

# ACCUMULATION TANKS

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

# CAS

501 - 4001

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, 1435, 1920, 2960, 3820 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

Centrometal

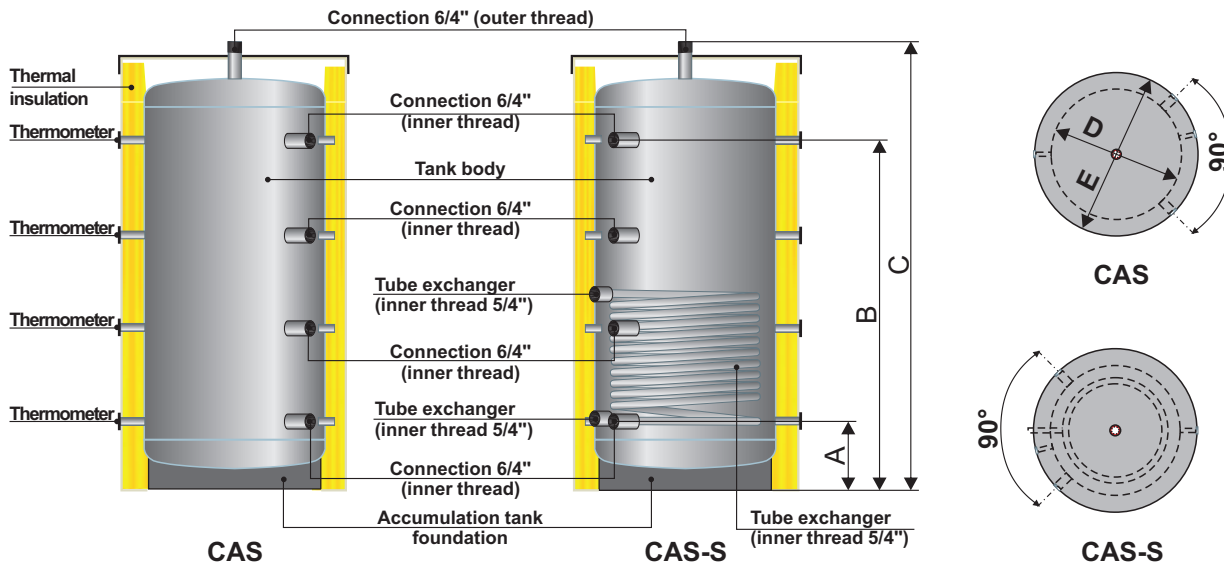
## CHARACTERISTICS OF CAS ACCUMULATION TANKS:

- 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.) - 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.

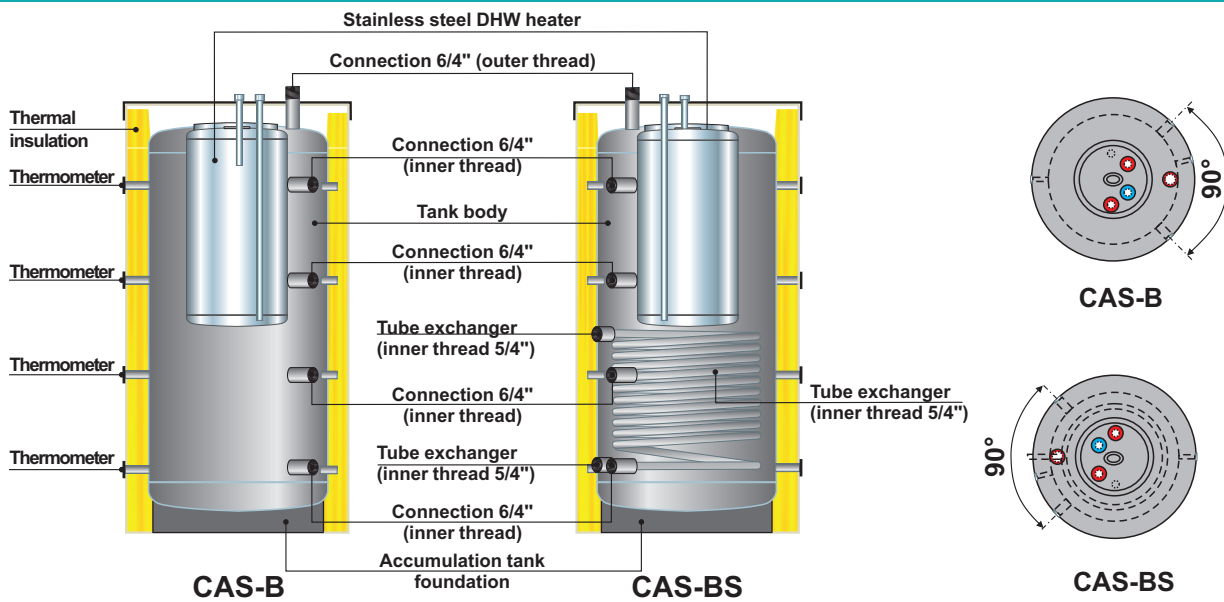
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TANK CROSS SECTION



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|  | CAS  |      |      |      |      |      |      | CAS-S |      |      | CAS-BS |      |      | CAS-B |      |      |
|--|------|------|------|------|------|------|------|-------|------|------|--------|------|------|-------|------|------|
|  | 501  | 801  | 1001 | 1501 | 2001 | 3001 | 4001 | 501   | 801  | 1001 | 501    | 801  | 1001 | 501   | 801  | 1001 |
| Capacity (lit.)                            | 475  | 740  | 940  | 1435 | 1920 | 2960 | 3820 | 475   | 740  | 940  | 475    | 740  | 940  | 475   | 740  | 940  |
| Tank body diameter D (mm)                  | 650  | 790  | 790  | 1000 | 1200 | 1250 | 1400 | 650   | 790  | 790  | 650    | 790  | 790  | 650   | 790  | 790  |
| Outer diameter E (mm)                      | 850  | 990  | 990  | 1200 | 1400 | 1450 | 1600 | 850   | 990  | 990  | 850    | 990  | 990  | 850   | 990  | 990  |
| Total height C (mm)                        | 1715 | 1795 | 2195 | 2145 | 2225 | 2740 | 2835 | 1715  | 1795 | 2195 | 1715   | 1795 | 2195 | 1715  | 1795 | 2195 |
| Connections (R)                            | 6/4" | 6/4" | 6/4" | 6/4" | 6/4" | 6/4" | 6/4" | 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    |
| Max. operat. temp. (°C)                    | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100   | 100  | 100  | 100    | 100  | 100  | 100   | 100  | 100  |
| Min. height of the room (mm)               | 1915 | 1995 | 2395 | 2345 | 2380 | 2960 | 3060 | 1915  | 1995 | 2395 | 1915   | 1995 | 2395 | 1915  | 1995 | 2395 |
| Mass of tank body (kg)                     |      | 99   | 149  |      |      |      |      |       |      |      |        |      | 215  |       | 137  | 176  |
| Mass of tank with insulat. (kg)            |      | 112  | 164  |      |      |      |      |       |      |      |        |      | 230  |       | 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 (m <sup>2</sup> ) | -    | -    | -    | -    | -    | -    | -    | 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  |
| Height A (mm)                              | 230  | 320  | 320  | 320  | 355  | 370  | 420  | 230   | 320  | 320  | 230    | 320  | 320  | 230   | 320  | 320  |
| Height B (mm)                              | 1380 | 1370 | 1770 | 1720 | 1755 | 2260 | 2310 | 1380  | 1370 | 1770 | 1380   | 1370 | 1770 | 1380  | 1370 | 1770 |