



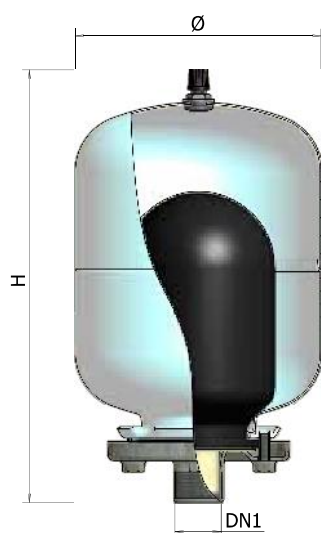
# AC-2 / ER-CE

## FIXED BLADDER EXPANSION TANKS FOR HEATING

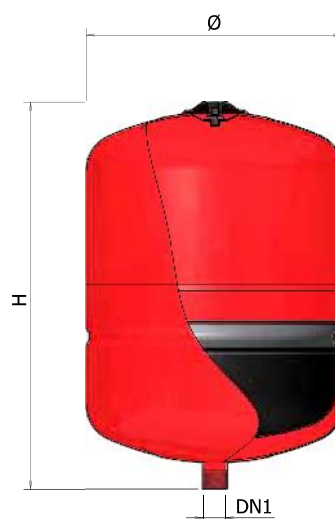
(2 - 24 LITRES)



### AC - 2



### ER 5 - 24



CE certified product



For non-drinking water



For heating systems



For air conditioning systems

#### Characteristics:






- Working temperature: -10° / +99°C
- Long lasting epoxy powder paint, red. (Model AC-2: white)
- Fixed bladder in SBR rubber (Model AC-2: replaceable butyl bladder)
- Wall fixing bracket on request (see page 225)

#### Reference standard

- Declaration of conformity to essential safety requirements outlined by Directive 97/23/EC (PED). Models AC-2/ER5 are without CE marking.

WARRANTY: 2 YEARS

## DIMENSIONS

| MODEL    | CODE    |  | Ppre | Pmax |  |  |  | DN1  |  | NOTES |
|----------|---------|---|------|------|---|---|---|------|--|-------|
|          |         | LITRES  | bar  | bar  | max   | mm  | mm  | mm   |  |       |
| AC-2 *   | A012J07 | 2   | 1,5  | 8    | +99°C   | 130   | 230   | 3/4" | 150 x 150 x 240  |       |
| ER 5 *   | A102L11 | 5   | 1,5  | 8    | +99°C   | 205   | 225   | 3/4" | 210 x 210 x 250  |       |
| ER 8 CE  | A102L16 | 8   | 1,5  | 8    | +99°C   | 205   | 300   | 3/4" | 210 x 210 x 320  |       |
| ER 12 CE | A102L20 | 12  | 1,5  | 8    | +99°C   | 270   | 300   | 3/4" | 280 x 280 x 310  |       |
| ER 18 CE | A102L24 | 18  | 1,5  | 8    | +99°C   | 270   | 410   | 3/4" | 280 x 280 x 450  |       |
| ER 24 CE | A102L27 | 24  | 1,5  | 8    | +99°C   | 320   | 355   | 3/4" | 330 x 330 x 375  |       |

\* Without CE marking

## CHOICE OF THE EXPANSION TANK

The table simplifies the choice of the ELBI expansion tank to be installed in hot water systems. The selection of the tank can be effectuated starting from the system's total capacity or from the plant's power, taking into consideration an average content of 12 litres per 1000 Kcal/h of power and a plant's maximum working pressure of 3 bars

| MODEL    | PRE-CHARGE PRESSURE<br>[BAR] | PLANT HEIGHT<br>[m] | TANK ACCEPTABLE VOLUME<br>[litri] | TANK ABSORPTION CAPACITY<br>[%] | $\Delta T = (90 - 14)^{\circ}\text{C}$<br>$\Delta$ expansion coefficient 0,035 |                      |       |
|----------|------------------------------|---------------------|-----------------------------------|---------------------------------|--|----------------------|-------|
|          |                              |                     |                                   |                                 | TOTAL WATER CONTENT IN THE PLANT   | HEAT GENERATOR POWER |       |
|          |                              |                     |                                   |                                 | [litres]   | kcal/h               | kW    |
| AC-2     | 0,5                          | 5                   | 1,3                               | 62,5                            | 36   | 3.000                | 3,49  |
|          | 1                            | 10                  | 1                                 | 50                              | 29   | 2.400                | 2,79  |
| ER 5     | 0,5                          | 5                   | 3,1                               | 62                              | 89   | 7.400                | 8,6   |
|          | 1                            | 10                  | 2,5                               | 50                              | 71   | 5.900                | 6,86  |
| ER 8 CE  | 0,5                          | 5                   | 5                                 | 62                              | 143  | 11.900               | 13,84 |
|          | 1                            | 10                  | 4                                 | 50                              | 114  | 9.500                | 11,4  |
| ER 12 CE | 0,5                          | 5                   | 7,5                               | 63                              | 214  | 17.800               | 20,7  |
|          | 1                            | 10                  | 6                                 | 50                              | 171  | 14.250               | 16,57 |
| ER 18 CE | 0,5                          | 5                   | 11,3                              | 63                              | 323  | 26.900               | 31,3  |
|          | 1                            | 10                  | 9                                 | 50                              | 257  | 24.100               | 28,2  |
|          | 1,5                          | 15                  | 6,7                               | 37                              | 191  | 15.900               | 18,5  |
| ER 24 CE | 0,5                          | 5                   | 15,5                              | 65                              | 443  | 36.900               | 43    |
|          | 1                            | 10                  | 12                                | 50                              | 343  | 28.600               | 33,26 |
|          | 1,5                          | 15                  | 9,3                               | 39                              | 266  | 22.200               | 25,82 |