

ACCUMULATION TANKS

FOR HOT WATER HEATING SYSTEMS FIRED WITH SOLID FUEL,
BIOMASS, SOLAR...

CAS

501 - 5002

CAS accumulation tanks are engineered for integration into central heating systems primarily with solid fuel fired boilers (Bio-Tec, EKO-CK P, EKO-CKB P, CentroPlus, CentroPlus-B) but they are also applicable to other boilers with biomass, wood pellets or oil/gas firing boilers. Their purpose is to store heat energy and enable economical and efficient operation of the boiler. CAS are produced in seven different sizes (475, 740, 940, 1450, 2160, 2960, 3820 and 5055 litres) and four types: as an accumulation tank (CAS), as an accumulation tank for sanitary hot water processing with a built in stainless steel water heater (CAS-B), with an built in tube heat exchanger for connecting a solar collector (CAS-S), or with a built in stainless steel water heater with a tube heat exchanger (CAS-BS). These solutions enable the optimal combination of different kinds of renewable energy, economically and ecologically.

If CAS accumulation tanks are connected to the system, boiler firing can be performed in a suitable period of the day. If outdoor temperatures are milder, room heating and domestic hot water temperature level can be maintained over several days. CAS accumulation tanks are manufactured according to ISO 9001/2000 standards.



HEATING TECHNIQUE

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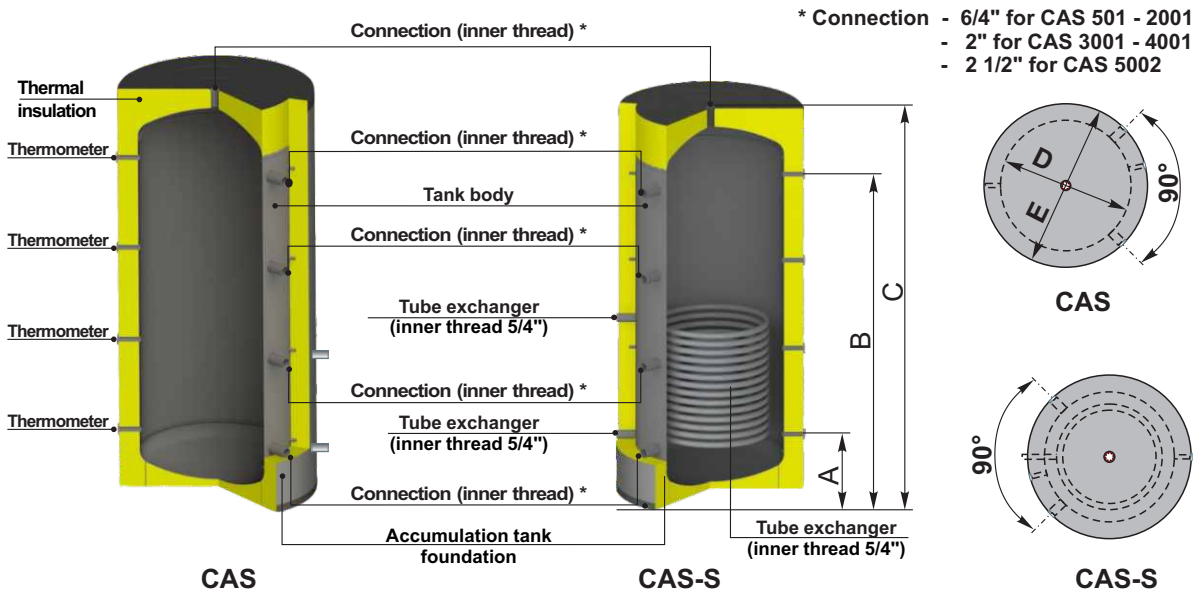
CHARACTERISTICS OF CAS ACCUMULATION TANKS:

- Designed to be connected to central heating systems to store heat energy.
- Improved boiler efficiency.
- Are made out of tested steel sheet according to ISO 9001/2000 standards.
- Low heat losses through high effective thermal insulation.
- Tanks can be added to each other, in order to increase total storage capacity.
- Produced in 7 different sizes and 4 types:
 - **CAS 501** (475 lit.), **CAS 801** (740 lit.), **CAS 1001** (940 lit.), **CAS 1501** (1435 lit.), **CAS 2001** (1920 lit.), **CAS 3001** (2960 lit.) **CAS 4001** (3820 lit.), **CAS 5002** (5055 lit.) - accumulation tank;
 - **CAS-S 501** (475 lit.), **CAS-S 801** (740 lit.), **CAS-S 1001** (940 lit.) - accumulation tank with tube heat exchanger for connection to solar collectors;
 - **CAS-B 501** (475 lit.), **CAS-B 801** (740 lit.), **CAS-B 1001** (940 lit.) - accumulation tank with integrated stainless steel water heater for domestic hot water;
 - **CAS-BS 501** (475 lit.), **CAS-BS 801** (740 lit.), **CAS-BS 1001** (940 lit.) - accumulation tank with built in stainless steel water heater for domestic hot water and tube heat exchanger for connection to solar collectors.

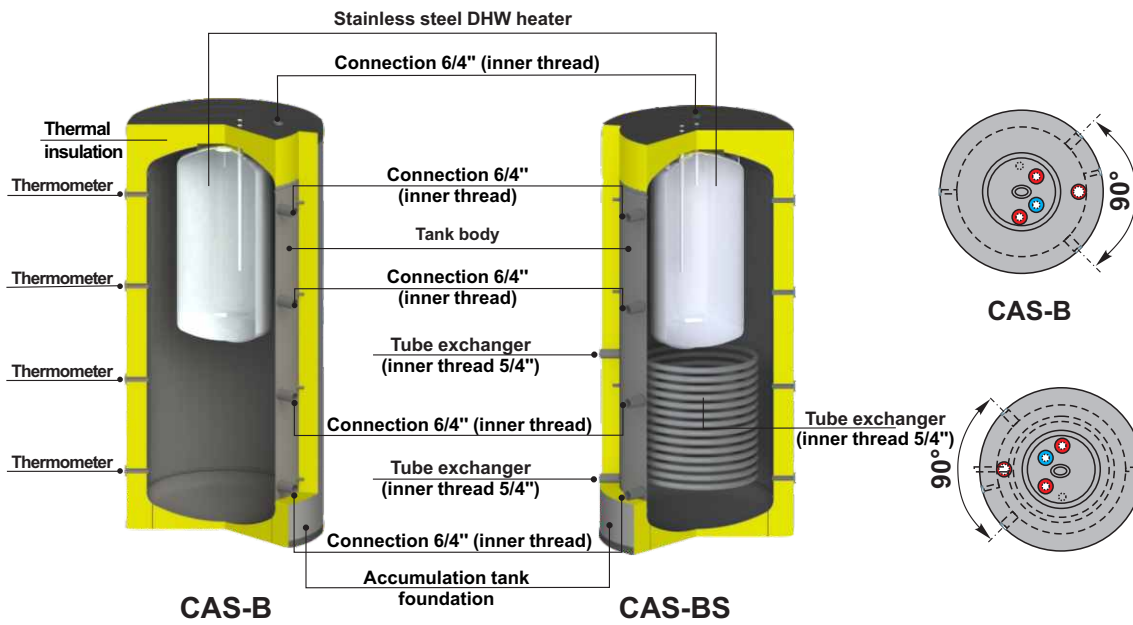
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TANK CROSS SECTION



TANK CROSS SECTION



Tip	CAS								CAS-S			CAS-BS			CAS-B		
	501	801	1001	1501	2001	3001	4001	5002	501	801	1001	501	801	1001	501	801	1001
Capacity (lit.)	475	740	940	1450	2160	2960	3820	5055	475	740	940	475	740	940	475	740	940
Tank body diameter D (mm)	650	790	790	1000	1200	1250	1400	1600	650	790	790	650	790	790	650	790	790
Outer diameter E (mm)	850	990	990	1200	1400	1450	1600	1800	850	990	990	850	990	990	850	990	990
Total height C (mm)	1670	1750	2150	2100	2180	2695	2790	2825	1670	1750	2150	1670	1750	2150	1670	1750	2150
Connections (R)	6/4"	6/4"	6/4"	6/4"	6/4"	2"	2"	2 1/2"	6/4"	6/4"	6/4"	6/4"	6/4"	6/4"	6/4"	6/4"	6/4"
Max. operat. pressure (bar)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Max. operat. temp. (°C)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Min. height of the room (mm)	1870	1950	2350	2300	2335	2915	3015	3000	1870	1950	2350	1870	1950	2350	1870	1950	2350
Mass of tank body (kg)	75	99	149	185	245			445	100	135	185	120	175	225	105	135	176
Mass of tank with insulat. (kg)	84	112	164	204	265				109	150	201	129	190	241	114	150	191
DHW cylinder content (lit.)	-	-	-	-	-	-	-	-	-	-	-	125	170	170	125	170	170
Max. operat. press. DHW t (bar)	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6
Connections DHW tank (R)	-	-	-	-	-	-	-	-	-	-	-	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Tube exch. heat. surface (m²)	-	-	-	-	-	-	-	-	1,9	2,6	3,2	1,9	2,6	3,2	-	-	-
Tube exchanger content (lit.)	-	-	-	-	-	-	-	-	10,5	14	17,5	10,5	14	17,5	-	-	-
Thermal insulation (mm)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Height A (mm)	230	320	320	320	355	370	420	515	230	320	320	230	320	320	230	320	320
Height B (mm)	1380	1370	1770	1720	1755	2260	2310	2365	1380	1370	1770	1380	1370	1770	1380	1370	1770

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