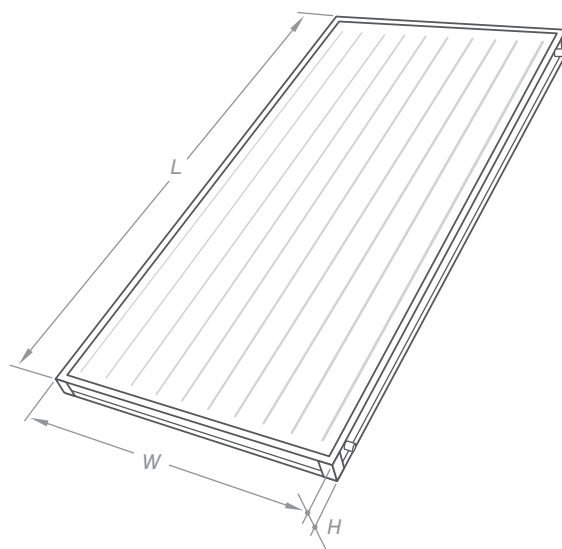
MODEL		CHE2400F	CHE4800R
Art. number		301667	301668
Rated Voltage and frequency		230 V / 50 Hz	230 V / 50 Hz
Rated power	W	2400	4800
Rated current	A	10.4	20.8
Used with storage tanks with a capacity	l	160, 200, 300, 400, 500	160, 200, 300, 400, 500
IP code		IPx4	IPx4
Temperature range		with fixed thermostat at 65°C	with thermostat from 5 to 65°C
Dimensions (flange Ø / length)	mm	180 / 540	180 / 540



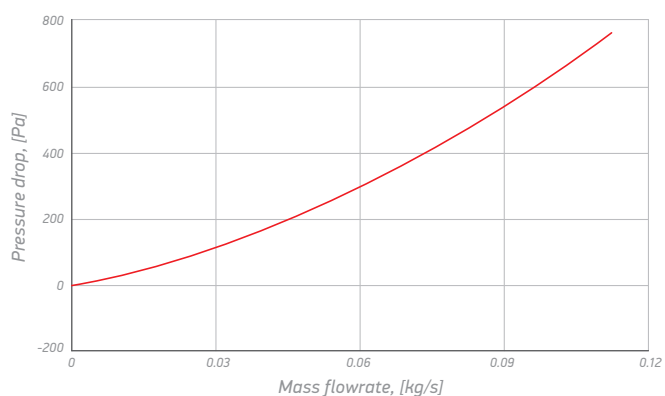
Solar panels and solar heating systems



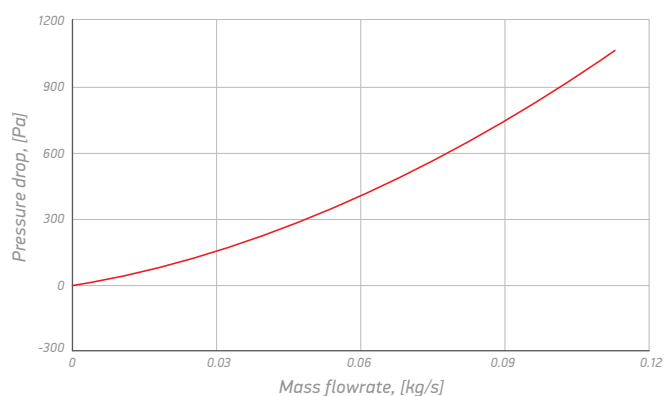
MODEL		SP 08 200 CSL	SP 08 260 CSL
Art. number		421600	421602
Absorber area	m ²	1.80	2.37
Weight empty	kg	36.5	45
Coating		selective	selective
Absorption ratio	%	95	95
Reflection capacity	%	5	5
Max. operating pressure	MPa	1	1
Number of risers	pieces	8	11
Heat carrier		propylene-glycol solution	propylene-glycol solution
Absorber capacity	l	1.28	1.64
Attachment connections	mm	Ø 22	Ø 22
Collector efficiency (absorber)	%	77	78
Heat loss linear ratio a ₁	W/m ² K	3.95	3.77
Heat loss square ratio a ₂	W/m ² K ²	0.016	0.015
Dimensions			
	L	mm	2030
	W	mm	1030
	H	mm	80



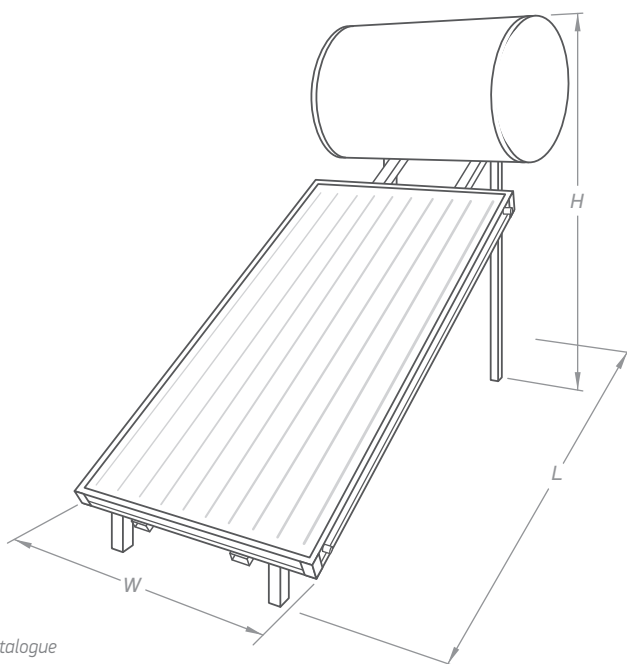
SP 08 200 CSL - Pressure drop



SP 08 260 CSL - Pressure drop



MODEL		TS 01 160	TS 01 300
Art. number	Nº	420118	420119
Solar panel			
Solar panels	pieces	1	2
Gross surface area	m ²	2.5	2
Aperture area	m ²	2.319	1.85
Net weight	kg	53	43
Absorber		al laser welded	al laser welded
Absorber coating		high selective	high selective
Absorbtion	%	95	95
Emission	%	5	5
Max. operating pressure	bar	10	10
Test pressure	bar	15	15
Max. operating temperature	°C	200	200
Heat transfer fluid		Fernox Solar S1	Fernox Solar S1
Fluid content	l	1.9	1.6
Pipe fitting types	mm	Ø 18	Ø 18
Collector aperture efficiency	%	77.5	76.7
Heat losses coefficient a ₁	W/m ² K	4.33	4.32
Heat losses coefficient a ₂	W/m ² K ²	0.0057	0.0077
Frame		aluminum	aluminum
Bottom		0.8 mm galvanized steel	0.8 mm galvanized steel
Glass thickness	mm	4	4
Collector heat insulation		40 mm Glasswool	40 mm Glasswool
Tank			
Tank type		double jacket	double jacket
Tank volume	l	160	300
Expansion vessel volume	l	15	18
Heating fluid volume	l	7.5	7.5
Tank dimensions with insulation and pipes	mm	Ø 600 x 1142	Ø 600 x 1850
Transfer fluid		Fernox Solar S1	Fernox Solar S1
Material of tank interior		glass enamel	glass enamel
Material of tank casing		steel	steel
Tank test pressure	bar	12	12
Tank working pressure	bar	8	8
Heating circuit testing pressure	bar	4.5	4.5
Heating circuit working pressure	bar	3	3
Tank insulation		38 mm CFC free PU	38 mm CFC free PU
Heating element		2 kW with thermostat	2 kW with thermostat
Dimensions of installed system	H	mm	1845
	L	mm	2112
	W	mm	635



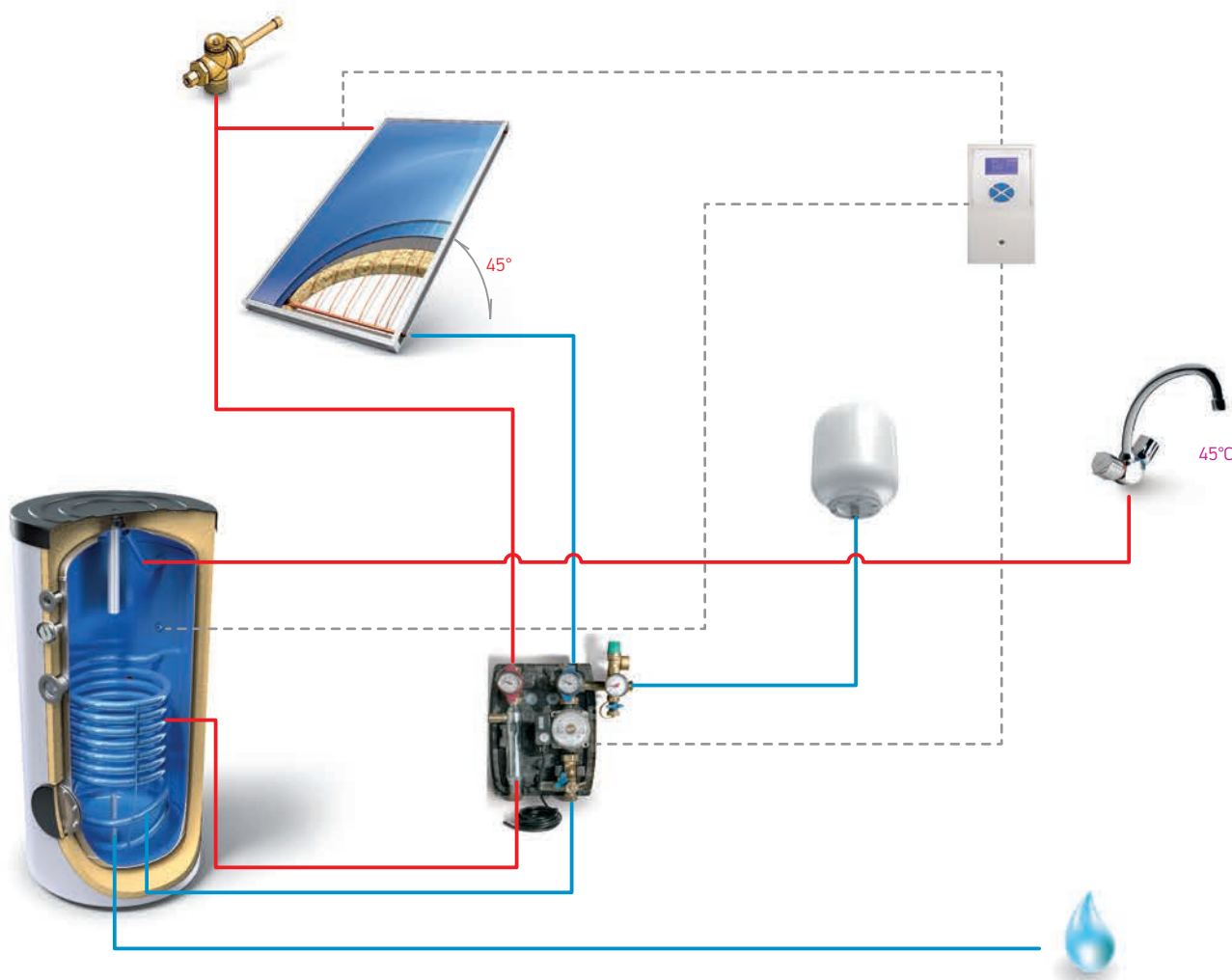
The design and the technical data specified in the catalogue are subject to change without notice.

NAME		Art. number						
Expansion vessel - In conformity with Pressure equipment directive 97/23EC (PED), module H1								
	S 12 L	421170	Capacity	Height	Diameter	Connection	Max working pressure	Max working temperature
	S 24 L	421171	12 l	350 mm	270 mm	¾"	10 bar	130°C
	S 35 L	421181	24 l	460 mm	270 mm	¾"	10 bar	130°C
	S 50 L	421590	35 l	560 mm	350 mm	¾"	10 bar	130°C
Solar controller - Digital control system for the management of solar heat plant								
	Elios X3	420101	Dimensions	Description				
	PT1000		210x120x50 mm	Programmable digital control for thermal solar systems inclusive of solar collectors, circulation pumps and/or diverter valves, accumulation tanks and integrative heating. Besides the fundamental function of the differential temperature regulator, it offers many options and advanced functions to manage plant schemes of various complexities and optimise the overall performance of the plant. - two outputs for phase control of pumps - visualisation of temperature for 24 hours - "solar cooling" function - "anti freeze" function - "pump anti-blocking" function Thanks to the exclusive and versatile design, it is possible to install Elios X3 both in vertical and horizontal position (0°, 90°, 180°, 270°), wall mounted and in a control system. 12 possible shemes of application. 2 triac outputs, 1 relay output, 6 NTC or PT1000 probes inputs, dot matrix graphic display (128x64 pixel) backlit, 4 buttons, 1 state led, box suitable for wall mounting or in a control system.				
	NTC		-					
			-					
	RS02	420089	Dimensions	Description				
	PT1000		100x70x36 mm	Programmable digital control for thermal solar systems inclusive of solar collectors, circulation pumps and/or diverter valves. Besides the fundamental function of the differential temperature regulator, it offers many options and advanced functions to manage plant schemes of various complexities and optimise the overall performance of the plant. - one output for phase control of pumps - "solar cooling" function - "anti freeze" function - "pump anti-blocking" function 2 possible shemes of application. 1 triac output, 1 relay output, 3 NTC or PT1000 probes inputs, two digit 7-segment LED display, 3 buttons, box suitable for wall mounting or in a control system.				
	NTC		-					
			-					
Solar pump group								
	FlowBox Solar 8010	420103	Power of the pump	Dimensions	Max working pressure	Max working temperature	Debit range	
			36/43/49 W	308x270x220 mm	10 bar	110°C	2-16 l/min	
			Description					
			Ready to mount, compact solar unit. Overall height 308 mm, standard circulation pumps with installation length of 130 mm - cabling ex works, balancing valve WattFlow with fill and drain cock, safety unit with pressure gauge, solar safety relief valve 6 bar and fill and drain cock, wall bracket including corrugated tube to connect with the expansion vessel, arrangeable metal gravity brake via 45° position of the thermo handle, thermometer integrated in multifunction isolating valve, joints with solar-fit gaskets, EPP heat insulation. Use of special solar pumps (WILO ST 15/6 ECO or GRUNDFOS SOLAR 15-60).					
	FlowBox Solar 7000	420105	Power of the pump	Dimensions	Max working pressure	Max working temperature	Debit range	
			46/67/93 W	355x340x200 mm	10 bar	110°C	4-36 l/min	
			Description					
			Ready to mount, compact solar return line. Overall height 355 mm, standard circulation pumps with installation length of 180 mm - cabling ex works, balancing valve WattFlow with fill drain and drain cock, safety unit with pressure gauge, solar safety relief valve 6 bar and fill and drain-cock, wall bracket including corrugated tube to connect with the expansion vessel, arrangeable metal gravity brake via 45° position of the thermo handle, thermometer integrated in multifunction isolating valve, joints with solar-fit gaskets, EPP heat insulation. Use of special solar pumps (WILO ST 25/6 ECO or GRUNDFOS SOLAR 25-60).					
Caution! Pressure and temperature should be kept within the limits shown in the adjacent diagram. Avoid temperatures higher than 100°C during continuous operation! In short-term operation (2 h) to +120°C.								

NAME		Art. number	
Connector and fitting for solar collector			
	Blind plug Ø 22	420100	Connection Ø 22
	Nipple Ø 22-Ø 22	420099	Ø 22 - Ø 22
Connection kit for one solar collector			
	Nipple NP-22-¾" (Ø 22-¾")	1 pcs	Connection Ø 22 - G¾"
	Blind plug Ø 22	2 pcs	Ø 22
	Manual air valve with sensor hive SH-22	1 pcs	Ø 22 - ¾"
Flexible house kit FH-22 for solar panels			
	Flexible hose 50 mm	2 pcs	Connection 1"
	Nipple NP-22-1"	4 pcs	Ø 22 - 1"
Roof set			
	MK-SRFR-SP08 Mounting kit for single solar panel SP08 200 / 260	421603	Description They are sent totally packaged, encoded and with installation manual.
	MK-SRDR-SP08 200 Double Mounting kit for two solar panels SP08 200 CSL	421606	Available for: - Flat and slope roofs for one solar panel SP08 xxx 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-SRFR-SP08 260 Double Mounting kit for two solar panels SP08 260 CSL	421605	
PG concetrate			
	Monopropylene Glykol HP	421182	Description 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.

MODEL		SS 150 SP08	SS 200 SP08	SS 300 SP08	SS 500-6 SP08
Art. number	Nº	301673	301675	301676	301677
Number of people served		2-3	3-4	4-5	6-7
Daily water consumption	l	100-150	150-200	200-250	300-350
Maximum available amount of hot water	l	147	225	330	553
Solar panel type		1x SP 08 200 CSL	2x SP 08 200CSL	3x SP 08 200 CSL	4x SP 08 200 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 7000-E
Expansion vessel		S12L	S12L	S12L	S24L
Controller model		RS02	RS02	RS02	ELIOS X3
Propylene glycol - 5 l	pieces	2	2	4	4
Solar stand		1 x MK-SR/FR-SP08	1 x MK-SR/FR-SP08 200 Double	1 x MK-SR/FR-SP08 1 x MK-SR/FR-SP08 200 Double	2 x MK-SR/FR-SP08 200 Double
Input-output connections		1 x Manual air vent 2 x Cap 22 mm 1 x Nipple 22-¾"	1 x Manual air vent 2 x Cap 22 mm 1 x Nipple Ø 22-¾" 2 x Nipple Ø 22-Ø 22	1 x Manual air vent 2 x Cap 22 mm 1 x Nipple Ø 22-¾" 2 x Nipple Ø 22-Ø 22 2 x Flexible hose 4 x Nipple Ø 22-1"	1 x Manual air vent 2 x Cap 22 mm 1 x Nipple Ø 22-¾" 4 x Nipple Ø 22-Ø 22 2 x Flexible hose 4 x Nipple Ø 22-1"

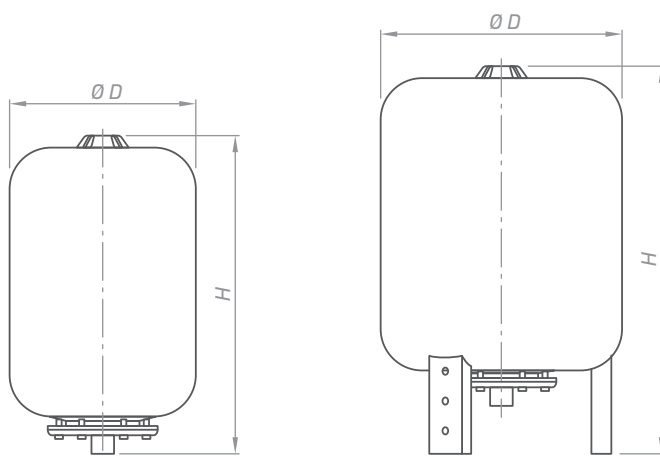
All systems are designed for latitude between ~ 35°N to 50°N and altitude between ~ 0 m to 1000 m!
For more details about system design, please refer to instruction manual!



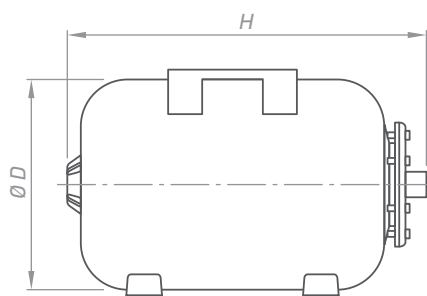
Expansion vessels



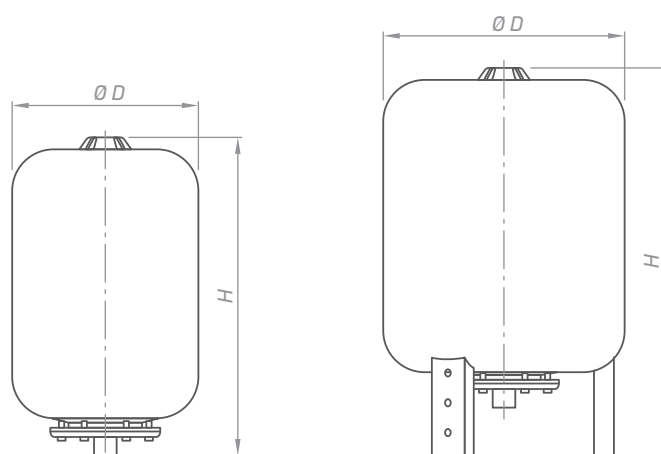
MODEL		S 12L	S 24L	S 35L	S 50L
Art. number	Nº	421170	421171	421181	421190
Capacity	l	12	24	35	50
Body		steel	steel	steel	steel
Membrane material		EPDM	EPDM	EPDM	EPDM
Type of membrane (replacable)		bladder	bladder	bladder	bladder
Pipe connection material		galvanised steel	galvanised steel	galvanised steel	galvanised steel
Pipe connection size, C		3/4"	3/4"	3/4"	3/4"
Colour		white	white	white	white
Mounting		free	free	floor stand	floor stand
Dimensions DxH (diameter x height)	mm	270x350	270x460	350x560	350x670
Initial pre-charge pressure	bar	2.5	2.5	2.5	2.5
Max. working pressure	bar	10	10	10	10
Test pressure	bar	14.3	14.3	14.3	14.3
System working temperature	°C	130	130	130	130



MODEL		H 24L	H 50L
Art. number	Nº	420128	420129
Capacity	l	24	50
Body		steel	steel
Membrane material		EPDM	EPDM
Type of membrane (replacable)		bladder	bladder
Pipe connection material		galvanised steel	galvanised steel
Pipe connection size, C		3/4"	3/4"
Colour		red	red
Mounting		floor stand	floor stand
Dimensions DxH (diameter x height)	mm	270x460	350x560
Initial pre-charge pressure	bar	1.5	1.5
Max. working pressure	bar	10	10
Test pressure	bar	14.3	14.3
System working temperature	°C	99	99



MODEL		V 12L	V 18L	V 24L	V 35L	V 50L	V 80L	V 100L
Art. number	Nº	420121	420122	420123	420124	420125	420126	420127
Capacity	l	12	18	24	35	50	80	100
Body		steel	steel	steel	steel	steel	steel	steel
Membrane material		EPDM	EPDM	EPDM	EPDM	EPDM	EPDM	EPDM
Type of membrane (replacable)		bladder	bladder	bladder	bladder	bladder	bladder	bladder
Pipe connection material		galvanised steel	galvanised steel	galvanised steel	galvanised steel	galvanised steel	galvanised steel	galvanised steel
Pipe connection size, C		3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
Colour		red	red	red	red	red	red	red
Mounting		free	free	free	floor stand	floor stand	floor stand	floor stand
Dimensions DxH (diameter x height)	mm	280x350	270x410	270x460	350x560	350x670	450x710	450x790
Initial pre-charge pressure	bar	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Max. working pressure	bar	10	10	10	10	10	10	10
Test pressure	bar	14.3	14.3	14.3	14.3	14.3	14.3	14.3
System working temperature	°C	99	99	99	99	99	99	99



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For specific models, please ask your dealer.

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