TESY PRO

Каталог оборудования
TESY PROFI LINE

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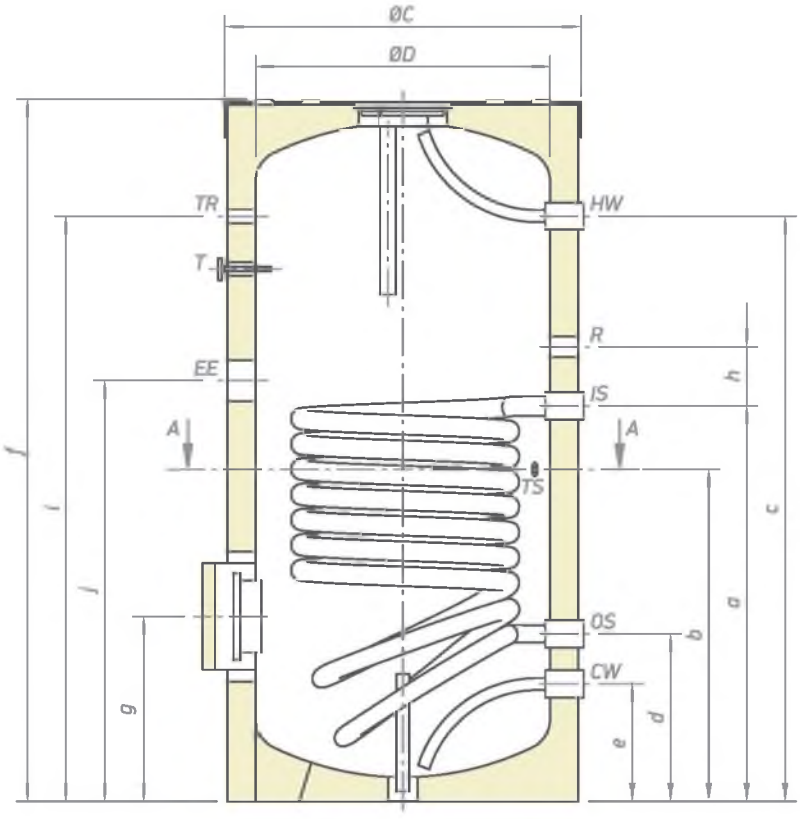
Content: page

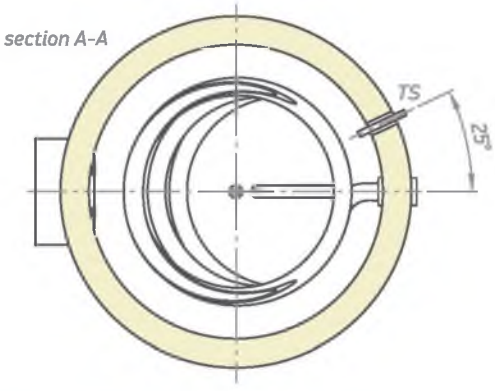
Combined and indirect heated storage water heaters
Indirect heated storage water heaters
Indirectly heated (closed) storage water tanks with one heat exchanger
160 to 500 liters

MODEL	Art. number	Capacity	Net weight	Insulation (Rigid PU)	Heat exchanger surface	Heat exchanger capacity	Exchanged power in continuous mode (max coil output) *60-80/70-90°C	Continuoue flow rate of DHW at ΔT 35°C *60-80/70-90°C
EV 9S 160 60 F40 TP	300696	156L	54kg	50mm	0.96m²	5.8L		
EV 9S 200 60 F40 TP	300697	200L	65kg	50mm	0.96m²	5.8L	32 / 40kW	768 / 955L/h
EV 12S 300 65 F41 TP	300674	300L	92kg	50mm	1.45m²	8.8L	40 / 53kW	882 / 1248L/h
EV 11S 400 75 F42 TP	300671	400L	137kg	50mm	1.65m²	10L	47 / 61kW	1002 / 1500L/h
EV 15S 500 75 F42 TP	300685	500L	145kg	50mm	2.25m²	13.7L	61 / 73kW	1500 / 1795L/h

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



Dimensions [±5mm]	EV 9S 160 60 F40 TP	EV 9S 200 60 F40 TP	EV 12S 300 65 F41 TP	EV 11S 400 75 F42 TP	EV 15S 500 75 F42 TP
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
h [mm]	74	100	206	-	255
i [mm]	785	993	1207	1156	1448
j [mm]	-	714	846	813	986
ØC [mm]	600	600	650	750	750
ØD [mm]	500	500	550	650	650



CW - cold water inlet - G 1" f
HW - hot water outlet - G 1" f
IS - solar installation flow - G 1" f
OS - solar installation return - G 1" f
TS - thermosensor - G ½" f
R - recirculation - G ¾" f
EE - opening for electrical element - G 1½" f
T - external thermometer - Ø14x1.5
TR - opening for thermoregulator - G ½" f

Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off	Heat losses ΔT 45K	Maximum operational temperature	Rated pressure of the water tank	Rated pressure of the heat exchanger	N_L factor	Minimum time of heating *80°C - **15/60°C	Thermo pocket
	1.6kWh/24h	95°C	8bar	6bar			
240L	2.0kWh/24h	95°C	8bar	6bar	4.3	0h 38'	1 piece
330L	2.5kWh/24h	95°C	8bar	6bar	8.1	0h 40'	1 piece
412L	2.8kWh/24h	95°C	8bar	6bar	12	0h 41'	1 piece
553L	3.1kWh/24h	95°C	8bar	6bar	19	0h 41'	1 piece

* - outlet - inlet temperature of the heat transfer fluid
** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)

Combined and indirect heated storage water heaters
Indirect heated storage water heaters
Indirectly heated (closed) storage water tanks with one heat exchanger
800 to 2000 liters

MODEL	Art. number	Capacity	Net weight	Insulation (Soft PU)	Heat exchanger surface	Heat exchanger capacity	Exchanged power in continuous mode (max coil output) *60-80/70-90°C	Continuous flow rate of DHW at ΔT 35°C *60-80/70-90°C
EV 12S 800 99 F43 TP	300677	800L	221kg	100mm	100m²	26.2L	79.8 / 103.7kW	1963.1 / 2551L/h
EV 13S 1000 105 F44 TP	300681	988L	233kg	100mm	100m²	31.3L	95.2 / 123.8kW	2341.9 / 3045.5L/h
EV 12S 1500 120 F45 TP2	300673	1500L	371kg	100mm	100m²	30.4L	140 / 175kW	3450 / 4330L/h
EV 15S 2000 130 F46 TP2	300683	1950L	442kg	100mm	100m²	41.6L	198 / 250kW	4874 / 6160L/h

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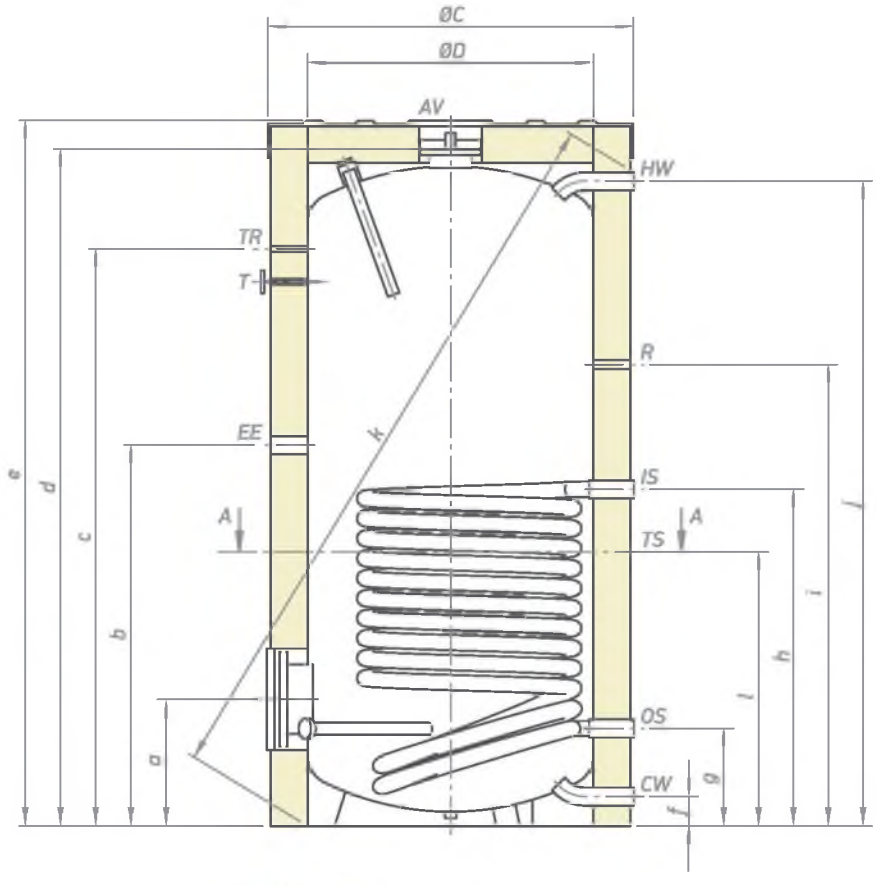
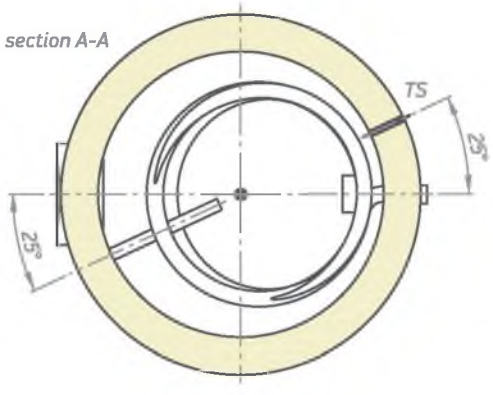


Dimensions [±5mm]	EV 12S 800 99 F43 TP	EV 13S 1000 105 F44 TP	EV 12S 1500 120 F45 TP2	EV 15S 2000 130 F46 TP2
a [mm]	351	354	468	497
b [mm]	1051	1132	1168	1298
c [mm]	1592	1475	1768	1927
d [mm]	1822	1894	-	-
e [mm]	1937	2002	2193	2399
f [mm]	82.5	81.5	90	90
g [mm]	269	272	421	411
h [mm]	929	987	1081	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
ØC [mm]	990	1050	1200	1300
ØD [mm]	790	850	1000	1100



CW - cold water inlet	CW	G 1½" m	G 2" m
HW - hot water outlet	HW	G 1½" m	G 2" m
IS - solar installation flow	IS	G 1½" m	G 1½" m
OS - solar installation return	OS	G 1½" m	G 1½" m
TS - thermosensor	TS	G ½" f	G ½" f
R - recirculation	R	G ¾" f	G 1½" f
EE - opening for electrical element	EE	G 1½" f	G 1½" f
T - external thermometer	T	Ø14x1.5	Ø14x1.5
TR - opening for thermoregulator	TR	G ½" f	G ½" f
AV - opening for air ventilation	AV	G ¾" f	G ¾" f

Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off	Heat losses ΔT 45K	Maximum operational temperature	Rated pressure of the water tank	Rated pressure of the heat exchanger	N_L factor	Minimum time of heating *80°C - **15/60°C	Thermo pocket
845L	5.1kWh/24h	95°C	8bar	6bar	30	0h 40'	1 piece
1081L	5.3kWh/24h	95°C	8bar	6bar	41	0h 46'	1 piece
1660L	6.5kWh/24h	95°C	8bar	6bar	70	0h 45'	2 pieces
2387L	8.3kWh/24h	95°C	8bar	6bar	94	0h 57'	2 pieces

* - outlet - inlet temperature of the heat transfer fluid
** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)

Combined and indirect heated storage water heaters

Indirect heated storage water heaters

Indirectly heated (closed) storage water tanks with two heat exchangers

200 to 500 liters

MODEL	Art. number	Capacity	Net weight	Insulation (Rigid PU)	Heat exchanger surface		Heat exchanger capacity		Exchanged power in continuous mode (max coil output) *60-80/70-90°C		Continuous flow rate of DHW at ΔT 35°C *60-80/70-90°C	
					S1	S2	S1	S2	S1	S2	S1	S2
EV 7/5S2 200 60 F40 TP2	300694	200L	70kg	50mm	0.75m²	0.54m²	4.6L	3.3L	23/ 30kW	13/ 20kW	558/ 648L/h	318/ 468L/h
EV 10/7S2 300 65 F41 TP2	300668	300L	100kg	50mm	1.21m²	0.85m²	7.4L	5.2L	34/ 46kW	25/ 33kW	792/ 1092L/h	594/ 785L/h
EV 11/5S2 400 75 F42 TP2	300672	400L	146kg	50mm	1.65m²	0.76m²	10L	4.6L	47/ 61kW	21/ 30kW	1002/ 1500L/h	470/ 648L/h
EV 15/7S2 500 75 F42 TP2	300686	500L	158kg	50mm	2.25m²	1.06m²	13.7L	6.4L	61/ 73kW	35/ 47kW	1500/ 1795L/h	785/ 1002L/h

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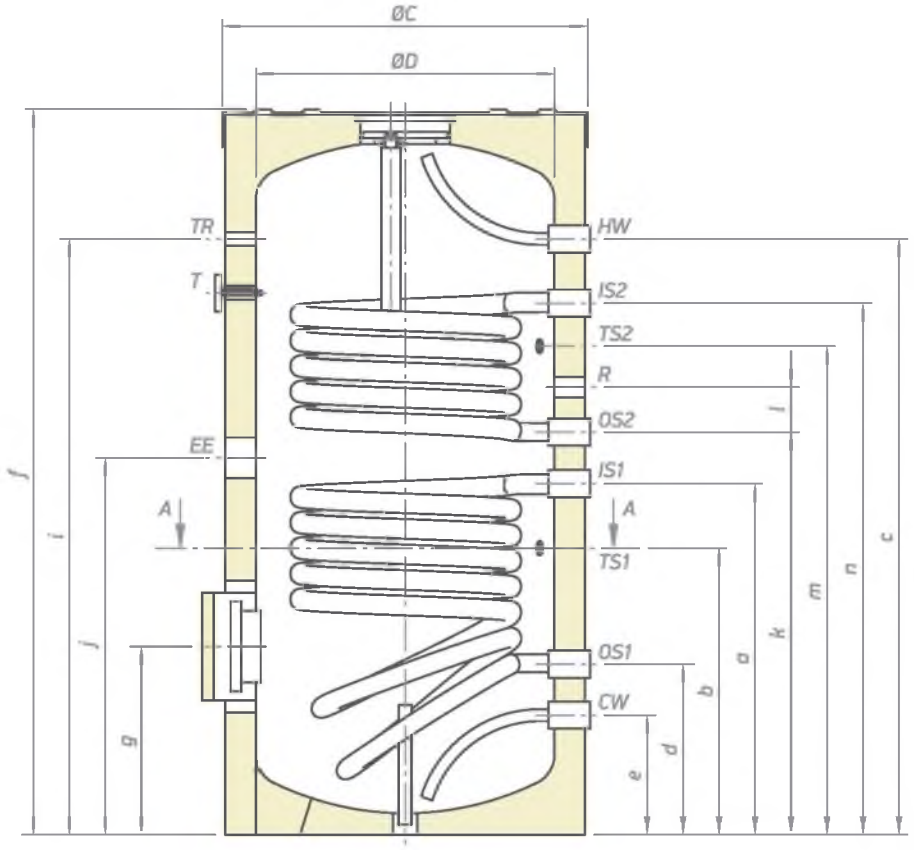
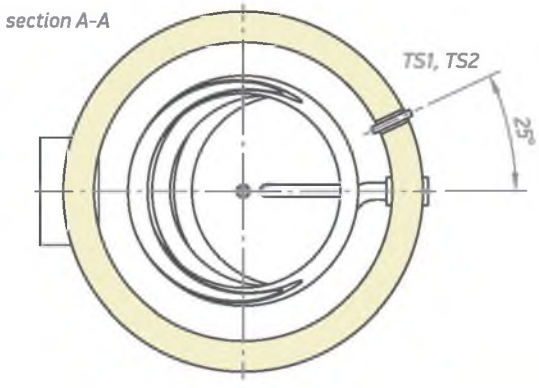


Dimensions [±5mm]	EV 7/5S 200 60 F40 TP2	EV 10/7S2 300 65 F41 TP2	EV 11/5S2 400 75 F42 TP2	EV 15/7S2 500 75 F42 TP2
a [mm]	585	718	775	944
b [mm]	478	610	617	750
c [mm]	993	1207	1156	1448
d [mm]	284	288	302	299
e [mm]	199	203	220	214
f [mm]	1200	1420	1407	1674
g [mm]	314	314	331	324
i [mm]	993	1207	1156	1448
j [mm]	628	760	813	986
k [mm]	671	803	858	1029
l [mm]	75	100	85	136
m [mm]	815	996	998	1265
n [mm]	886	1104	1073	1330
ØC [mm]	600	650	750	750
ØD [mm]	500	550	650	650

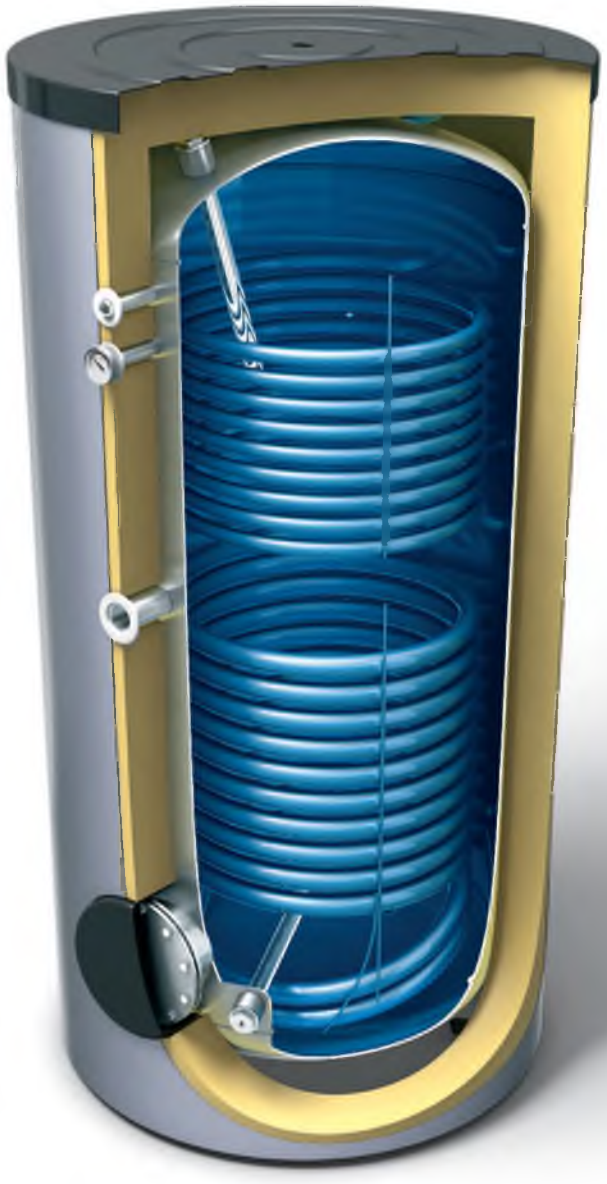


CW - cold water inlet - G 1" f
HW - hot water outlet - G 1" f
IS1 - solar installation flow - G 1" f
IS2 - central heating flow - G 1" f
OS1 - solar installation return - G 1" f
OS2 - central heating return - G 1" f
TS1 - thermosensor 1 - G ½" f
TS2 - thermosensor 2 - G ½" f
R - recirculation - G ¾" f
EE - opening for electrical element - G 1½" f
T - external thermometer - Ø14x1.5
TR - opening for thermoregulator - G ½" f

Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off S1	S2	Heat losses ΔT 45K	Maximum operational temperature	Rated pressure	Rated pressure of the heat exchanger	N_L factor S1	S2	Minimum time of heating *80°C - **15/60°C S1	S2	Thermo pocket
225L	111L	2.0kWh/24h	95°C	8bar	6bar	4.1	1	0h 39'	0h 39'	2 pieces
302L	151L	2.5kWh/24h	95°C	8bar	6bar	8	1.4	0h 40'	0h 39'	2 pieces
405L	200L	2.8kWh/24h	95°C	8bar	6bar	12	2	0h 41'	0h 39'	2 pieces
510L	250L	3.1kWh/24h	95°C	8bar	6bar	18	3	0h 42'	0h 39'	2 pieces

* - outlet - inlet temperature of the heat transfer fluid
** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)

Combined and indirect heated storage water heaters
Indirect heated storage water heaters
Indirectly heated (closed) storage water tanks with two heat exchangers
800 to 2000 liters



MODEL	Art. number	Capacity	Net weight	Insulation (Soft PU)	Heat exchanger surface		Heat exchanger capacity		Exchanged power in continuous mode (max coil output) *60-80/70-90°C		Continuous flow rate of DHW at ΔT 35°C *60-80/70-90°C	
					S1	S2	S1	S2	S1	S2	S1	S2
EV 12/9S2 800 99 F43 TP2	300680	800L	252kg	100mm	2.89m²	1.54m²	26.2L	9.4L	79.8/ 103.7kW	45/ 55.3kW	1963.1/ 2551L/h	1107/ 1360.4L/h
EV 13/7S2 1000 105 F44 TP2	300682	977L	279kg	100mm	3.45m²	1.31m²	31.3L	7.9L	95.2/ 123.8kW	36.2/ 47kW	2341.9/ 3045.5L/h	890.5/ 1156.2L/h
EV 12/8S2 1500 120 F45 TP2	300678	1500L	408kg	100mm	3.30m²	2.30m²	30.4L	20.5L	140/ 175kW	95/ 120kW	3450/ 4330L/h	2349/ 2970L/h
EV 15/9S2 2000 130 F46 TP2	300687	1928L	486kg	100mm	4.50m²	2.75m²	41.6L	25.2L	198/ 250kW	108/ 142kW	4874/ 6160L/h	2658/ 3509L/h

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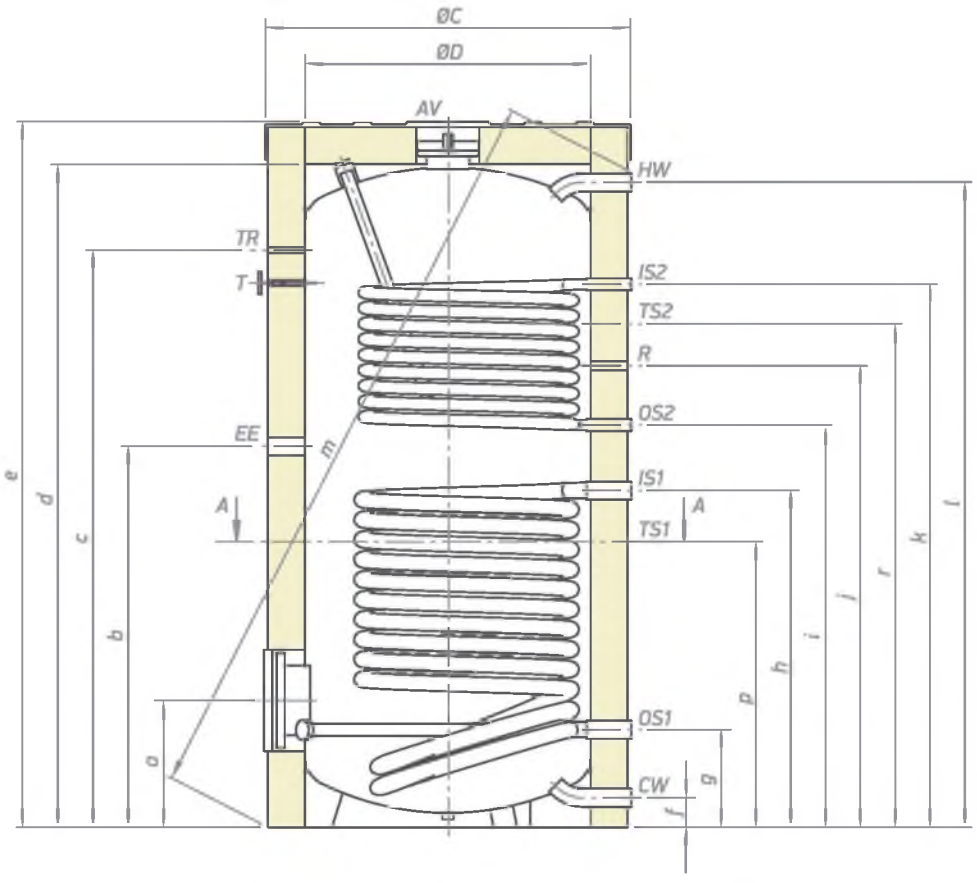
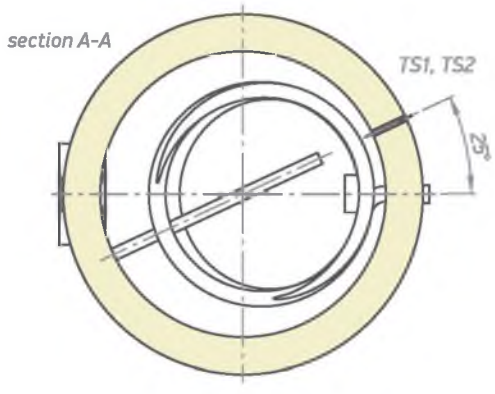


Dimensions [±5mm]	EV 12/9S2 800 99 F43 TP2	EV 13/7S2 1000 105 F44 TP2	EV 12/8S2 1500 120 F45 TP2	EV 15/9S2 2000 130 F46 TP2
a [mm]	351	354	468	497
b [mm]	1051	1132	1168	1287
c [mm]	1592	1475	1768	1927
d [mm]	1830	1895	-	-
e [mm]	1937	2002	2193	2399
f [mm]	82.5	81.5	90	90
g [mm]	269	272	421	420
h [mm]	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
ØC [mm]	990	1050	1200	1300
ØD [mm]	790	850	1000	1100



CW - cold water inlet	CW	G 1½" m	G 2" m
HW - hot water outlet	HW	G 1½" m	G 2" m
IS1 - solar installation flow	IS1	G 1½" m	G 1½" m
IS2 - central heating flow	IS2	G 1" m	G 1½" m
OS1 - solar installation return	OS1	G 1½" m	G 1½" m
OS2 - central heating return	OS2	G 1" m	G 1½" m
TS1 - thermosensor	TS1	G ½" f	G ½" f
TS2 - thermosensor	TS2	G ½" f	G ½" f
R - recirculation	R	G ¾" f	G 1½" f
EE - opening for electric element	EE	G 1½" f	G 1½" f
T - external thermometer	T	Ø14x1.5	Ø14x1.5
TR - opening for thermoregulator	TR	G ½" f	G ½" f
AV - opening for air ventilation	AV	G ¾" f	G ¾" f

Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off S1	S2	Heat losses ΔT 45K	Maximum operational temperature	Rated pressure	Rated pressure of the heat exchanger	N_L factor S1	S2	Minimum time of heating *80°C - **15/60°C S1	S2	Thermo pocket
823L	401L	5.1kWh/24h	95°C	8bar	6bar	29	12	0h 40'	0h 39'	2 pieces
503L	1055L	5.3kWh/24h	95°C	8bar	6bar	40	19	0h 46'	0h 41'	2 pieces
1660L	611L	6.5kWh/24h	95°C	8bar	6bar	70	18	0h 45'	0h 30'	2 pieces
2387L	806L	8.3kWh/24h	95°C	8bar	6bar	94	31	0h 57'	0h 35'	2 pieces

* - outlet - inlet temperature of the heat transfer fluid
** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)

MODEL	Art. number	Capacity	Net weight	Insulation (Rigid PU)	Heat exchanger surface	Heat exchanger capacity	Exchanged power in continuous mode (max coil output) *60-80/70-90°C	Continuous flow rate of DHW at ΔT 35°C *60-80/70-90°C
EV 17S 300 65 F41 TP3	300902	289L	102kg	50mm	2.1m²	12.6L	58 / 79kW	1422 / 1932L/h
EV 17S 400 75 F42 TP3	300900	387L	128kg	50mm	2.55m²	15.5L	72 / 98kW	1776 / 2400L/h
EV 23S 500 75 F42 TP3	300901	482L	152kg	50mm	3.4m²	23.3L	100 / 135kW	2448 / 3306L/h

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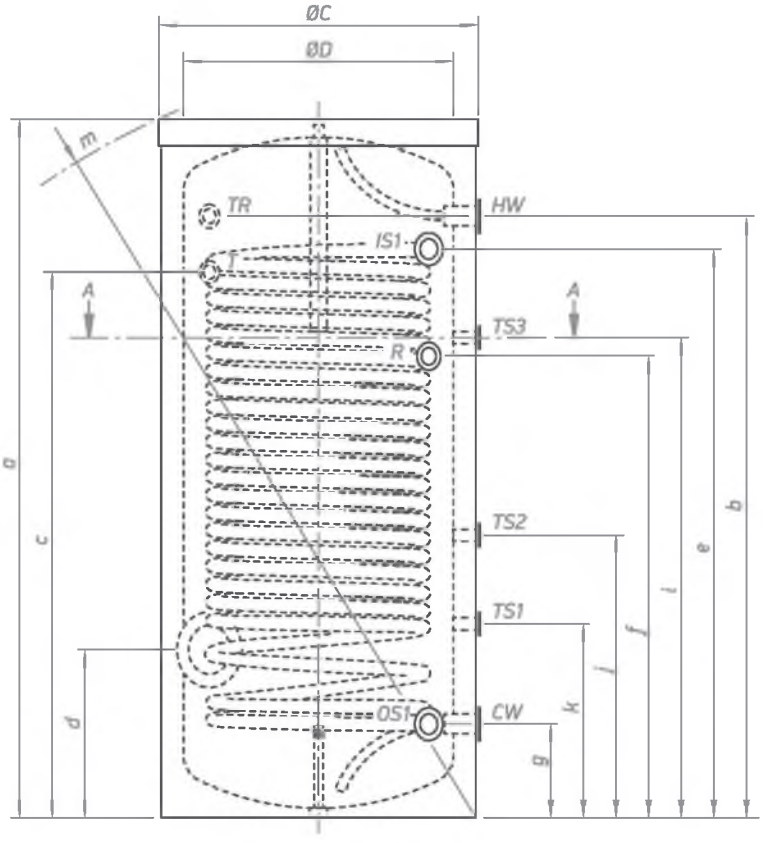
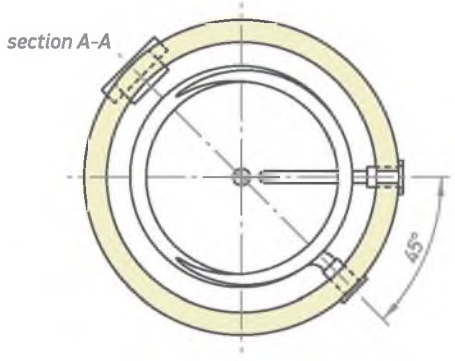


Dimensions (±5mm)	EV 17S 300 65 F41 TP3	EV 17S 400 75 F42 TP3	EV 23S 500 75F42 TP3
a [mm]	1420	1400	1670
b [mm]	1184	1168	1447
c [mm]	1094	1078	1357
d [mm]	371	411	405
e [mm]	1101	1120	1378
f [mm]	953	960	1161
g [mm]	205	225	225
i [mm]	1055	1059	1161
j [mm]	691	778	680
k [mm]	398	448	467
m [mm]	1560	1590	1833
ØC [mm]	650	750	750
ØD [mm]	550	650	650



CW - cold water inlet - G 1" f
HW - hot water outlet - G 1" f
IS1 - heat exchanger inlet - G 1" f
OS1 - heat exchanger outlet - G 1" f
TS1; 2; 3 - probe for thermosensor 1; 2; 3 - G ½" f
R - recirculation - G ¾" f
T - thermometer - Ø14x1.5
TR - thermoregulator - G ½" f

Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off	Heat losses ΔT 45K	Maximum operational temperature	Maximum operational temperature of heat exchanger	Rated pressure	Rated pressure of the heat exchanger	Thermo pocket
302L	2.5kWh/24h	95°C	110°C	8bar	6bar	3 pieces
412L	2.8kWh/24h	95°C	110°C	8bar	6bar	3 pieces
553L	3.1kWh/24h	95°C	110°C	8bar	6bar	3 pieces

* - outlet - inlet temperature of the heat transfer fluid
** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)

MODEL	Art. number	Capacity	Net weight	Insulation (Rigid PU)	Heat exchanger surface	Heat exchanger capacity	Exchanged power in continuous mode (max coil output) *60-80/70-90°C	Continuous flow rate of DHW at ΔT 35°C *60-80/70-90°C
EV 2x15S 300 65 F41 P3	300903	279L	112kg	50mm	3m²	18.3L	91 / 123kW	2238 / 3018L/h

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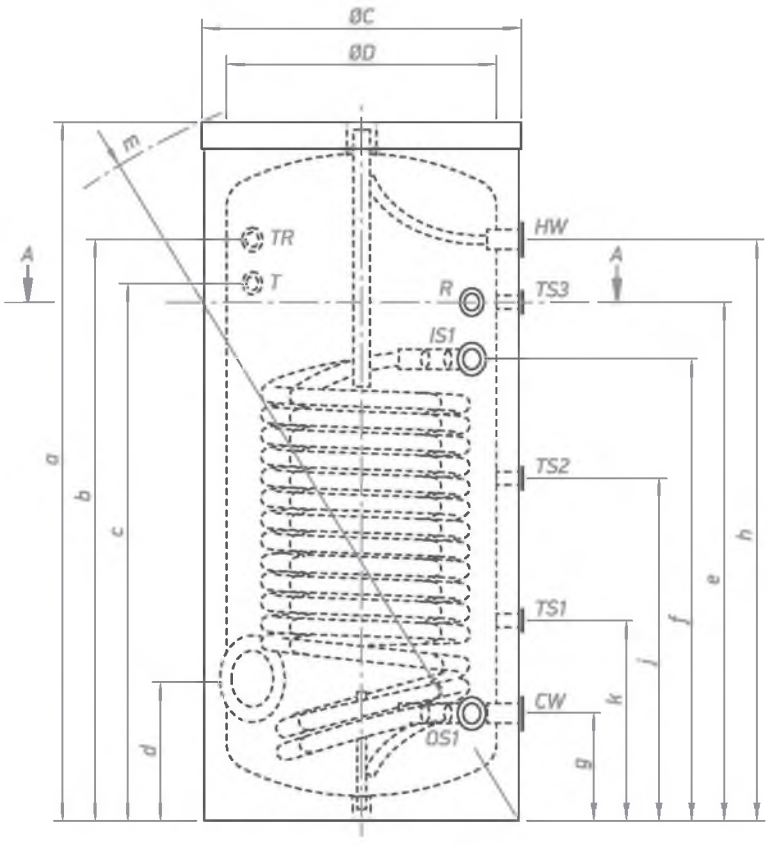
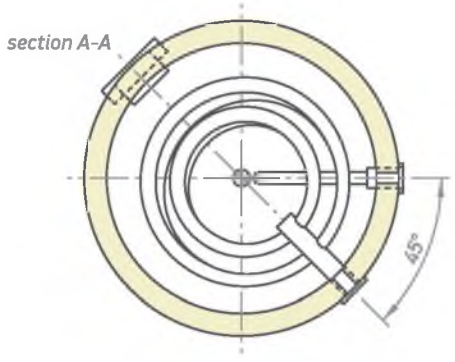


Dimensions [±5mm]	EV 2x15S 300 65 F41 P3
a [mm]	1420
b [mm]	1184
c [mm]	1094
d [mm]	278
e [mm]	937
f [mm]	1055
g [mm]	205
h [mm]	1184
j [mm]	691
k [mm]	398
m [mm]	1560
ØC [mm]	650
ØD [mm]	550



CW - cold water inlet - G 1" f
HW - hot water outlet - G 1" f
IS1 - heat exchanger inlet - G 1" f
OS1 - heat exchanger outlet - G 1" f
TS1; 2; 3 - probe for thermosensor 1; 2; 3 - G ½" f
R - recirculation - G ¾" f
T - thermometer - Ø14x1.5
TR - thermoregulator - G ½" f

Maximum quantity of drawn off water MIX 45°C (**15-60°C), Power input cut off	Heat losses ΔT 45K	Maximum operational temperature	Maximum operational temperature of heat exchanger	Rated pressure	Rated pressure of the heat exchanger	Thermo pocket
290L	2.1kWh/24h	95°C	110°C	8bar	6bar	3 pieces

* - outlet - inlet temperature of the heat transfer fluid
** - 15°C - cold water temperature, 60°C - hot water temperature (domestic water)

MODEL	Art. number	Capacity	Net weight	Insulation (Rigid PU)
EV 200 60 F40 TP3	300689	200L	45kg	50mm
EV 300 65 F41 TP3	300691	300L	66kg	50mm
EV 500 75 F42 TP3	300693	500L	109.8kg	50mm

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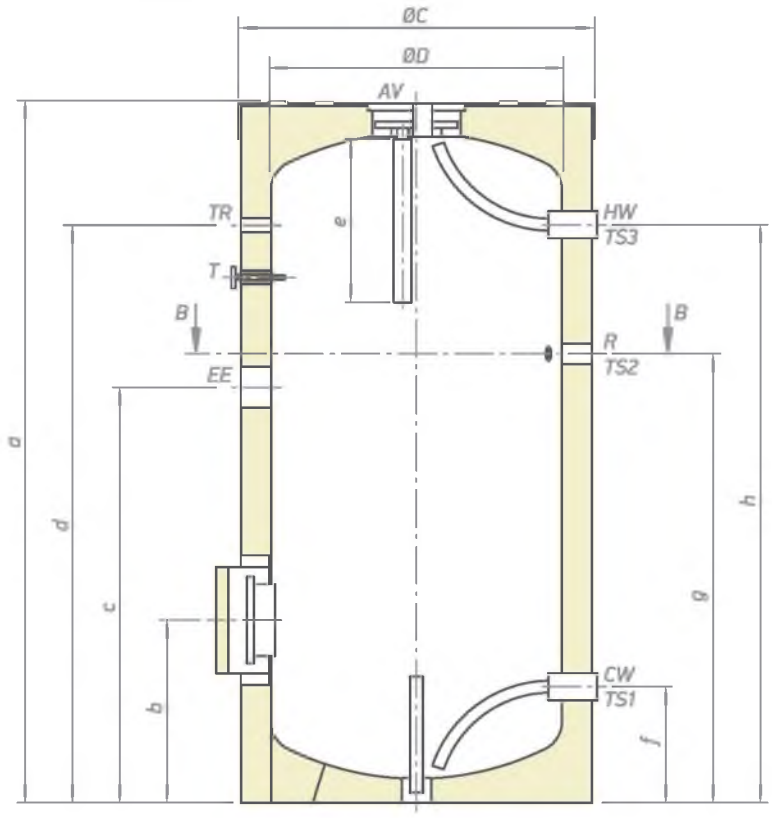
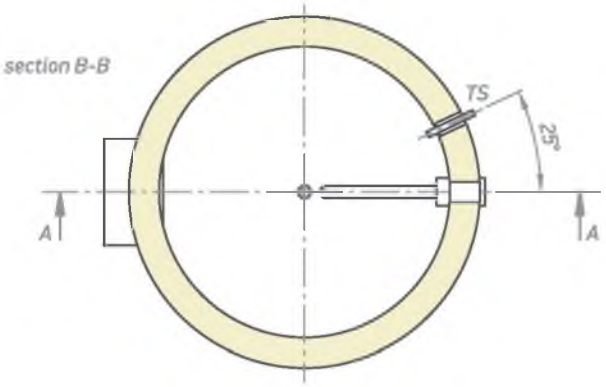
section A-A



Dimensions [±5mm]	EV 200 60 F40 TP3	EV 300 65 F41 TP3	EV 500 75 F42 TP3
a [mm]	1207	1427	1702
b [mm]	314	314	321
c [mm]	714	846.5	983.5
d [mm]	993	1207	1445
e [mm]	284	327	500
f [mm]	199	203	211
g [mm]	771	1010	1196
h [mm]	993	1207	1445
ØC [mm]	600	650	750
ØD [mm]	500	550	650

section B-B



CW - cold water inlet - G 1" f
HW - hot water outlet - G 1" f
R - recirculation - G ¾" f
TS1; 2; 3 - thermosensor - G ½" f
EE - opening for electrical element - G 1" f
T - external thermometer - Ø14x1.5
TR - opening for thermoregulator - G ½" f
AV - opening for air ventilation - G ¾" f

Heat losses ΔT 45K	Maximum operational temperature	Rated pressure	Thermo pocket
2.0kWh/24h	95°C	8bar	3 pieces
2.5kWh/24h	95°C	8bar	3 pieces
3.0kWh/24h	95°C	8bar	3 pieces

MODEL	Art. number	Capacity	Net weight	Insulation (Soft PU)
EV 800 99 F43 TP3	300785	800L	175kg	100mm
EV 1000 105 F44 TP3	300669	1000L	211kg	100mm

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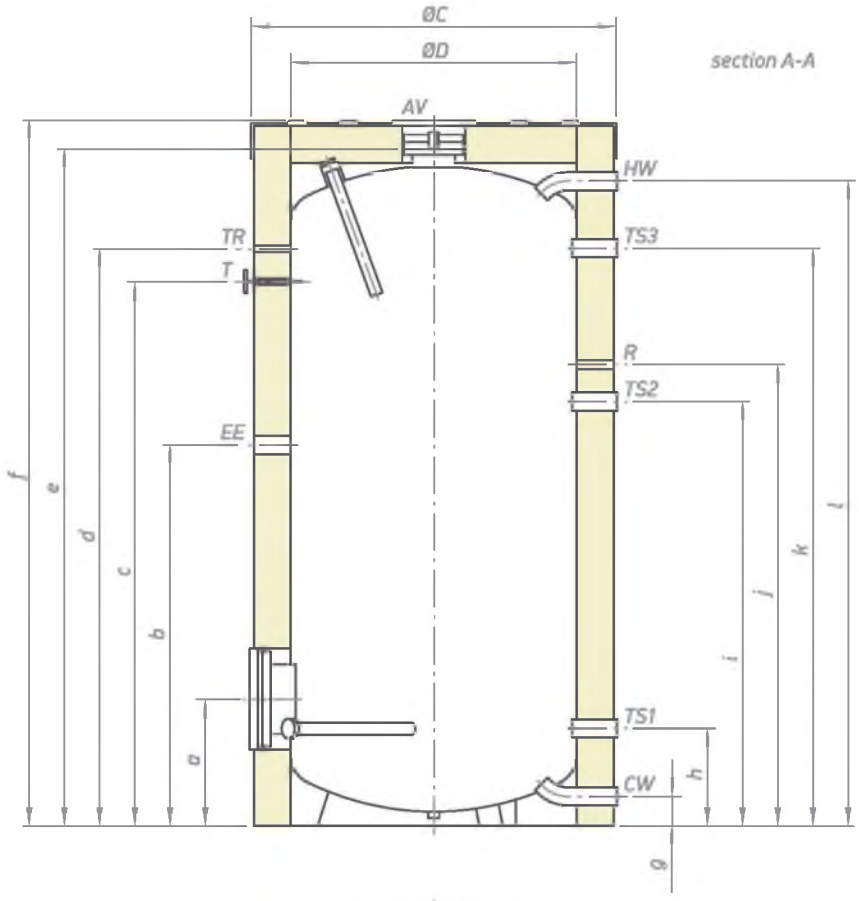
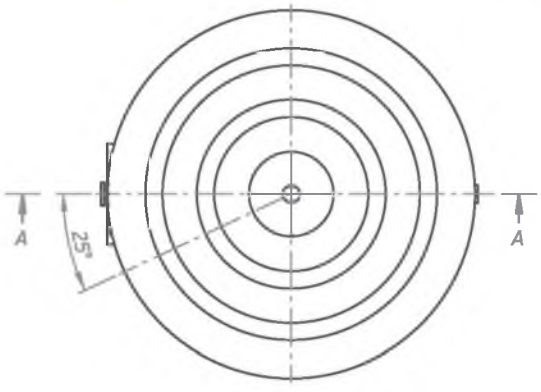
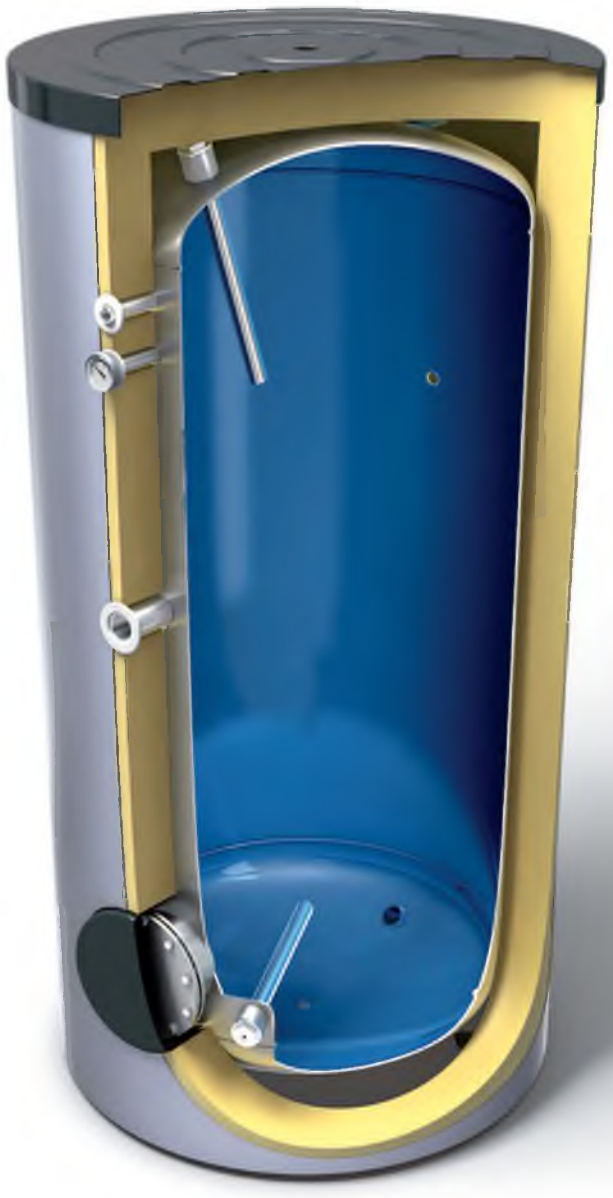




Dimensions [±5mm]	EV 800 99 F43 TP3	EV 1000 105 F44 TP3
a [mm]	354	354
b [mm]	1050	1132
c [mm]	1501	1383
d [mm]	1591	1475
e [mm]	1830	1895
f [mm]	1937	2002
g [mm]	81	81
h [mm]	272	272
i [mm]	1174	1174
j [mm]	1273	1273
k [mm]	1592	1654
l [mm]	1780	1864
ØC [mm]	990	1050
ØD [mm]	790	850

CW - cold water inlet - G 1½" f
HW - hot water outlet - G 1½" f
R - recirculation - G ¾" f
TS - 1; 2; 3 - thermosensor - G ½" f
EE - opening for electrical element - G 1½" f
T - external thermometer - Ø14x1.5
TR - opening for thermoregulator - G ½" f
AV - opening for air ventilation - G ¾" f

Heat losses ΔT 45K	Maximum operational temperature	Rated pressure	Thermo pocket
5.1kWh/24h	95°C	8bar	3 pieces
5.3kWh/24h	95°C	8bar	3 pieces



MODEL	Art. number	Capacity	Net weight	Insulation (Soft PU)
EV 1500 120 F45 TP2	300792	1500L	338kg	100mm
EV 2000 130 F46 TP2	300690	2000L	388kg	100mm

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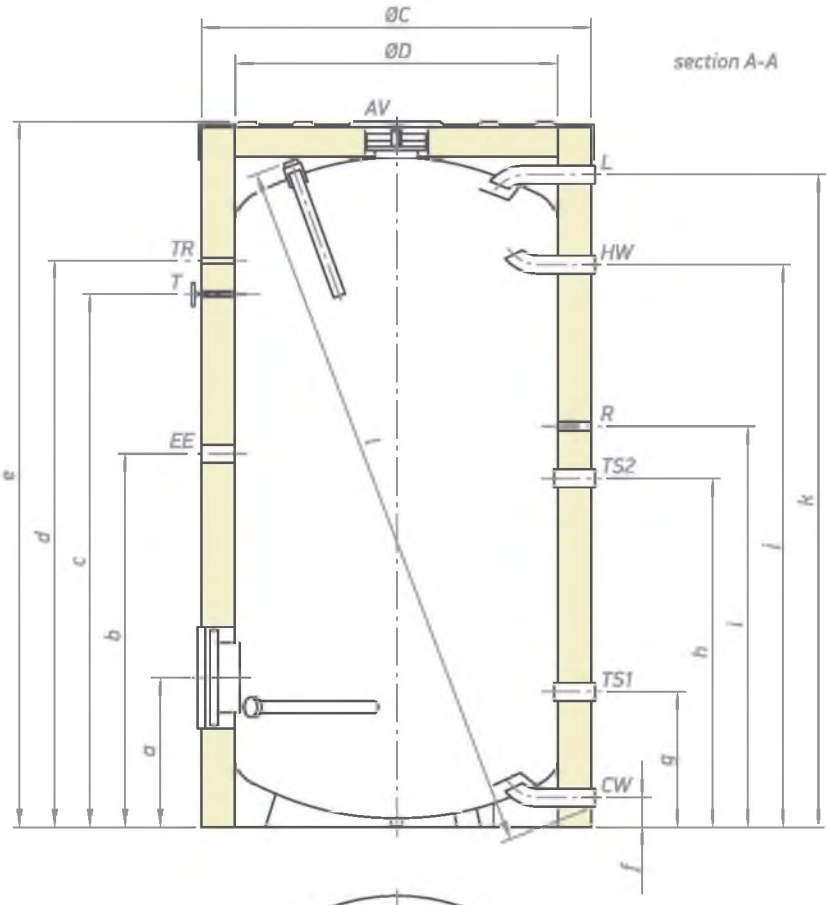
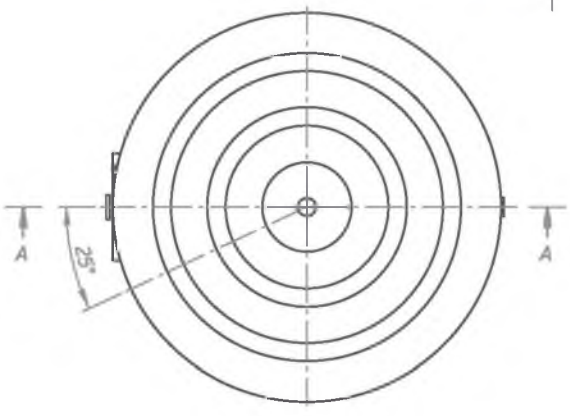




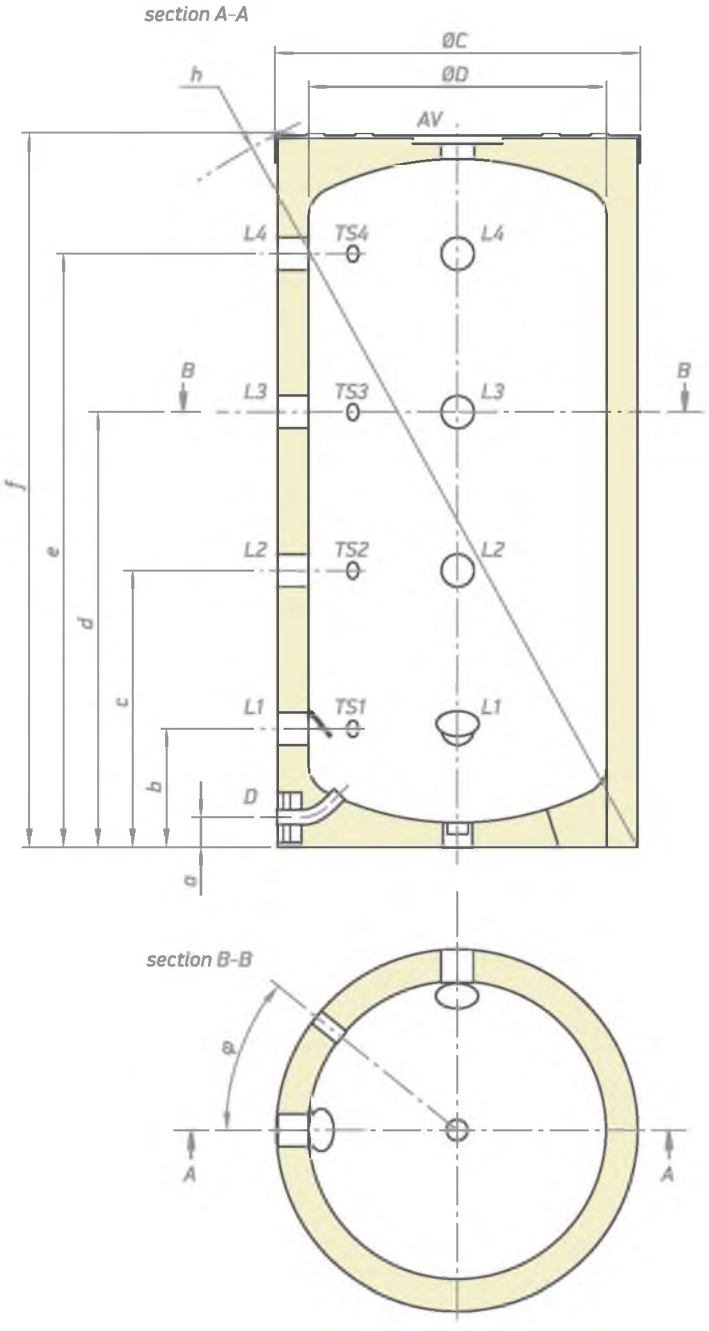
Dimensions [±5mm]	EV 1500 120 F45 TP2	EV 2000 130 F46 TP2
a [mm]	467	497
b [mm]	1167	1287
c [mm]	1665	1827
d [mm]	1767	1927
e [mm]	2193	2399
f [mm]	90	90
g [mm]	367	397
h [mm]	1080	1141
i [mm]	1250	1370
j [mm]	1750	1915
k [mm]	2061	2263
l [mm]	2214	2412
ØC [mm]	1200	1300
ØD [mm]	1000	1100

L - battery charging - G 2" m
CW - cold water inlet - G 2" m
HW - hot water outlet - G 2" m
R - recirculation - G 1½" f
TS - 1; 2 - thermosensor - G ½" f
EE - opening for electrical element - G 1½" f
T - external thermometer - Ø14x1.5
TR - opening for thermoregulator - G ½" f
AV - opening for air ventilation - G 2" f

Heat losses ΔT 45K	Maximum operational temperature	Rated pressure	Thermo pocket
6.5kWh/24h	95°C	8bar	2 pieces
8.3kWh/24h	95°C	8bar	2 pieces

MODEL	Art. number	Capacity	Net weight	Insulation (Rigid PU)	Heat losses ΔT 45K
V 200 60 F40 P4	300632	200L	40kg	50mm	2.0kWh/24h
V 300 65 F41 P4	300634	300L	59kg	50mm	2.5kWh/24h
V 400 75 F42 P4	300635	400L	113.5kg	50mm	2.8kWh/24h
V 500 75 F42 P4	300636	500L	121kg	50mm	3.1kWh/24h

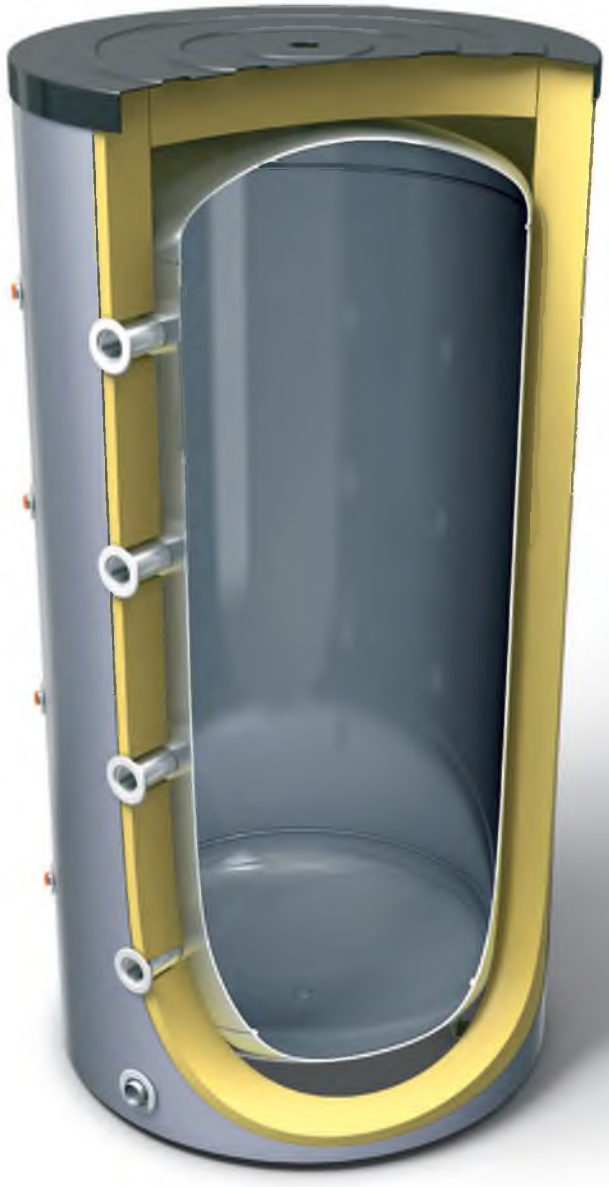
The design and the technical data specified in the catalogue are subject of change without notice.



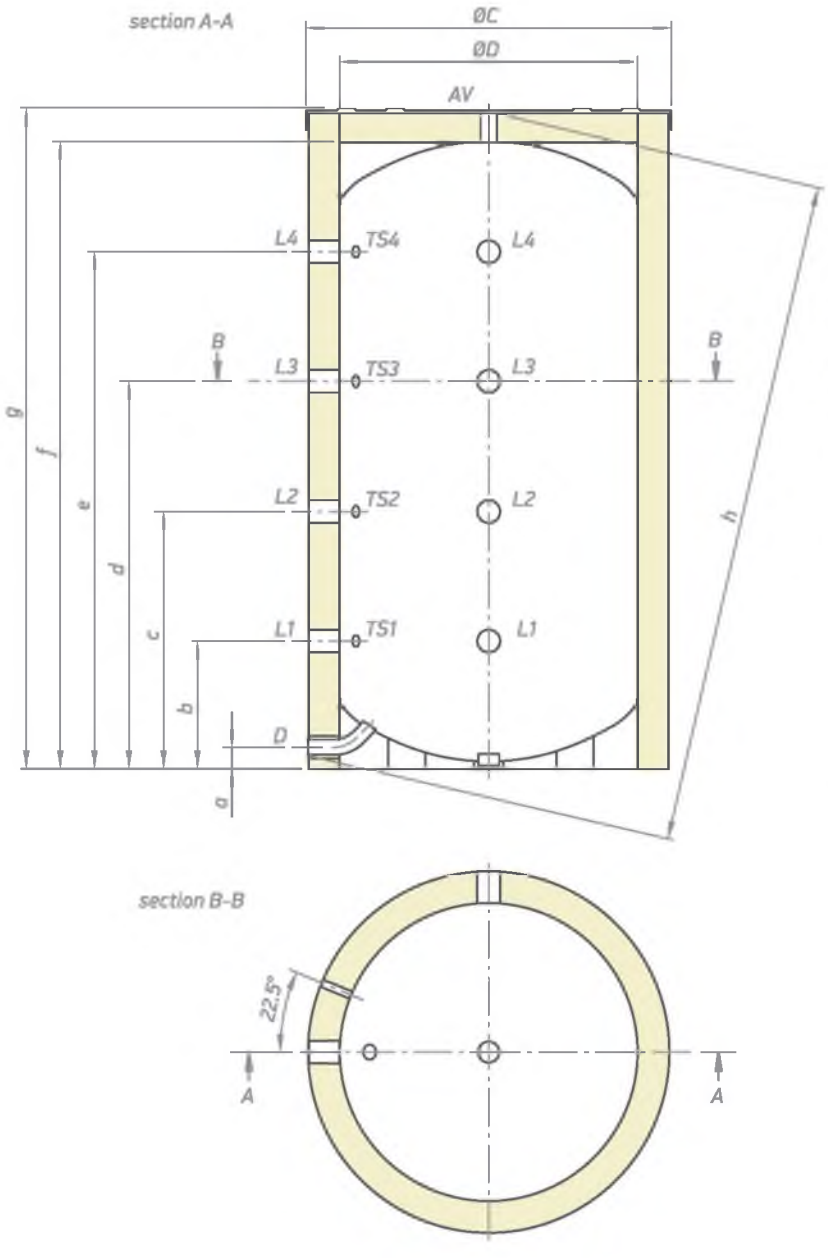
Dimensions [±5mm]	V 200 60 F40 P4	V 300 65 F41 P4	V 400 75 F42 P4	V 500 75 F42 P4
a [mm]	50	52	67	67
b [mm]	198	203	217	215
c [mm]	463	538	533	627
d [mm]	728	873	849	1039
e [mm]	993	1208	1165	1451
f [mm]	1200	1420	1410	1674
h [mm]	-	-	1590	1823
ØC [mm]	500	550	750	750
ØD [mm]	600	650	650	650
φ	45°	45°	22.5°	22.5°

L1; 2; 3; 4 - level 1; 2; 3; 4 - G 1½"
TS1; 2; 3; 4 - thermoprobe level 1; 2; 3; 4 - G ½"
AV - air vent - G 1½"
D - G ¾"

Number of inlets	Number of outlets	Maximum operational temperature	Rated pressure	Thermo pocket
4 pieces	5 pieces	95°C	3bar	4 pieces
4 pieces	5 pieces	95°C	3bar	4 pieces
3 pieces	4 pieces	95°C	3bar	4 pieces
3 pieces	4 pieces	95°C	3bar	4 pieces



MODEL	Art. number	Capacity	Net weight	Insulation (Soft PU)	Heat losses ΔT 45K
V 800 99 F43 P4	300638	800L	139.5kg	100mm	5.1kWh/24h
V 1000 105 F44 P4	300610	1000L	199kg	100mm	5.3kWh/24h
V 1500 120 F45 P4	300627	1500L	329kg	100mm	6.5kWh/24h
V 2000 130 F46 P4	300633	2000L	388kg	100mm	8.3kWh/24h



Dimensions [±5mm]	V 800 99 F43 P4	V 1000 105 F44 P4	V 1500 120 F45 TP4	V 2000 130 F46 TP4
a [mm]	82	80	40	40
b [mm]	360	348	427	446
c [mm]	740	758	860	929
d [mm]	1120	1168	1293	1412
e [mm]	1500	1578	1726	1896
f [mm]	1821	1895		
g [mm]	1937	2002	2216	2412
h [mm]	1962	2017	2270	2460
ØC [mm]	990	1050	1200	1300
ØD [mm]	790	850	1000	1100

Number of inlets	Number of outlets	Maximum operational temperature	Rated pressure	Thermo pocket
4 pieces	5 pieces	95°C	3bar	4 pieces
4 pieces	5 pieces	95°C	3bar	4 pieces
4 pieces	5 pieces	95°C	3bar	4 pieces
4 pieces	5 pieces	95°C	3bar	4 pieces

MODEL	Art. number	Capacity	Net weight	Insulation (Rigid PU)	Heat exchanger surface	Heat exchanger capacity	Heat losses ΔT 45K
V 11S 400 75 F42 P5	300612	400L	131kg	50mm	1.65m²	10L	2.8kWh/24h
V 15S 500 75 F42 P5	300624	500L	138kg	50mm	2.25m²	13.7L	3.1kWh/24h

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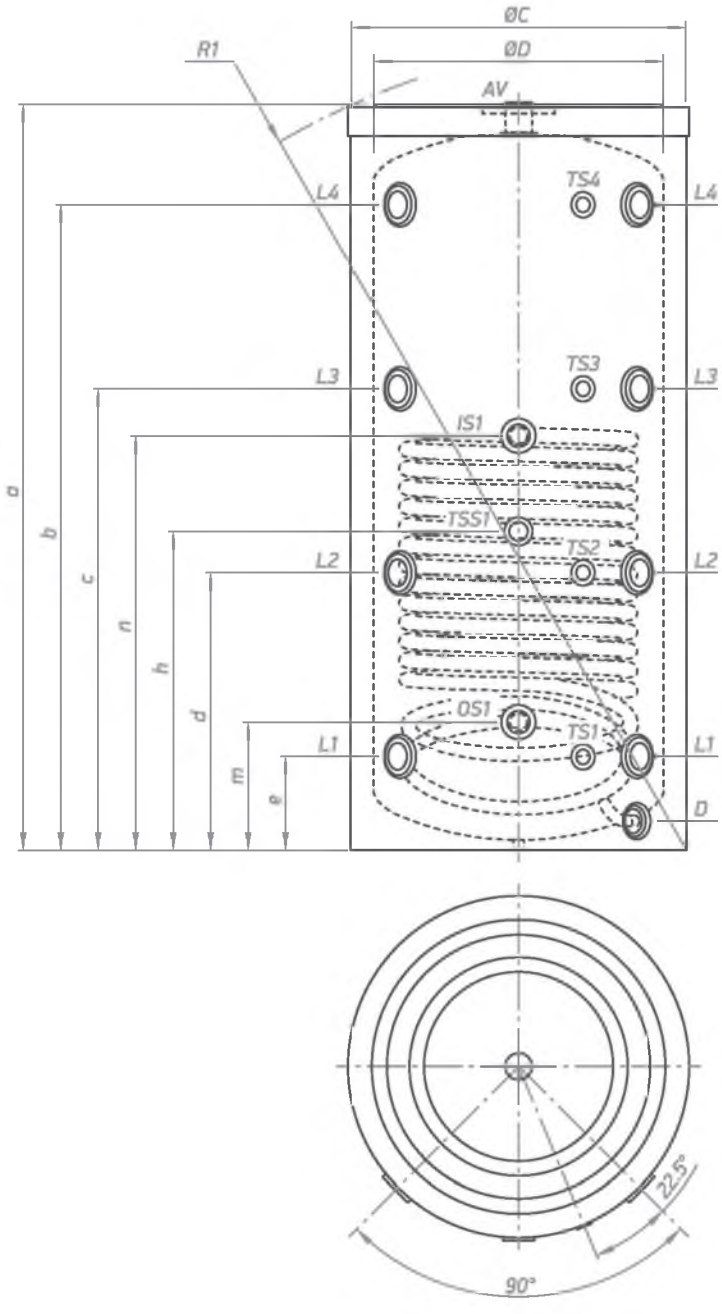
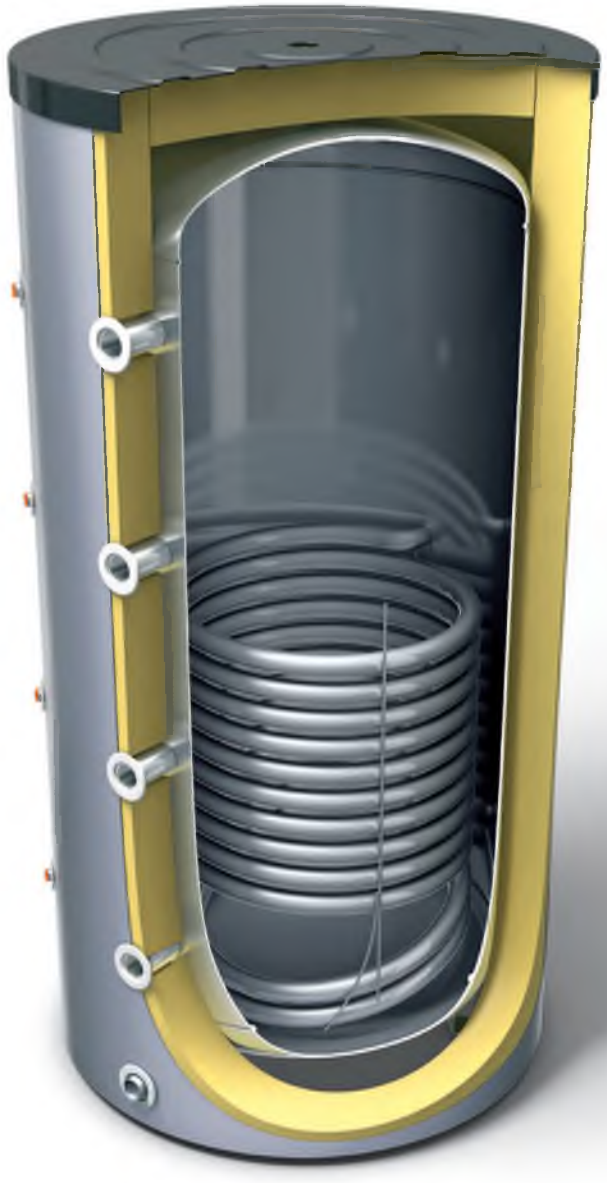


Dimensions [±5mm]	V 11S 400 75 F42 P5	V 15S 500 75 F42 P5
a [mm]	1409	1674
b [mm]	1165	1450
c [mm]	849	1038
d [mm]	533	626
e [mm]	217	214
h [mm]	464	719
m [mm]	307	289
n [mm]	780	934
D [mm]	67	67
ØC [mm]	750	750
ØD [mm]	650	650
R1 [mm]	1590	1825

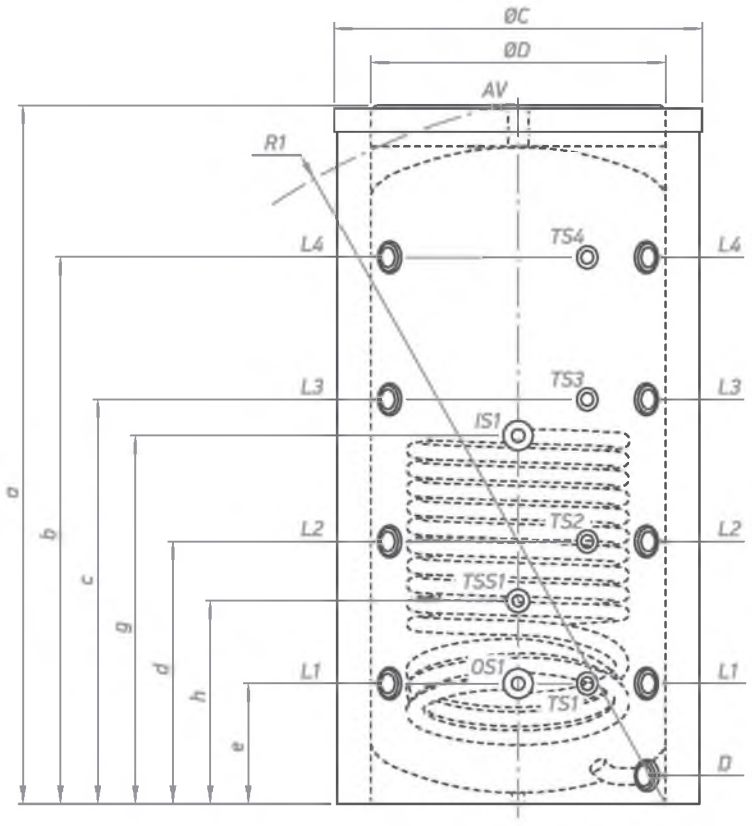
L1; 2; 3; 4 - level 1; 2; 3; 4 - G 1½"
TS1; 2; 3; 4 - thermoprobe level 1; 2; 3; 4 - G ½"
TSS1 - thermoprobe heat exchanger - G ½"
IS1 - inlet heat exchanger - G 1"
OS1 - outlet heat exchanger - G 1"
AV - air vent - G 1½"
D - G ¾"

Number of inlets	Number of outlets	Maximum operational temperature	Maximum operational temperature heat exchanger	Rated pressure	Rated pressure of the heat exchanger	Thermo pocket
4 pieces	5 pieces	95°C	110°C	3bar	6bar	5 pieces
4 pieces	5 pieces	95°C	110°C	3bar	6bar	5 pieces



MODEL	Art. number	Capacity	Net weight	Insulation (Soft PU)	Heat exchanger surface	Heat exchanger capacity	Heat losses ΔT 45K
V 12S 800 99 F43 P5	300616	800L	213kg	100mm	2.89m²	26.2L	5.1kWh/24h
V 13S 1000 105 F44 P5	300795	988L	224kg	100mm	3.45m²	31.3L	5.3kWh/24h
V 12S 1500 120 F45 P5	300614	1500L	371kg	100mm	3.47m²	31.4L	6.5kWh/24h
V 15S 2000 130 F46 P5	300623	1950L	442kg	100mm	4.5m²	41.6L	8.3kWh/24h

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

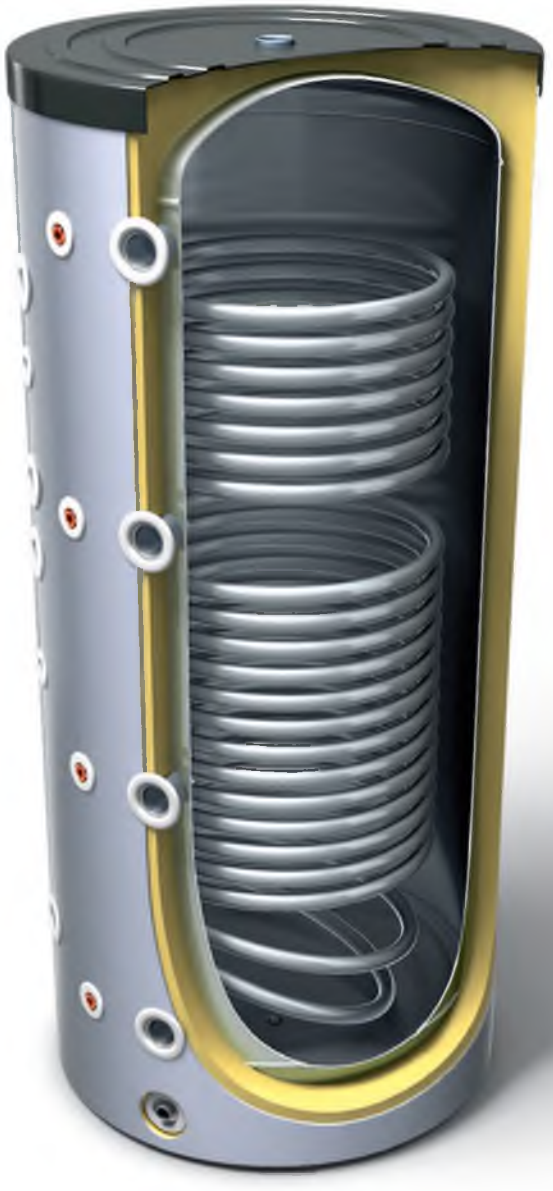


Dimensions [±5mm]	V 12S 800 99 F43 P5	V 13S 1000 105 F44 P5	V 12S 1500 120 F45 P5	V 15S 2000 130 F46 P5
a [mm]	1937	2002	2216	2412
b [mm]	1501	1577	1726	1896
c [mm]	1121	1167	1293	1412
d [mm]	741	757	860	929
e [mm]	361	347	427	446
g [mm]	1021	1062	1087	1271
h [mm]	581	585	647	646
D [mm]	82	79	40	40
ØC [mm]	990	1050	1200	1300
ØD [mm]	790	850	1000	1100
R1 [mm]	1959	2040	2270	2460

V 12S 800 99 F43 P5, V 13S 1000 105 F44 P5
L1; 2; 3; 4 - level 1; 2; 3; 4 - G 1½"
TS1; 2; 3; 4 - thermoprobe level 1; 2; 3; 4 - G ½"
TSS1 - thermoprobe heat exchanger - G ½"
IS1 - inlet heat exchanger - G 1½"
OS1 - outlet heat exchanger - G 1½"
AV - air vent - G 1½"
D - G 1½"

V 12S 1500 120 F45 P5, V 15S 2000 130 F46 P5
L1; 2; 3; 4 - level 1; 2; 3; 4 - G 2"
TS1; 2; 3; 4 - thermoprobe level 1; 2; 3; 4 - G ½"
TSS1 - thermoprobe heat exchanger - G ½"
IS1 - inlet heat exchanger - G 1½"
OS1 - outlet heat exchanger - G 1½"
AV - air vent - G 2"
D - G ¾"

Number of inlets	Number of outlets	Maximum operational temperature	Maximum operational temperature heat exchanger	Rated pressure	Rated pressure of the heat exchanger	Thermo pocket
4 pieces	5 pieces	95°C	110°C	3bar	6bar	5 pieces
4 pieces	5 pieces	95°C	110°C	3bar	6bar	5 pieces
4 pieces	5 pieces	95°C	110°C	3bar	6bar	5 pieces
4 pieces	5 pieces	95°C	110°C	3bar	6bar	5 pieces



MODEL	Art. number	Capacity	Net weight	Insulation (Rigid PU)	Heat exchanger surface S1	Heat exchanger surface S2	Heat exchanger capacity S1	Heat exchanger capacity S2	Heat losses ΔT 45K
V 11/5S2 400 75 F42 P6	300613	400L	140kg	50mm	1.65m²	0.76m²	10L	13.7L	2.8kWh/24h
V15/7S2 500 75 F42 P6	300625	500L	149.5kg	50mm	2.25m²	1.04m²	4.6L	6.4L	3.1kWh/24h

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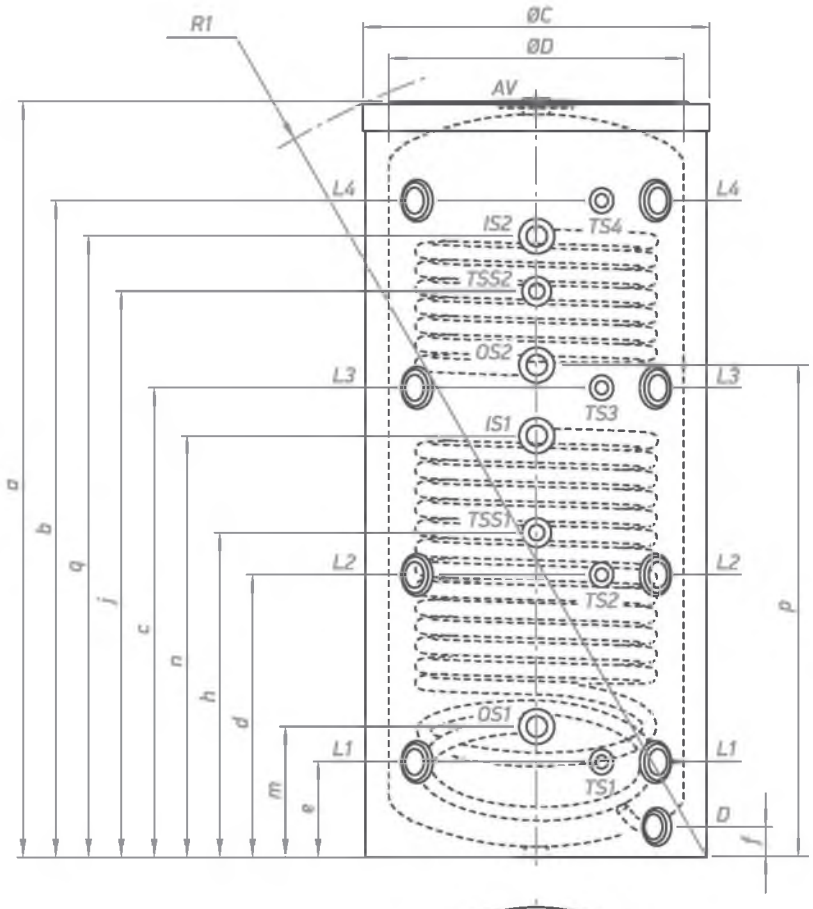
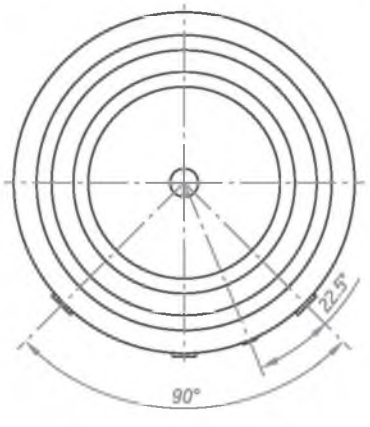
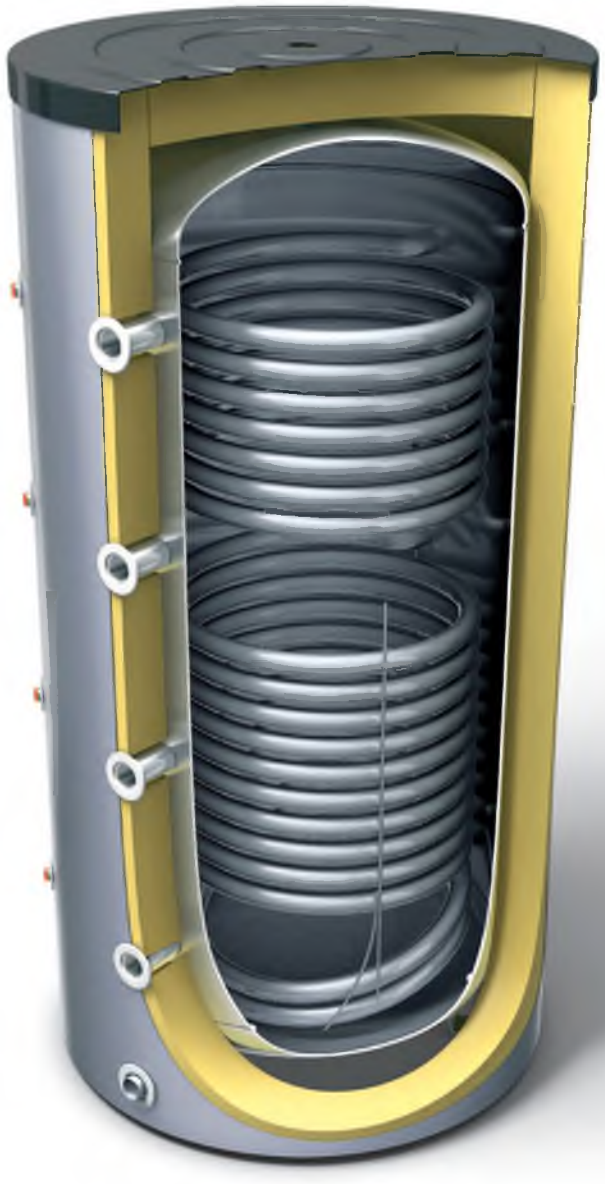




Dimensions [±5mm]	V 11/5S2 400 75 F42 P6	V15/7S2 500 75 F42 P6
a [mm]	1411	1674
b [mm]	1166	1450
c [mm]	850	1038
d [mm]	534	626
e [mm]	218	214
f [mm]	68	67
h [mm]	465	719
j [mm]	1002	1220
m [mm]	308	289
n [mm]	781	934
p [mm]	864	1048
q [mm]	1079	1349
ØC [mm]	750	750
ØD [mm]	650	650
R1 [mm]	1592	1826

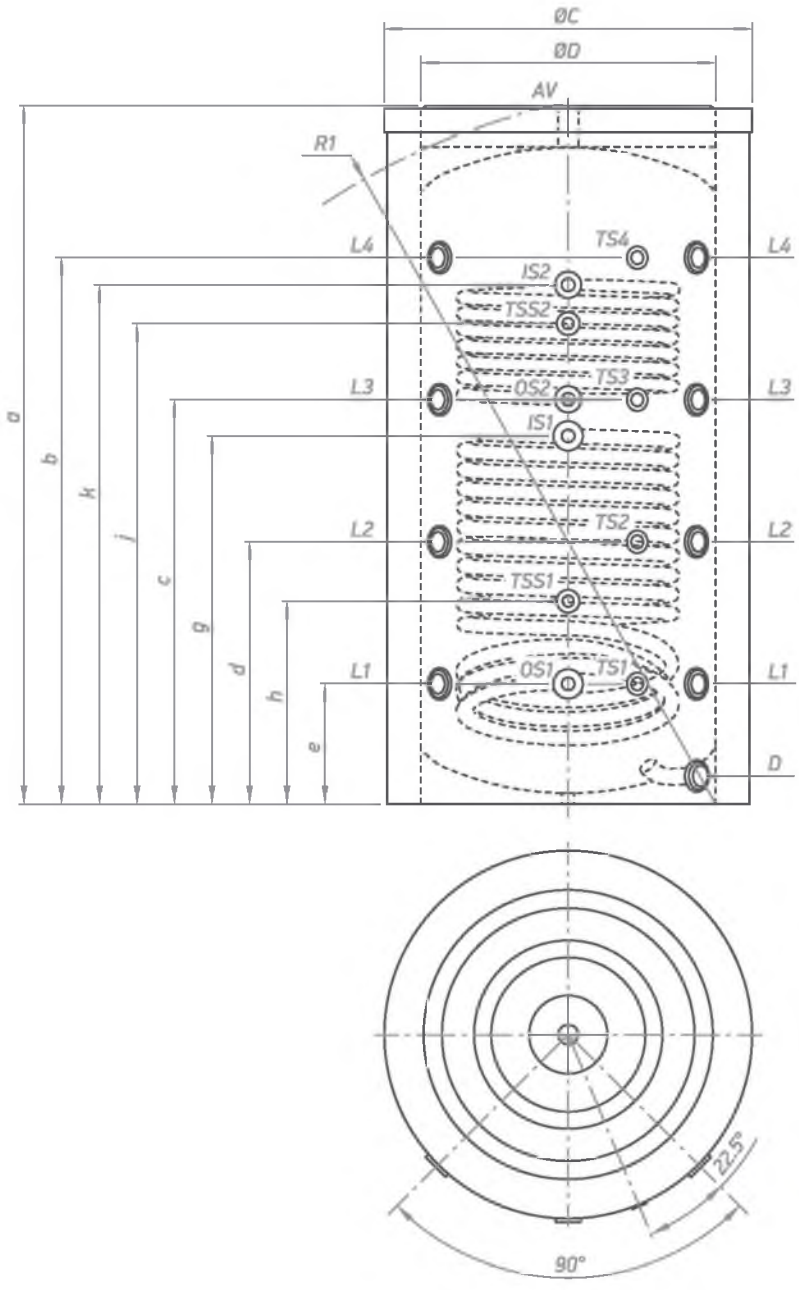
L1; 2; 3; 4 - level 1; 2; 3; 4 - G 1½"
TS1; 2; 3; 4 - thermoprobe level 1; 2; 3; 4 - G ½"
TSS1; 2 - thermoprobe heat exchanger 1; 2 - G ½"
IS1; 2 - inlet heat exchanger 1; 2 - G 1"
OS1; 2 - outlet heat exchanger 1; 2 - G 1"
AV - air vent - G 1½"
D - G ¾"

	Number of inlets	Number of outlets	Maximum operational temperature	Maximum operational temperature heat exchanger	Rated pressure	Rated pressure of the heat exchanger	Thermo pocket
	4 pieces	5 pieces	95°C	110°C	3bar	6bar	6 pieces
	4 pieces	5 pieces	95°C	110°C	3bar	6bar	6 pieces



MODEL	Art. number	Capacity	Net weight	Insulation (Soft PU)	Heat exchanger surface S1	Heat exchanger surface S2	Heat exchanger capacity S1	Heat exchanger capacity S2	Heat losses ΔT 45K
V 12/9S2 800 99 F43 P6	300618	800L	242kg	100mm	2.89m²	1.54m²	26.2L	9.4L	5.1kWh/24h
V 13/7S2 1000 105 F44 P6	300621	977L	268kg	100mm	3.45m²	1.31m²	31.3L	7.9L	5.3kWh/24h
V 12/8S2 1500 120 F45 P6	300814	1500L	408kg	100mm	3.47m²	2.3m²	31.4L	20.5L	6.5kWh/24h
V 15/9S2 2000 130 F46 P6	300626	1928L	486kg	100mm	4.5m²	2.7m²	41.6L	25.2L	8.3kWh/24h

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

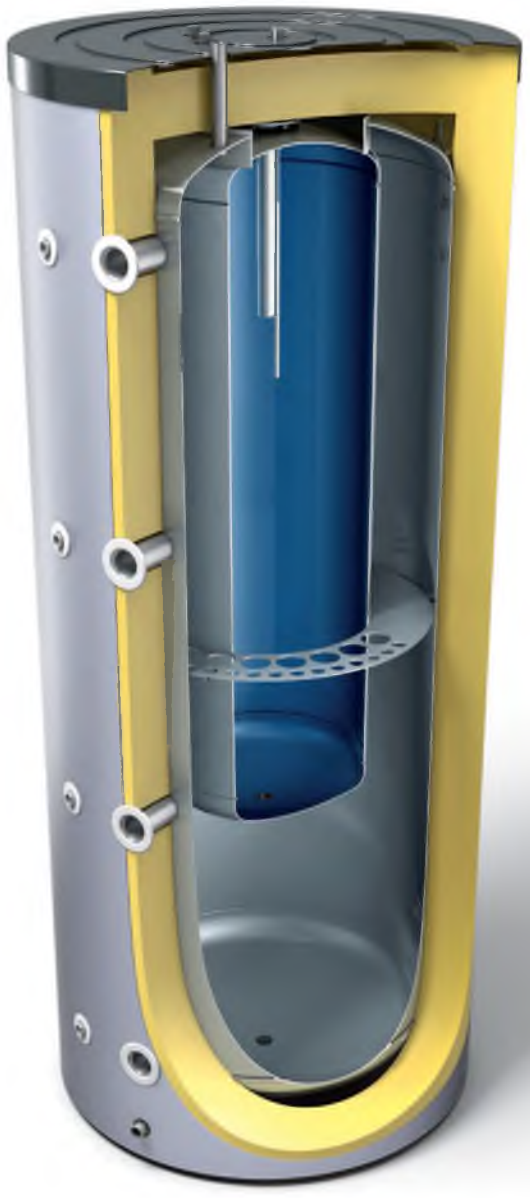


Dimensions [±5mm]	V 12/9S2 800 99 F43 P6	V 13/7S2 1000 105 F44 P6	V 12/8S2 1500 120 F45 P6	V 15/9S2 2000 130 F46 P6
a [mm]	1937	2002	2216	2412
b [mm]	1501	1577	1726	1896
c [mm]	1121	1167	1293	1410
d [mm]	741	757	860	929
e [mm]	361	347	427	446
g [mm]	1021	1062	1087	1271
h [mm]	581	585	647	646
j [mm]	1388	1368	1461	1565
k [mm]	1508	1468	1733	1903
D [mm]	82	79	40	40
ØC [mm]	990	1050	1200	1300
ØD [mm]	790	850	1000	1100
R1 [mm]	1959	2040	2270	2460

V 12/9S2 800 99 F43 P6, V 13/7S2 1000 105 F44 P6
L1; 2; 3; 4 - level 1; 2; 3; 4 - G 1½"
TS1; 2; 3; 4 - thermoprobe level 1; 2; 3; 4 - G ½"
TSS1; 2 - thermoprobe heat exchanger 1; 2 - G ½"
IS1 - inlet heat exchanger 1 - G 1½"
IS2 - inlet heat exchanger 2 - G 1"
OS1 - outlet heat exchanger 1 - G 1½"
OS2 - outlet heat exchanger 2 - G 1"
AV - air vent - G 1½"
D - G 1½"

V 12/8S2 1500 120 F45 P6, V 15/9S2 2000 130 F46 P6
L1; 2; 3; 4 - level 1; 2; 3; 4 - G 2"
TS1; 2; 3; 4 - thermoprobe level 1; 2; 3; 4 - G ½"
TSS1; 2 - thermoprobe heat exchanger 1; 2 - G ½"
IS1; 2 - inlet heat exchanger 1; 2 - G 1½"
OS1; 2 - outlet heat exchanger 1; 2 - G 1½"
AV - air vent - G 2"
D - G ¾"

Number of inlets	Number of outlets	Maximum operational temperature	Maximum operational temperature heat exchanger	Rated pressure	Rated pressure of the heat exchanger	Thermo pocket
4 pieces	5 pieces	95°C	110°C	3bar	6bar	6 pieces
4 pieces	5 pieces	95°C	110°C	3bar	6bar	6 pieces
4 pieces	5 pieces	95°C	110°C	3bar	6bar	6 pieces
4 pieces	5 pieces	95°C	110°C	3bar	6bar	6 pieces



MODEL	Art. number	Actual capacity buffer tank	Actual capacity hot water tank	Net weight	Insulation (Soft PU)
V 600 85 - EV 150 40	300637	461L	142L	139kg	100mm
V 800 99 - EV 200 45	300639	616L	184L	198kg	100mm
V 1000 99 - EV 200 45	300611	750L	184L	211kg	100mm
V 1500 120 - EV 300 55	300628	1184L	302L	293kg	100mm

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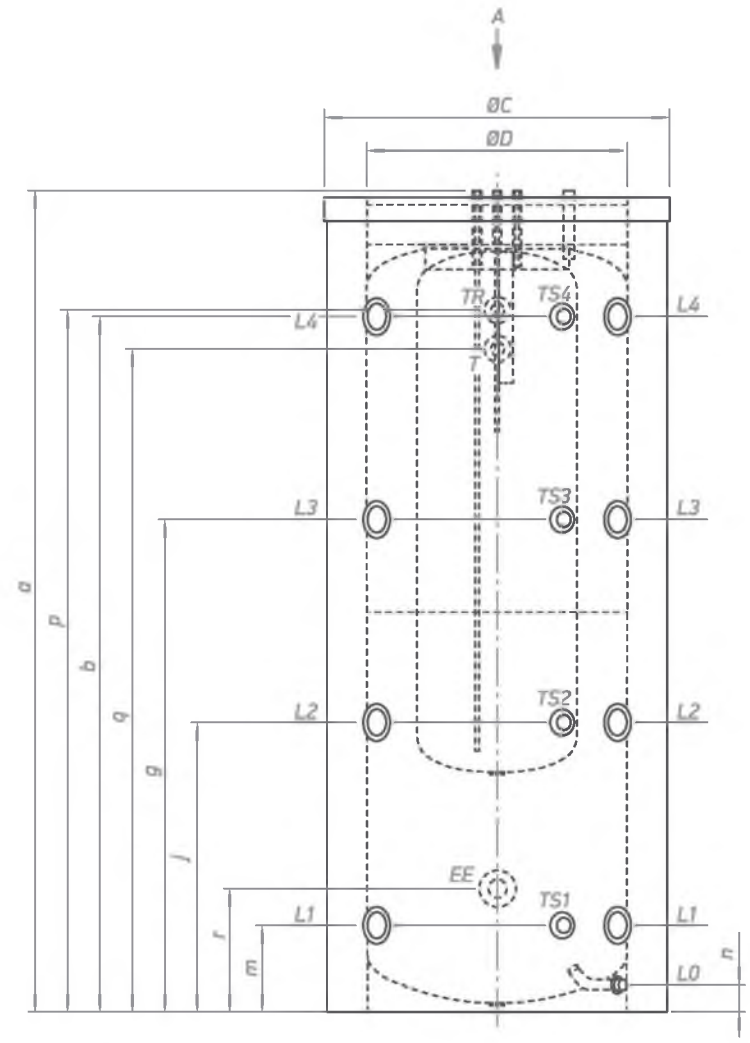
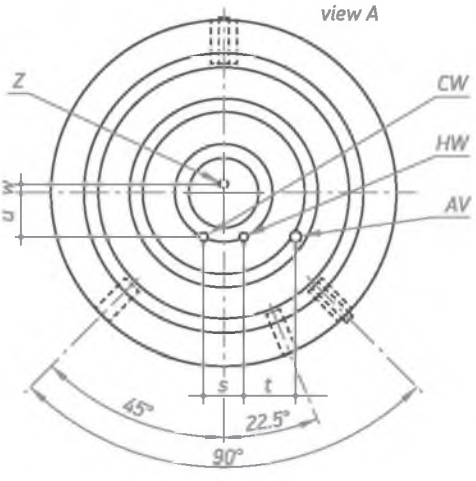
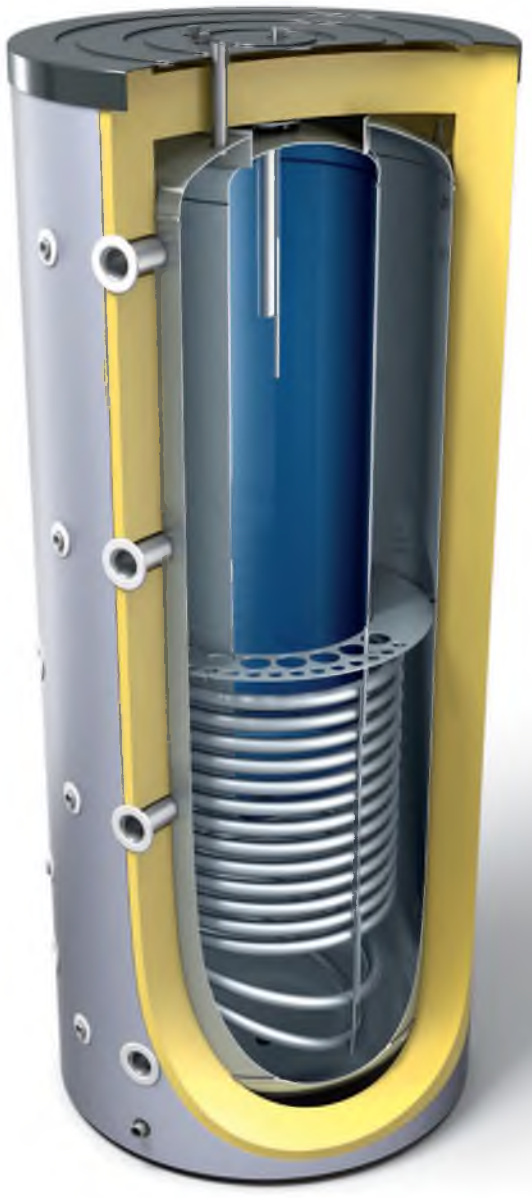




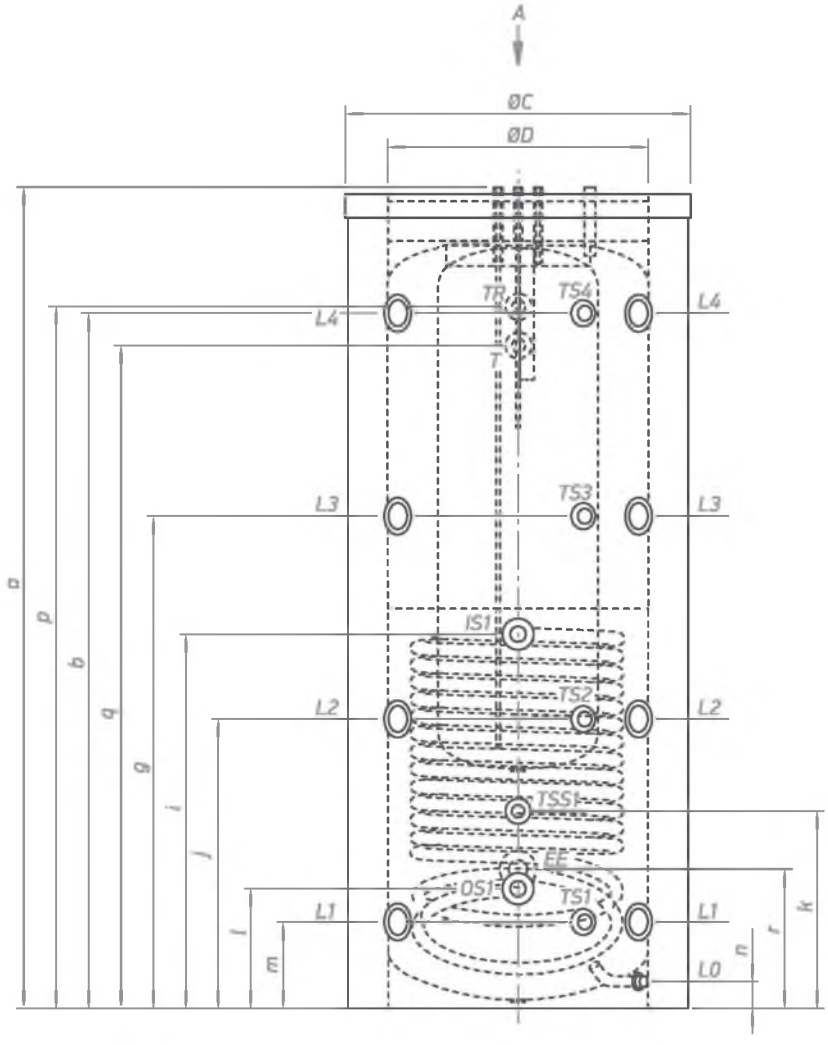
Dimensions [±5mm]	V 600 85 - EV 150 40	V 800 99 - EV 200 45	V 1000 99 - EV 200 45	V 1500 120 - EV 300 55
a [mm]	2065	1956	2141	2216
b [mm]	1738	1502	1775	1726
g [mm]	1230	1122	1304	1293
j [mm]	722	742	833	860
m [mm]	214	362	362	427
n [mm]	67	81	81	40
p [mm]	1747	1600	1795	1740
q [mm]	1657	1500	1695	1640
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
ØC [mm]	850	990	990	1200
ØD [mm]	650	790	790	1000

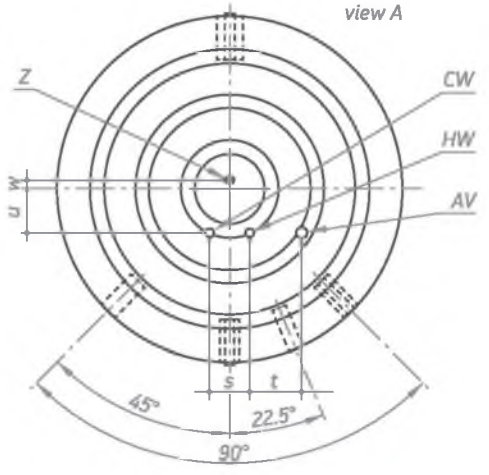
CW - inlet cold water	CW	G ½"m	G 1"m	G 1"m	G 1"m
HW - outlet hot water	HW	G ½"m	G 1"m	G 1"m	G 1"m
AV - air vent	AV	G ½"f	G ½"f	G ½"f	G ½"f
Z - recirculation	Z	G ½"m	G ½"m	G ½"m	G ½"m
T - thermometer	T	Ø14x1.5	Ø14x1.5	Ø14x1.5	Ø14x1.5
TR - thermoregulator	TR	G ½"f	G ½"f	G ½"f	G ½"f
EE - electric heating element	EE	G 1½"f	G 1½"f	G 1½"f	G 2"f
L1; 2; 3; 4 - level 1; 2; 3; 4	L1; 2; 3; 4	G 1½"f	G 1½"f	G 1½"f	G 2"m
L0 - level 0	L0	G ¾"m	G 1½"m	G 1½"m	G ¾"m
TS1; 2; 3; 4 - temp. sensor level 1; 2; 3; 4	TS1; 2; 3; 4	G ½"f	G ½"f	G ½"f	G ½"f

Heat losses ΔT 45K	Maximum operational temperature buffer tank	Maximum operational temperature hot water tank	Nominal pressure of buffer tank	Maximum pressure of hot water tank
4.8kWh/24h	95°C	95°C	0.3MPa	1MPa
5.1kWh/24h	95°C	95°C	0.3MPa	1MPa
5.5kWh/24h	95°C	95°C	0.3MPa	1MPa
6.5kWh/24h	95°C	95°C	0.3MPa	1MPa



MODEL	Art. number	Actual capacity buffer tank	Actual capacity hot water tank	Net weight	Insulation (Soft PU)	Heat exchanger surface	Heat exchanger content
V 15 S 600 85 - EV 150 40	300631	447L	142L	167kg	100mm	2.25m²	13.7L
V 12 S 800 99 - EV 200 45	300617	590L	184L	241kg	100mm	2.89m²	26.2L
V 15 S 1000 99 - EV 200 45	300622	702L	184L	296kg	100mm	3.3m²	29L
V 12 S 1500 120 - EV 300 55	300615	1153L	302L	348kg	100mm	3.47m²	31.4L

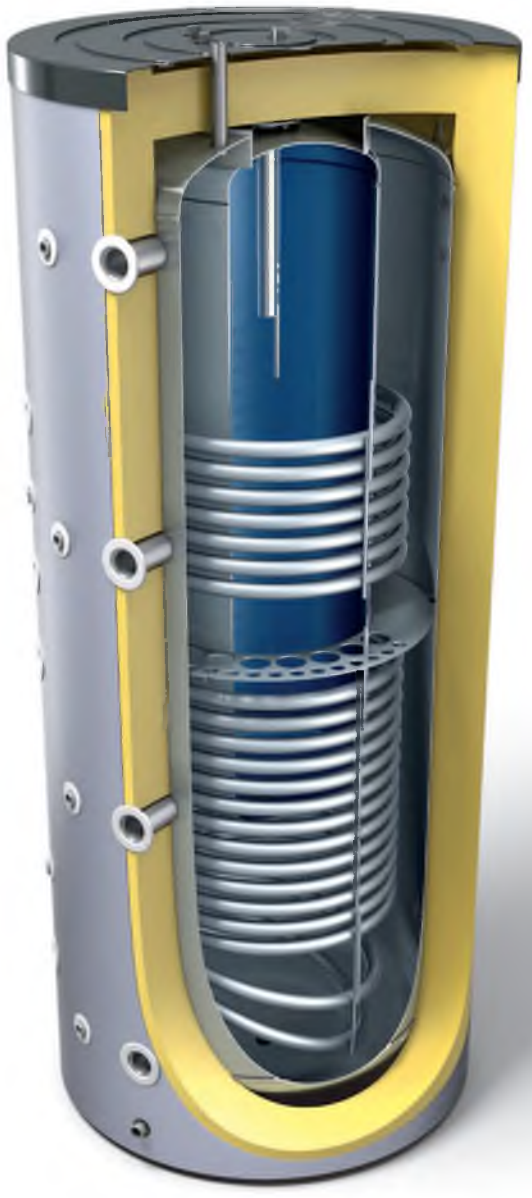




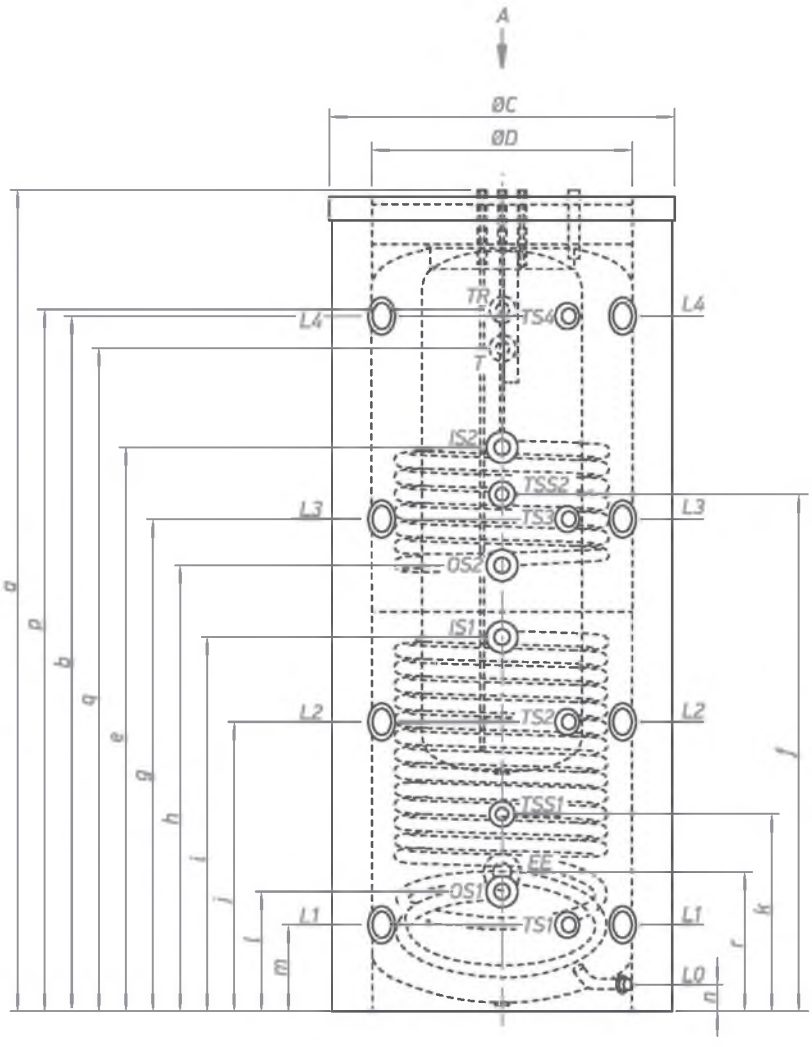
CW - inlet cold water
HW - outlet hot water
AV - air vent
Z - recirculation
T - thermometer
TR - thermoregulator
EE - electric heating element
L1; 2; 3; 4 - level 1; 2; 3; 4
L0 - level 0
TS1; 2; 3; 4 - temp. sensor level 1; 2; 3; 4
TSS1 - temp. sensor coil HE1; 2
IS1 - inlet coil HE1
OS1 - outlet coil HE1

Dimensions [±5mm]	V 15 S 600 85 - EV 150 40	V 12 S 800 99 - EV 200 45	V 15 S 1000 99 - EV 200 45	V 12 S 1500 120 - EV 300 55
a [mm]	2065	1956	2141	2216
b [mm]	1738	1502	1775	1726
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]	214	362	362	427
n [mm]	67	81	81	40
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
CW	G ½"m	G 1"m	G 1"m	G 1"m
HW	G ½"m	G 1"m	G 1"m	G 1"m
AV	G ½"f	G ½"f	G ½"f	G ½"f
Z	G ½"m	G ½"m	G ½"m	G ½"m
T	Ø14x1.5	Ø14x1.5	Ø14x1.5	Ø14x1.5
TR	G ½"f	G ½"f	G ½"f	G ½"f
EE	G 1½"f	G 1½"f	G 1½"f	G 2"f
L1; 2; 3; 4	G 1½"f	G 1½"f	G 1½"f	G 2"m
L0	G ¾"m	G 1½"m	G 1½"m	G ¾"m
TS1; 2; 3; 4	G ½"f	G ½"f	G ½"f	G ½"f
TSS1	G ½"f	G ½"f	G ½"f	G ½"f
IS1	G 1"f	G 1"f	G 1"f	G 1½"m
OS1	G 1"f	G 1"f	G 1"f	G 1½"m

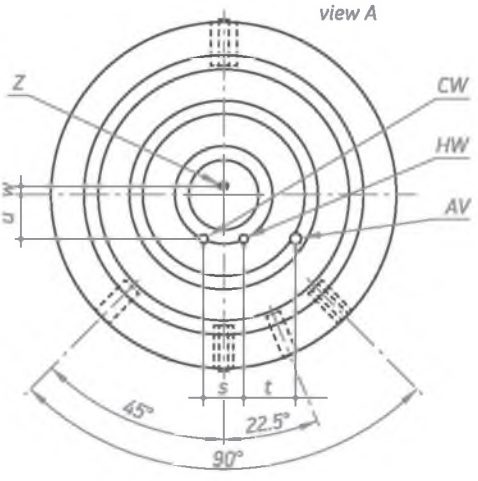
Heat losses ΔT 45K	Maximum operational temperature buffer tank	Maximum operational temperature hot water tank	Maximum working temperature coil heat exchanger	Nominal pressure of buffer tank	Maximum pressure of hot water tank	Maximum pressure of coil heat exchanger
4.8kWh/24h	95°C	95°C	110°C	0.3MPa	1MPa	0.6MPa
5.1kWh/24h	95°C	95°C	110°C	0.3MPa	1MPa	0.6MPa
5.5kWh/24h	95°C	95°C	110°C	0.3MPa	1MPa	0.6MPa
6.5kWh/24h	95°C	95°C	110°C	0.3MPa	1MPa	0.6MPa



MODEL	Art. number	Actual capacity buffer tank	Actual capacity hot water tank	Net weight	Insulation (Soft PU)	Heat exchanger surface S1	Heat exchanger surface S2	Heat exchanger content S1	Heat exchanger content S2
V 15/7S2 600 85-EV 150 40	300629	440L	142L	180kg	100mm	2.25m²	1.04m²	13.7L	6.4L
V 12/9S2 800 99-EV 200 45	300620	578L	184L	264kg	100mm	2.89m²	1.54m²	26.2L	9.4L
V 15/9S2 1000 99-EV 200 45	300630	693L	184L	315kg	100mm	3.3m²	1.54m²	29L	9.4L
V 12/8S2 1500 120-EV 300 55	300619	1128L	302L	387kg	100mm	3.47m²	2.3m²	31.4L	20.5L

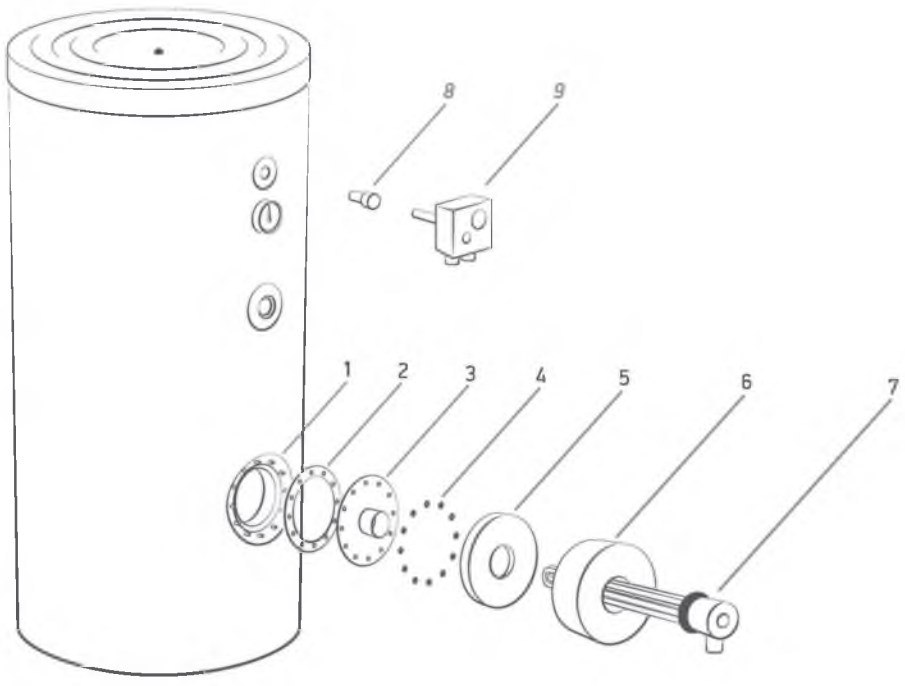


Dimensions [±5mm]	V 15/7S2 600 85-EV 150 40	V 12/9S2 800 99-EV 200 45	V 15/9S2 1000 99-EV 200 45	V 12/8S2 1500 120-EV 300 55
a [mm]	2065	1956	2141	2216
b [mm]	1738	1502	1775	1726
e [mm]	1408	1509	1747	1733
f [mm]	1257	1387	1502	1461
g [mm]	1230	1122	1304	1293
h [mm]	1107	1122	1360	1293
i [mm]	934	1022	1187	1087
j [mm]	722	742	833	860
k [mm]	489	582	582	647
l [mm]	289	362	362	427
m [mm]	214	362	362	427
n [mm]	67	81	81	40
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
ØC [mm]	850	990	990	1200
ØD [mm]	650	790	790	1000
CW	G ½"m	G 1"m	G 1"m	G 1"m
HW	G ½"m	G 1"m	G 1"m	G 1"m
AV	G ½"f	G ½"f	G ½"f	G ½"f
Z	G ½"m	G ½"m	G ½"m	G ½"m
T	Ø14x1.5	Ø14x1.5	Ø14x1.5	Ø14x1.5
TR	G ½"f	G ½"f	G ½"f	G ½"f
EE	G 1½"f	G 1½"f	G 1½"f	G 2"f
L1; 2; 3; 4	G 1½"f	G 1½"f	G 1½"f	G 2"m
L0	G ¾"m	G 1½"m	G 1½"m	G ¾"m
TS1; 2; 3; 4	G ½"f	G ½"f	G ½"f	G ½"f
TSS1; 2	G ½"f	G ½"f	G ½"f	G ½"f
IS1	G 1"f	G 1½"f	G 1½"f	G 1½"m
IS2	G 1"f	G 1"f	G 1"f	G 1½"m
OS1	G 1"f	G 1½"f	G 1½"f	G 1½"m
OS2	G 1"f	G 1"f	G 1"f	G 1½"m



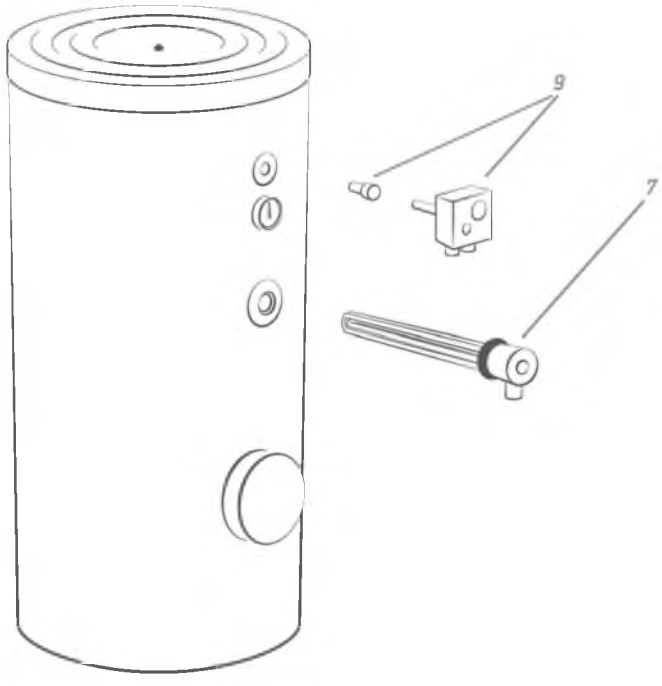
CW - inlet cold water
HW - outlet hot water
AV - air vent
Z - recirculation
T - thermometer
TR - thermoregulator
EE - electric heating element
L1; 2; 3; 4 - level 1; 2; 3; 4
L0 - level 0
TS1; 2; 3; 4 - temp. sensor level 1; 2; 3; 4
TSS1; 2 - temp. sensor coil HE1; 2
IS1 - inlet coil HE1
IS2 - inlet coil HE2
OS1 - outlet coil HE1
OS2 - outlet coil HE2

Heat losses ΔT 45K	Maximum operational temperature buffer tank	Maximum operational temperature hot water tank	Maximum working temperature coil heat exchanger	Nominal pressure of buffer tank	Maximum pressure of hot water tank	Maximum pressure of coil heat exchanger
4.8kWh/24h	95°C	95°C	110°C	0.3MPa	1MPa	0.6MPa
5.1kWh/24h	95°C	95°C	110°C	0.3MPa	1MPa	0.6MPa
5.5kWh/24h	95°C	95°C	110°C	0.3MPa	1MPa	0.6MPa
6.5kWh/24h	95°C	95°C	110°C	0.3MPa	1MPa	0.6MPa

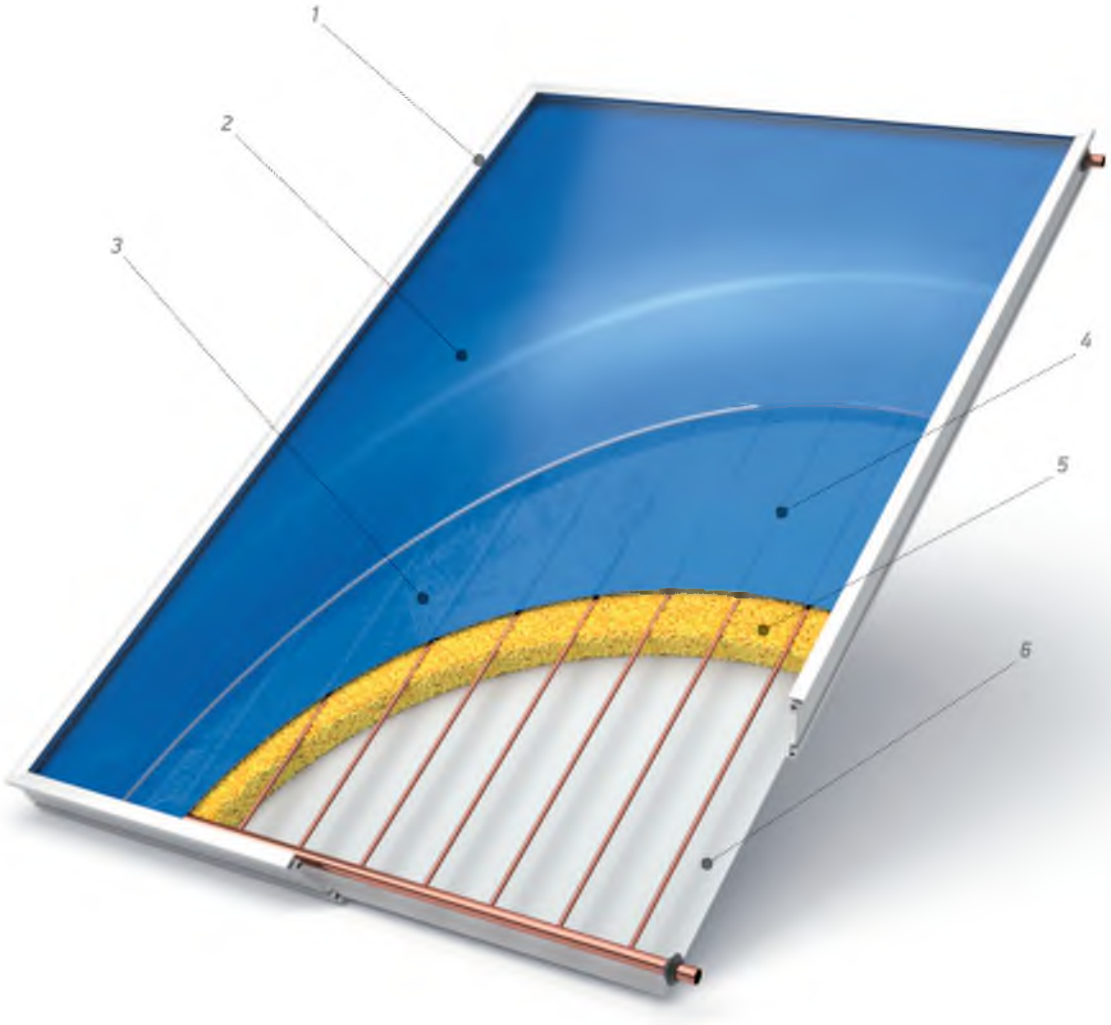


a.

b.



NAME	Art. number	Description	Dimensions of packing
ELECTRICAL HEAT RESISTANCE 3kW (from 200L up to 500L)	300570	HE 3000W / 400V 3~, L=240mm, 420693240	325 / 100 / 75mm
ELECTRICAL HEAT RESISTANCE 4.5kW (from 200L up to 500L)	300571	HE 4500W / 400V 3~, L=340 mm, 420693260	425 / 100 / 75mm
ELECTRICAL HEAT RESISTANCE 6kW (from 200L up to 500L)	300572	HE 6000W / 230V, L=440 mm, 420693280	525 / 100 / 75mm
WATER HEATER SET 3kW (from 200L up to 500L) a. b.	300557	Package includes: pos. 2 Ruber gasket; pos. 3 Flange; pos. 4 Niple-muf; pos. 7 HE 3000W / 230V, with thermostat + thermal cut out 70±5°C / 80±5°C with plug (MB 3000 ORW1B / 230V).	186 / 346 / 81mm
WATER HEATER SET 4.5kW (from 200L up to 500L) a. b.	300559	Package includes: pos. 2 Ruber gasket; pos. 3 Flange; pos. 7 HE 4500W / 400V 3~, L=340mm, 420693260; pos. 9 Thermostat + thermal cut out with thermo pocket (200L up to 500L).	186 / 536 / 111mm
WATER HEATER SET 6kW (from 200L up to 500L) a. b.	300561	Package includes: pos. 2 Ruber gasket; pos. 3 Flange; pos. 7 HE 6000W / 230V, L=440mm, 420693280; pos. 9 Thermostat + thermal cut out with thermo pocket (200L up to 500L).	186 / 536 / 111mm
ELECTRICAL HEAT RESISTANCE 12kW (800L to 2000L) - 2" a.		Package includes: pos. 2 Ruber gasket; pos. 3 Flange; pos. 7 HE 12000W / 400V, L=520mm; pos. 9 Thermostat + thermal cut out with thermo pocket (800L up to 2000L).	

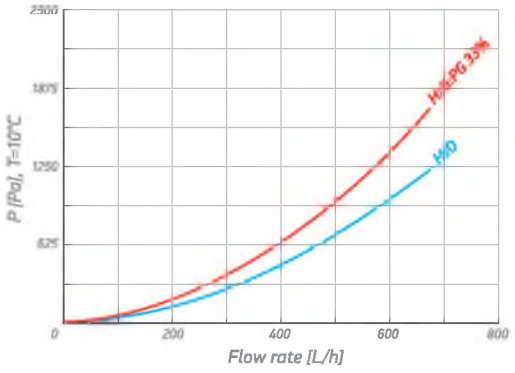


1. *Frame - Aluminium*
2. *Cover glass - 4mm low ferrous content, toughened glass*
3. *Absorber - Aluminium full plate with selective coating*
4. *Welding type - Laser welded*
5. *Collector type insulation - Glasswool*
6. *Bottom - 0.8mm Zinc-coated steel sheet*

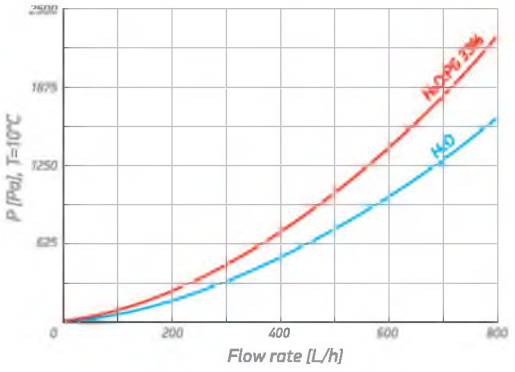
MODEL	Art. number	Gross area	Absorber area	Weight empty	Absorption factor	Emission factor	Max operating pressure	Test pressure
SP 07 200 ASL	420116	2.0m²	1.85m²	43kg	95%	5%	10bar	15bar
SP 07 250 ASL	420117	2.5m²	2.319m²	53kg	95%	5%	10bar	15bar

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

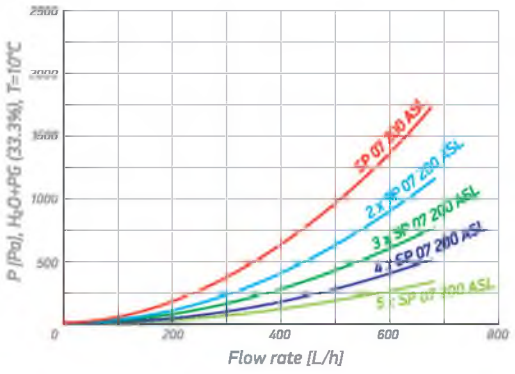
Pressure drop for solar panel SP 07 200 ASL



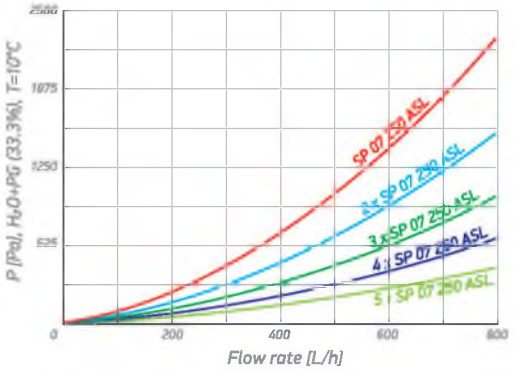
Pressure drop for solar panel SP 07 250 ASL

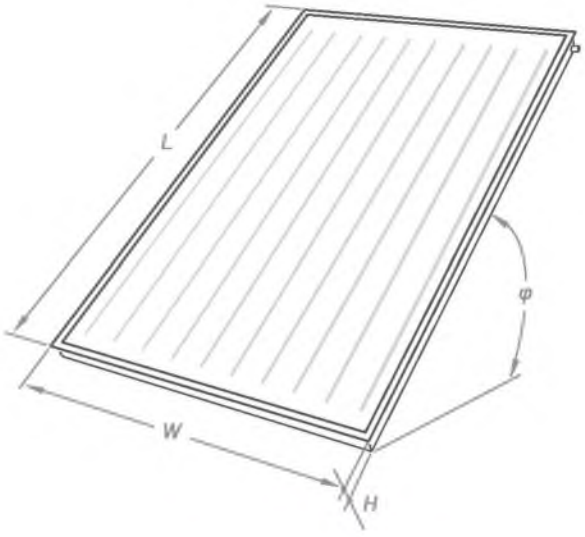


Pressure drop for solar arrays SP 07 200 ASL



Pressure drop for solar arrays SP 07 250 ASL





SP 07 200 ASL

L [mm]	*1749*
W [mm]	*1148*
H [mm]	*80*
φ [°]	*25-55*

SP 07 250 ASL

L [mm]	*2178*
W [mm]	*1148*
H [mm]	*80*
φ [°]	*25-55*

Max operating temperature	Heat transfer fluid	Liquid content	Pipe fitting types	Collector efficiency	Heat losses coefficient a1	Heat losses coefficient a2
200°C	PG:H_2O (30:70)	1.8L	Ø22mm	76.7%	4.32W/m²K	0.0077W/m²K²
200°C	PG:H_2O (30:70)	2.1L	Ø22mm	77.5%	4.33W/m²K	0.0057W/m²K²

TS 01 160

Cover glass - low iron, tempered, sandy patterned, solar glass

Thermosyphone system

Tank

MODEL	Tank type	Tank volume	Expansion vessel volume	Heating fluid volume	Tank dimensions with insulation and pipes	Transfer fluid	Material of tank interior	Material of tank casing
TS 01 160	double jacket	160L	15L	7.5L	Ø600 x 1142mm	Solar fluid (Fernox Solar S1)	glass enamel	Steel
TS 01 300	double jacket	300L	18L	7.5L	Ø600 x 1850mm	Solar fluid (Fernox Solar S1)	glass enamel	Steel

Solar panel

MODEL	Solar panels	Gross surface area	Aperture area	Net weight	Absorber	Absorber coating	Absorbtion	Emission	Max operating pressure	Test pressure	Max operating temperature
TS 01 160	1 piece	2.5m²	2.319m²	53kg	Al laser welded	High selective	95%	5%	10bar	15bar	200°C
TS 01 300	2 pieces	2m²	1.85m²	43kg	Al laser welded	High selective	95%	5%	10bar	15bar	200°C

TS 01 300

Cover glass - low iron, tempered, sandy patterned, solar glass

Tank test pressure	Tank working pressure	Heating circuit testing pressure	Heating circuit working pressure	Tank insulation	Heating element	Dimensions of installed system H	L	W
12bar	8bar	4.5bar	3bar	38mm CFC free PU	2kW with thermostat	1845mm	2112mm	635mm
12bar	8bar	4.5bar	3bar	38mm CFC free PU	2kW with thermostat	1845mm	2113mm	1496mm

Heat transfer fluid	Fluid content	Pipe fitting types	Collector aperture efficiency	Heat losses coefficient a1	Heat losses coefficient a2	Frame	Bottom	Glass thickness	Collector heat insulation
Solar fluid (Fernox Solar S1)	1.9L	Ø18mm	77.5%	4.33W/m²K	0.0057W/m²K²	Aluminium	0.8mm galvanized steel	4mm	40mm Glasswool
Solar fluid (Fernox Solar S1)	1.6L	Ø18mm	76.7%	4.32W/m²K	0.0077W/m²K²	Aluminium	0.8mm galvanized steel	4mm	40mm Glasswool

EXPANSION VESSEL - In conformity with Directive Pressure equipment 97/23EC (PED), module H1

NAME	Art. number	Capacity	Height	Diameter	Connection	Max working pressure	Max working temperature
S 12L	421170	12L	350mm	270mm	¾"	10bar	130°C
S 24L	421171	24L	460mm	270mm	¾"	10bar	130°C
S 35L	421181	35L	560mm	350mm	¾"	10bar	130°C

SOLAR CONTROLLER - Digital control system for the management of solar heat plant

NAME	Art. number	Dimensions	Description
Elios X3	420101	210x120x50mm	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 differential regulator of temperature, it offers many options and advanced functions to manage plant schemes of varios complexities and optimize the overall performance of the plant. - two outputs for phase control of pumps - visualization of temperature for 24 hours - "solar cooling" function - "anti freeze" function - "against bloking the pump" 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 fitted and in a control system. 12 possible shemes of application. 2 triac output, 1 relay output, 6 NTC or PT1000 probes inputs, dot matrix graphic display (128X64 pixel) backlit, 4 bottons, 1 state led, box suitable for wall mounting or in a control system.
PT1000		-	
NTC		-	

NAME	Art. number	Dimensions	Description
RS02	420089	100x70x36mm	Programmable digital control for thermal solar systems inclusive of solar collectors, circulation pumps and/or diverter valves. Besides the fundamental function of differential regulator of temperature, it offers many options and advanced functions to manage plant schemes of varios complexities and optimize the overall performance of the plant. - one output for phase control of pumps - "solar cooling" function - "anti freeze" function - "against bloking the pump" 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 bottons, box suitable for wall mounting or in a control system.
PT1000		-	
NTC		-	

SOLAR PUMP GROUP

NAME	Art. number	Power of the pump	Dimensions	Max working pressure	Max working temperature	Debit range
FlowBox Solar 8010	420103	36/43/49W	308/270/220mm	10bar	110°C	2-16L/min

Description

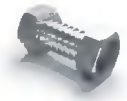
Ready to mount, compact solar unit. Overall height 308mm, standart circulation pumps with installation length of 130mm - cabling ex works, balancing valve WattFlow with fill and drain-cock, safety unit with pressure gauge, solar safety relief valve 6bar and fill and drain-cock, wall bracket including corrugated tube to connect with the expansion vessel, arrangeable metal gravity brake via 45° position of the thermo hadle, 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).

NAME	Art. number	Power of the pump	Dimensions	Max working pressure	Max working temperature	Debit range
FlowBox Solar 7000	420105	46/67/93W	355/340/200mm	10bar	110°C	4-36L/min

Description

Ready to mount, compact solar return line. Overall height 355mm, standart circulation pumps with installation length of 180mm - cabling ex works, balancing valve WattFlow with fill and drain-cock, safety unit with pressure gauge, solar safety relief valve 6bar 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 hadle, 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 (2h) to +120°C.

NAME		Art. number	
CONNECTOR AND FITTING FOR SOLAR COLLECTOR			
 Blind plug Ø22		420100	Connection Ø22
 Nipple Ø22-Ø22		420099	Ø22 - Ø22
CONNECTION KIT FOR ONE SOLAR COLLECTOR SP 07			
 Nipple NP-22-¾" (Ø22-¾")	1pcs	300876	Connection Ø22 - G¾"
 Blind plug Ø22	2pcs		Ø22
 Manual Air Valve with sensor hive SH-22	1pcs		Ø22 - ¾"
FLEXIBLE HOUSE KIT FH-22 FOR SOLAR PANELS SP 07			
 Flexible hose 50mm	2pcs	300877	Connection 1"
 Nipple NP-22-1"	4pcs		Ø22 - 1"
ROOF SET			
 MK-SR0 Slope roof mounting kit 0° for single solar panel SP 07 XXX		420097	Description They are sent totally packaged, encoded and with installation manual. Available for: - flat roofs - Models MK-FR-2M and MK-FR-2M Doube and MK-FR-2,5M. Possible angles 30°, 35° and 40°; - slope roofs - models MK-SR0 and MK-SR0 Double; - for one solar panel (flat roof) - model MK-FR-2M and MK-FR-2,5M; - for two solar panels (flat roof) - model MK-FR-2M Doube; - for one solar panel (slope roof) - model MK-SR0; - for two solar panels (slope roof) - model MK-SR0 Double.
MK-SR0 Double Slope roof mounting kit 0° for two solar panels SP 07 XXX		420098	
 MK-FR-2M Flat roof mounting kit for single solar panel SP 07 200 ASL		420094	
MK-FR-2M Doube Flat roof mounting kit for two solar panels SP 07 200 ASL		420095	
MK-FR-2,5M Flat roof mounting kit for single solar panel SP 07 250 ASL		420096	
PG CONCETRATE			
 Polypropylene 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.

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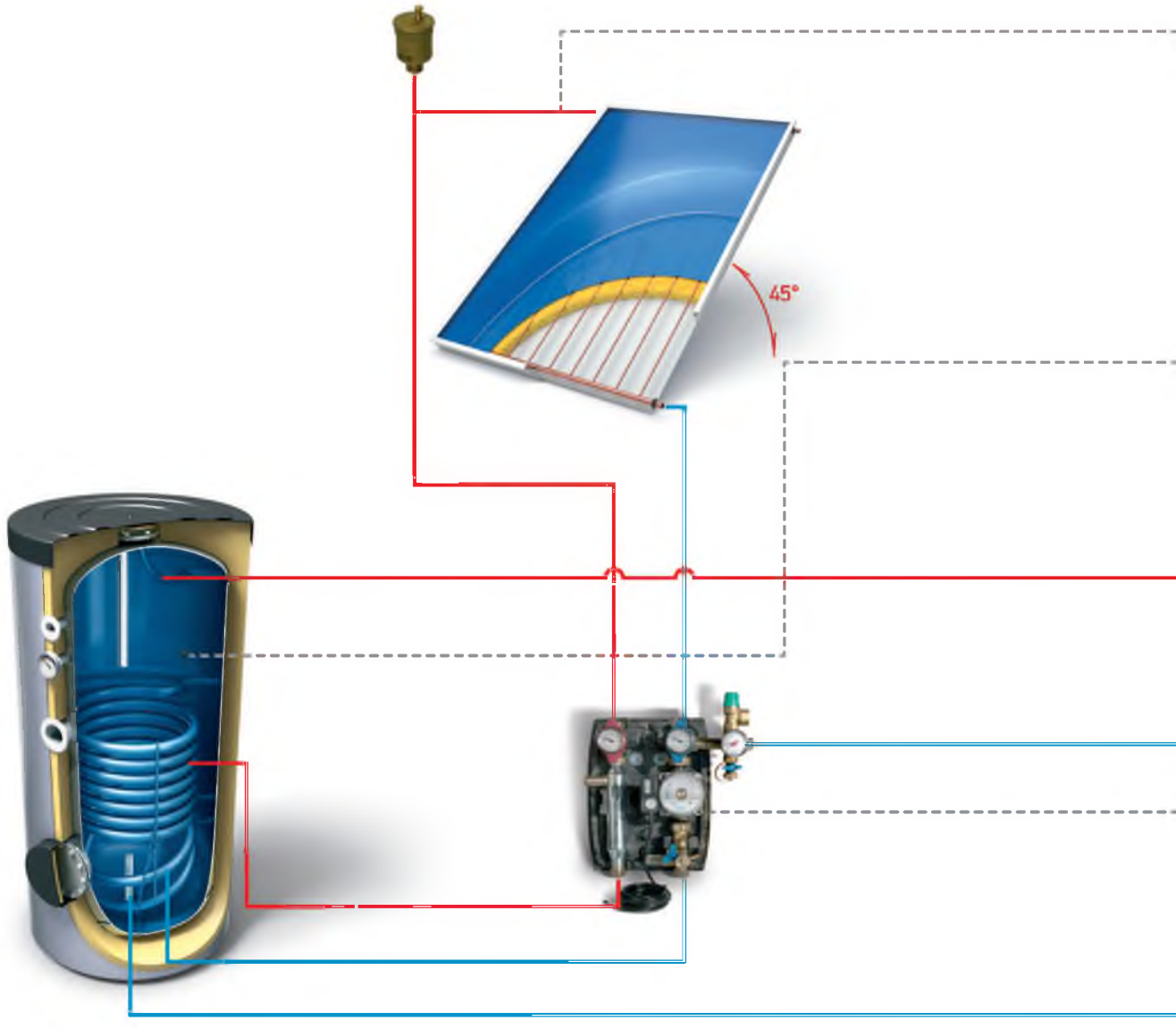

SYSTEM	Art. number	Household	Consumption of hot water (used in solar system simulation)	Maximum avaliable quantity of hot water (MIX 45°C) (Water heater potential)	Water heater with indirect heating [O]*	Solar panel [S]*	Solar hydraulic group [S]*	Solar expansion vessel [S]*	Solar controller set with thermosensor [S]*
SS 120 / SP07	N/A	up to 2 persons	up to 100L/day	98L stored	GSV9S 120 45 XX A03 TSRP	SP 07 200 ASL	Flow Box 8010	S 12L	RS02
SS 150 / SP07	N/A	2 - 3 persons	120L/day	127L stored	GSV9S 150 45 XX A03 TSRP	SP 07 200 ASL	Flow Box 8010	S 12L	RS02
SS 200 / SP07	3411	3 - 4 persons	150-200L/day	225L stored	EV9S 200 60 F40 TP	2 x SP 07 200 ASL	Flow Box 8010	S 12L	Elios X3
SS 300 / SP07	3412	4 - 5 persons	200-250L/day	330L stored	EV12S 300 65 F41 TP	3 x SP 07 200 ASL	Flow Box 8010	S 12L	Elios X3
SS 500-6 / SP07	3413	6 - 7 persons	300-350L/day	553L stored	EV15S 500 75 F42 TP	4 x SP 07 200 ASL	Flow Box 7000	S 24L	Elios X3
SS 500-8 / SP07	N/A	8 - 10 persons	400-500L/day	553L stored	EV15S 500 75 F42 TP	5 x SP 07 200 ASL	Flow Box 7000	S 24L	Elios X3

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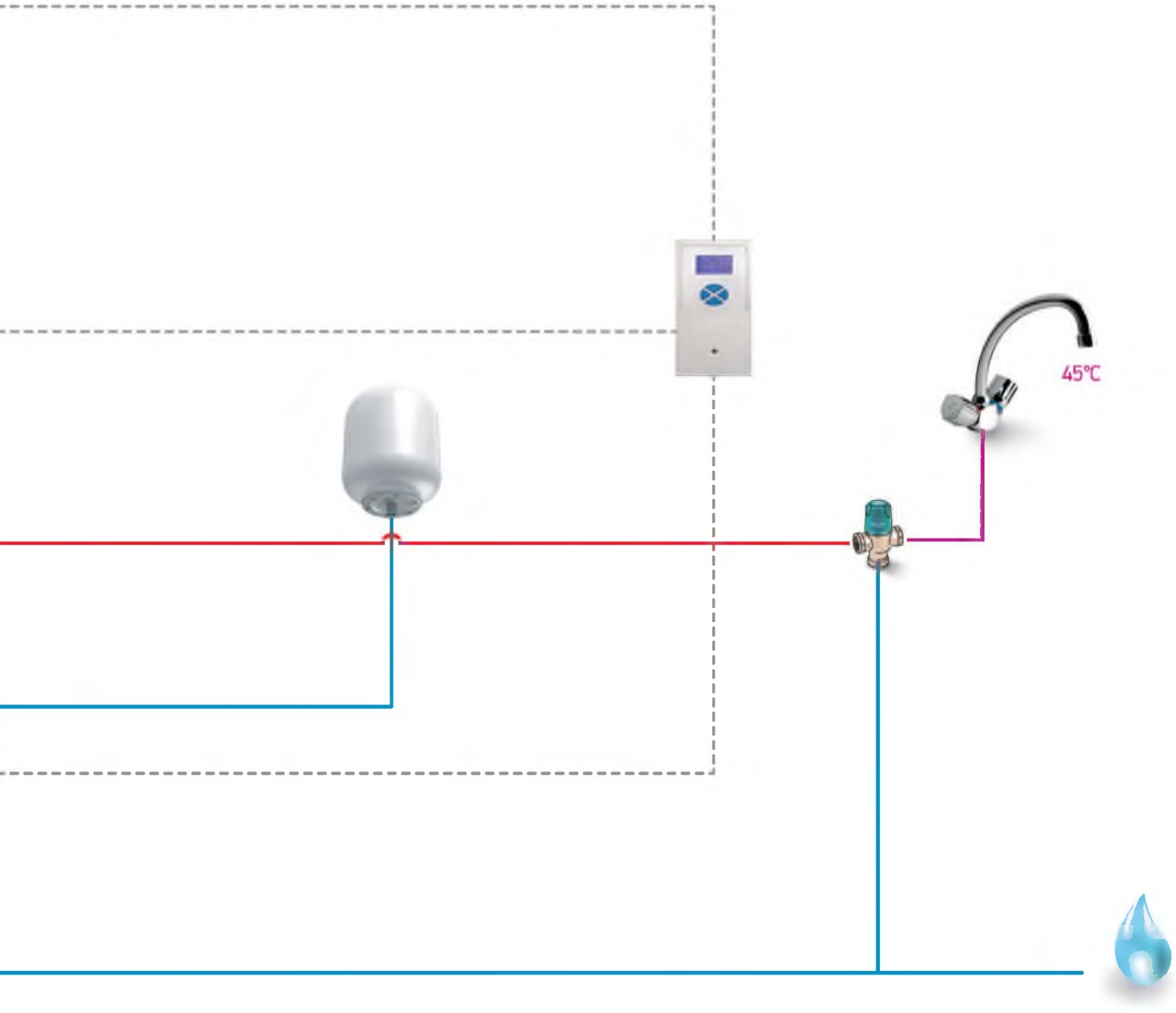

Thermo transfer fluid (concentrate) [S]*	Flexible compensators kit [S]*	Air vent [S]*	Compression fitting for copper pipe Ø22mm - G¾" [S]*	Blind plug Ø22 [S]*	Nipple Ø22-Ø22 [S]*	Roof stand [O]*	Thermostatic mixer [O]*	Electrical heater sets [O]*
10L	N/A	Manual Air Valve with sensor hive SH-22	1	2	N/A	MK FR-2M or MS SR0	MMVS 15	1.5kW or 2kW or 3kW
10L	N/A	Manual Air Valve with sensor hive SH-22	1	2	N/A	MK FR-2M or MS SR0	MMVS 15	1.5kW or 2kW or 3kW
10L	N/A	Manual Air Valve with sensor hive SH-22	1	2	2	MK FR-2M Double or MK SR0 Double	MMVS 15	3kW and/or 6kW
20L	FH-22	Manual Air Valve with sensor hive SH-22	1	2	2	MK FR-2M Double and MK FR-2M or MK SR0 Double and MS SR0	MMVS 15	3kW and/or 6kW
20L	FH-22	Manual Air Valve with sensor hive SH-22	1	2	4	2 x MK FR-2M Double or 2 x MK SR0 Double	MMVS 15	4.5kW and/or 6kW
20L	2 x FH-22	Manual Air Valve with sensor hive SH-22	1	2	4	2 x MK FR-2M Double and MK FR-2M or 2 x MK SR0 Double and MS SR0	MMVS 15	4.5kW and/or 6kW

↳ All systems are designed for latitude between ~ 35° N to 50° N and altitude between ~ 0m to 1000m!
For defferent climatic condition, please contact TESY Ltd.! For more details about system designing, please refer to instruction manual!
↳ * [S] - Standard; [O] - Optional

Control Panel

Heating controller will made the winter more comfortable with the all benefits of reneweable energy, thanks to its advanced software technology.

Automatic ignition
Automatic fuel feed
Manual heat exchanger cleaning
Manual ash removal cleaning (Ash Tray)
255 steps of power modulation
Electronic control unit
PID control
Burn back protection
External warning signal
High limit cut of thermostat
Frost protection

MODEL	Art. number	Min heat output	Max heat output	Weight	Heat carrier volume	Max operating pressure	Test pressure	Max boiler temperature	Max utility water temperature
PBA-17	420009	3kW	17kW	132kg	40L	3bar	4.3bar	90°C	80°C

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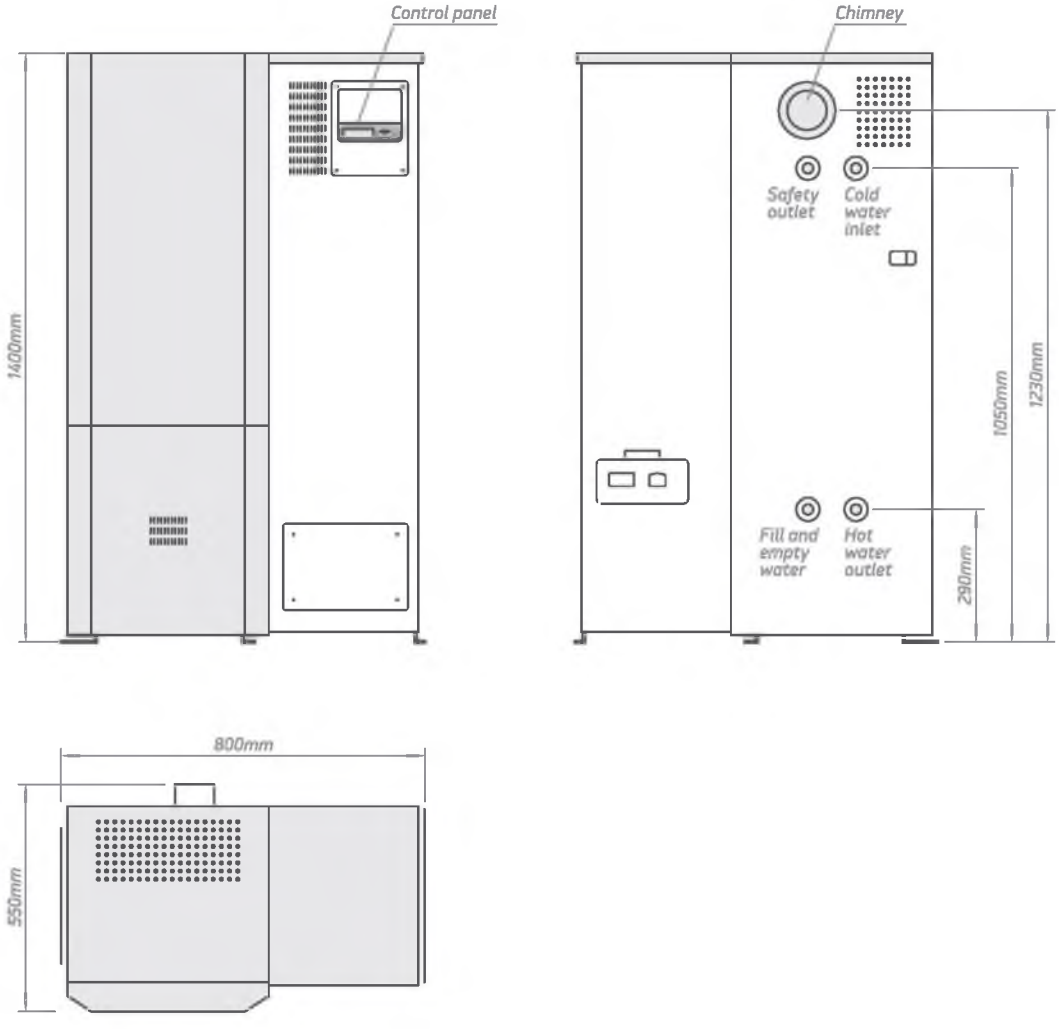

Control Panel

- *LCD Display - the controller has a 128 by 64 pixels graphical display*
- *Command Dial - instead of complicated buttons, swtiches and lights, Smartpel controller has an easy to use push-rotate command dial just like your car stereo*
- *Remote Controller Sensor*

Remote Controller

Smartpel controller has an infrared remote controller for basic settings.

- *Increase temperature*
- *Decrease temperature*
- *Power ON/OFF*

Max suction flow rate of flue	Dimensions H	L	W	Chimney	Hot water outlet	Cold water inlet	Safety outlet	Filling/ Empty	Bunker capacity	Type of the pellets (DIN-Plus Norm)
41m³/h	1400mm	800mm	550mm	Ø130mm	1"	1"	½"	½"	72kg	6mm

Control Panel

Heating controller will made the winter more comfortable with the all benefits of reneweable energy, thanks to its advanced software technology.

Automatic ignition
Automatic fuel feed
Manual heat exchanger cleaning
Manual ash removal cleaning (Ash Tray)
255 steps of power modulation
Electronic control unit
PID control
Burn back protection
External warning signal
High limit cut of thermostat
Frost protection

MODEL	Art. number	Min heat output	Max heat output	Weight	Heat carrier volume	Max operating pressure	Test pressure	Max boiler temperature	Max utility water temperature
PBA-25	420010	5kW	25kW	170kg	48L	3bar	4.3bar	90°C	80°C

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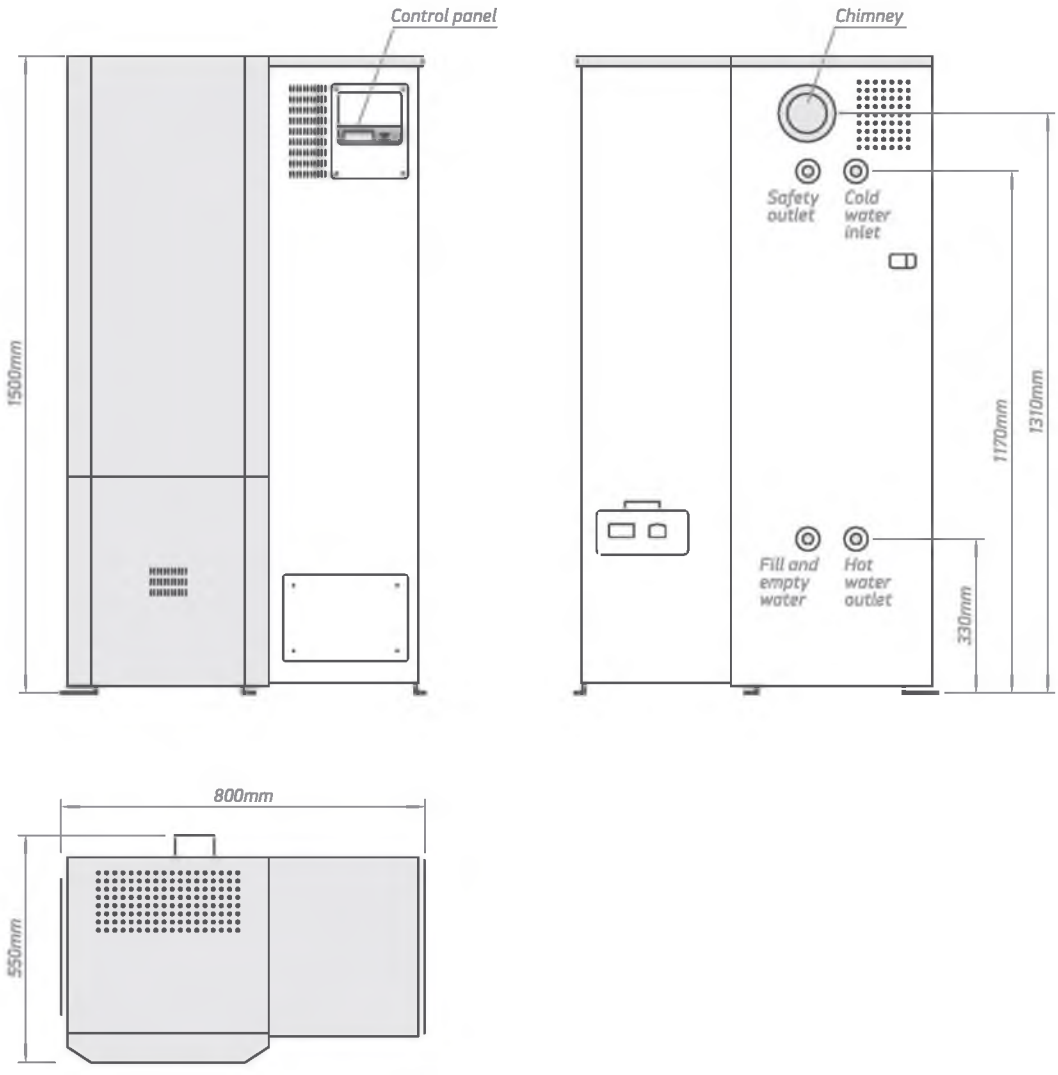

Control Panel

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Max suction flow rate of flue	Dimensions H	L	W	Chimney	Hot water outlet	Cold water inlet	Safety outlet	Filling/ Empty	Bunker capacity	Type of the pellets (DIN-Plus Norm)
60m³/h	1500mm	800mm	550mm	Ø130mm	1"	1"	½"	½"	78kg	6mm

S 35L

S 12L, S 24L

Solar models
Hidrophore models

H 24L, H 50L

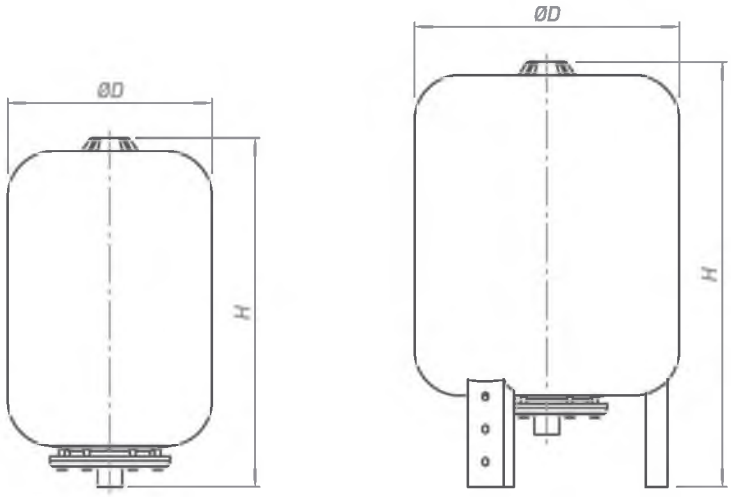
Expansion vessels

Solar models

MODEL	Art. number	Capacity	Body	Membrane material	Type of membrane (replacable)	Pipe connection material	Mounting
S 12L	421170	12L	steel	EPDM	bladder	galvanized steel	free
S 24L	421171	24L	steel	EPDM	bladder	galvanized steel	free
S 35L	421181	35L	steel	EPDM	bladder	galvanized steel	floor stand

Hidrophore models

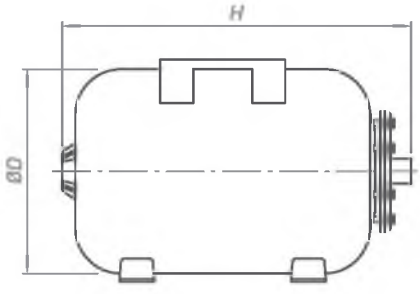
H 24L	420128	24L	steel	EPDM	bladder	galvanized steel	floor stand
H 50L	420129	50L	steel	EPDM	bladder	galvanized steel	floor stand



S 12L, S 24L

S 35L

H 24L, H 50L



Colour	Dimensions D	Dimensions H	Pipe connection size	Initial Pre-charge pressure	Max working pressure	Test pressure	System working temperature
white	270mm	350mm	¾"	2.5bar	10bar	14.3bar	130°C
white	270mm	460mm	¾"	2.5bar	10bar	14.3bar	130°C
white	350mm	560mm	¾"	2.5bar	10bar	14.3bar	130°C
red	270mm	460mm	¾"	1.5bar	10bar	14.3bar	99°C
red	350mm	560mm	¾"	1.5bar	10bar	14.3bar	99°C

In conformity with Directive Pressure equipment 97/23EC (PED), module H1

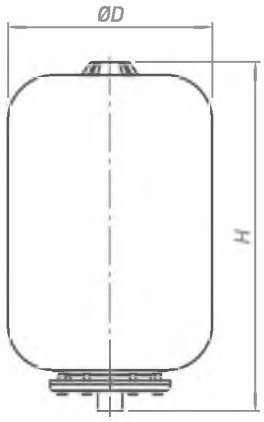
V 12L, V 18L, V 24L

V 35L, V 50L, V 80L, V 100L

Expansion vessels

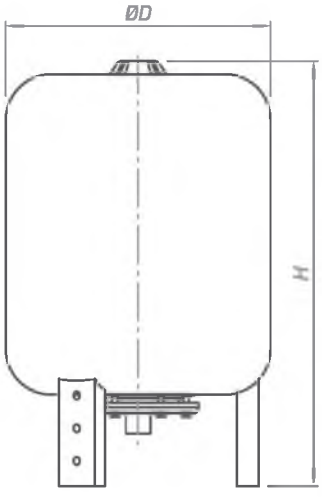
Sanitary and heating models

MODEL	Art. number	Capacity	Body	Membrane material	Type of membrane (replacable)	Pipe connection material	Mounting
V 12L	420121	12L	steel	EPDM	bladder	galvanized steel	free
V 18L	420122	18L	steel	EPDM	bladder	galvanized steel	free
V 24L	420123	24L	steel	EPDM	bladder	galvanized steel	free
V 35L	420124	35L	steel	EPDM	bladder	galvanized steel	floor stand
V 50L	420125	50L	steel	EPDM	bladder	galvanized steel	floor stand
V 80L	420126	80L	steel	EPDM	bladder	galvanized steel	floor stand
V 100L	420127	100L	steel	EPDM	bladder	galvanized steel	floor stand



V 12L, V 18L, V 24L

V 35L, V 50L, V 80L, V 100L



Colour	Dimensions D	H	Pipe connection size	Initial Pre-charge pressure	Max working pressure	Test pressure	System working temperature
red	270mm	350mm	¾"	1.5bar	10bar	14.3bar	99°C
red	270mm	410mm	¾"	1.5bar	10bar	14.3bar	99°C
red	270mm	460mm	¾"	1.5bar	10bar	14.3bar	99°C
red	350mm	560mm	¾"	1.5bar	10bar	14.3bar	99°C
red	350mm	670mm	¾"	1.5bar	10bar	14.3bar	99°C
red	450mm	710mm	1"	1.5bar	10bar	14.3bar	99°C
red	450mm	790mm	1"	1.5bar	10bar	14.3bar	99°C

In conformity with Directive Pressure equipment 97/23EC (PED), module H1

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