

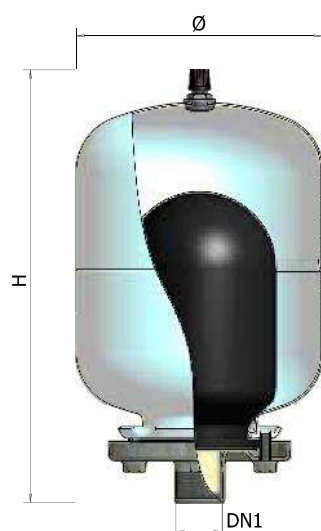
# AC-2 / ER-CE

## FIXED BLADDER EXPANSION TANKS FOR HEATING

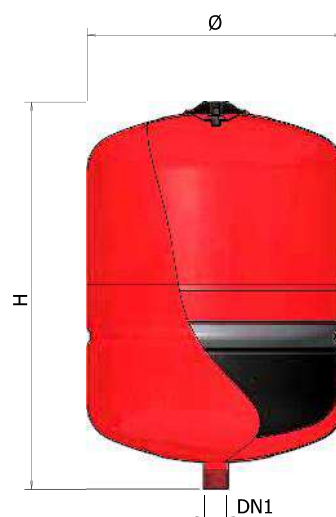
(2 - 24 LITRES)



### 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 |  max |  mm |  mm | DN1 |  mm | 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<br>[litres]                                   | HEAT GENERATOR POWER |       |
|          |                              |                     |                                   |                                 |                                                                                | 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 |