

# barnova

INNOVATIVE PRESSURE COMPETENCE

## TECHNOFLEX

*HN/HT/SO/TS*

- ✓ Heating systems
- ✓ Cooling water systems
- ✓ Solar systems



Membrane expansion tank

Temperature reduction tank

## TECHNOFLEX HN

### Expansion tanks with non replaceable membrane

#### Applications:

- Water heating systems to DIN EN 12828
- Cooling water systems with up to 50 % antifreeze

#### HT 8 – 25:

- Tanks are connected directly to the pipeline

#### HT 35 – 1.000:

- Free-standing tanks with a pressure gauge from 100 litres

#### Construction:

- in accordance with EU Pressure Equipment Directive 2014/68/EU with a CE mark and DIN EN 13831/AD2009

max. operating pressure:

- 6.0 bar

max. membrane operating temperature:

- 70°C

factory-set initial pressure:

- 3.5 bar

**When placing your order, please specify the exact initial pressure required.**

6.0 bar / 100°C / colour: blue

Product group 99

| Type (size) | Ø (mm) | Height (mm) | Weight (kg) | System connection | Order no. |
|-------------|--------|-------------|-------------|-------------------|-----------|
| 8           | 215    | 350         | 2.0         | 3/4"              | 419901    |
| 12          | 215    | 400         | 2.2         | 3/4"              | 419902    |
| 18          | 260    | 400         | 3.1         | 1"                | 419903    |
| 25          | 250    | 430         | 3.5         | 1"                | 419904    |
| 35          | 350    | 610         | 5.5         | 1"                | 419905    |
| 50          | 370    | 695         | 7.4         | 1"                | 419906    |
| 80          | 460    | 840         | 14.7        | 1"                | 419907    |
| 100         | 460    | 920         | 14.9        | 1"                | 419908    |
| 150         | 508    | 1100        | 23.0        | 1"                | 419909    |
| 200         | 585    | 1120        | 28.0        | 1"                | 419910    |
| 300         | 640    | 1260        | 39.5        | 1 1/4"            | 419911    |
| 400         | 640    | 1360        | 54.0        | 1 1/4"            | 419912    |
| 500         | 750    | 1520        | 64.0        | 1 1/4"            | 419913    |
| 600         | 750    | 1700        | 72.5        | 1 1/4"            | 419914    |
| 800         | 800    | 1820        | 114.0       | 1 1/4"            | 419915    |
| 1,000       | 800    | 2120        | 139.8       | 2"                | 419916    |

We reserve the right to make technical changes and special tanks are available on request.



## TECHNOFLEX HT

### Expansion tanks with a replaceable membrane

#### Applications:

- Water heating systems to DIN EN 12828
- Cooling water systems with up to 50 % antifreeze

#### HT PLUS 50 – 5,000:

#### Construction:

- Free-standing tanks with a pressure gauge from 100 litres
- in accordance with EU Pressure Equipment Directive 2014/68/EU with a CE mark and DIN EN 13831/AD2000

max. operating pressure:

- 6.0 bar

max. membrane operating temperature:

- 70°C

factory-set initial pressure:

- 3.5 bar

**When placing your order, please specify the exact initial pressure required.**

6.0 bar / 100°C / colour: blue

Product group 98

| Type (size) | Ø (mm) | Height (mm) | Weight (kg) | System connection | Order no. |
|-------------|--------|-------------|-------------|-------------------|-----------|
| 50          | 370    | 695         | 7.4         | 1"                | 429806    |
| 80          | 460    | 840         | 14.7        | 1"                | 429807    |
| 100         | 460    | 920         | 14.9        | 1"                | 429808    |
| 150         | 508    | 1100        | 23.0        | 1"                | 429809    |
| 200         | 585    | 1120        | 28.0        | 1"                | 429810    |
| 300         | 640    | 1260        | 39.5        | 1 ¼"              | 429811    |
| 400         | 640    | 1360        | 54.0        | 1 ¼"              | 429812    |
| 500         | 750    | 1520        | 64.0        | 1 ¼"              | 429813    |
| 600         | 750    | 1700        | 72.5        | 1 ¼"              | 429814    |
| 800         | 800    | 1820        | 114.0       | 1 ¼"              | 429815    |
| 1,000       | 800    | 2120        | 139.8       | 2"                | 429816    |
| 1,500       | 960    | 2350        | 267.0       | 2"                | 429817    |
| 2,000       | 1100   | 2520        | 380.0       | 4"                | 429818    |
| 2,500       | 1100   | 2750        | 450.0       | 4"                | 429819    |
| 3,000       | 1200   | 2800        | 525.0       | 4"                | 429820    |
| 4,000       | 1450   | 3100        | 660.0       | 4"                | 429821    |
| 5,000       | 1450   | 3720        | 770.0       | 4"                | 429822    |

We reserve the right to make technical changes and special tanks are available on request.



## TECHNOFLEX HT

### Expansion tanks with a replaceable membrane

#### Applications:

- Water heating systems to DIN EN 12828
- Cooling water systems with up to 35 % antifreeze

#### HT PLUS 50 – 5,000:

#### Construction:

max. operating pressure:

max. membrane operating temperature:

factory-set initial pressure:

- Free-standing tanks with a pressure gauge from 100 litres
- in accordance with EU Pressure Equipment Directive 2014/68/EU with a CE mark and DIN EN 13831/AD2000
- 10.0 bar (16.0 bar on request)
- 70°C
- 3.5 bar

**When placing your order, please specify the exact initial pressure required.**

10.0 bar / 100°C / colour: blue

Product group 98

| Type (size) | Ø (mm) | Height (mm) | Weight (kg) | System connection | Order no. |
|-------------|--------|-------------|-------------|-------------------|-----------|
| 50          | 370    | 695         | 7,9         | 1"                | 439806    |
| 80          | 460    | 840         | 15,8        | 1"                | 439807    |
| 100         | 460    | 920         | 17,2        | 1"                | 439808    |
| 150         | 508    | 1100        | 28,0        | 1"                | 439809    |
| 200         | 585    | 1120        | 35,0        | 1"                | 439810    |
| 300         | 640    | 1260        | 48,0        | 1 ¼"              | 439811    |
| 400         | 640    | 1360        | 63,5        | 1 ¼"              | 439812    |
| 500         | 750    | 1520        | 76,0        | 1 ¼"              | 439813    |
| 600         | 750    | 1700        | 84,5        | 1 ¼"              | 439814    |
| 800         | 800    | 1820        | 130,0       | 1 ¼"              | 439815    |
| 1,000       | 800    | 2120        | 160,0       | 2"                | 439816    |
| 1,500       | 960    | 2350        | 295,0       | 2"                | 439817    |
| 2,000       | 1100   | 2520        | 429,0       | 4"                | 439818    |
| 2,500       | 1100   | 2750        | 490,0       | 4"                | 439819    |
| 3,000       | 1200   | 2800        | 575,0       | 4"                | 439820    |
| 4,000       | 1450   | 3100        | 730,0       | 4"                | 439821    |
| 5,000       | 1450   | 3720        | 830,0       | 4"                | 439822    |

We reserve the right to make technical changes and special tanks are available on request.



## TECHNOFLEX SO

### Expansion tanks for solar thermal systems with a replaceable membrane

#### Applications:

- Heating, cooling and solar thermal systems to DIN EN 12828 and DIN EN 12976 with up to 50 % antifreeze

#### SO 2 – 25:

- Tanks are connected directly to the pipeline

#### SO 35 – 5,000:

- Free-standing tanks with a pressure gauge from 100 litres

#### Construction:

- in accordance with EU Pressure Equipment Directive 2014/68/EU with a CE mark and DIN EN 13831/AD2000

max. operating pressure:

- 10.0 bar (16.0 bar on request)

max. membrane operating temperature:

- 70°C – for a short time, up to 90°C is possible

factory-set initial pressure:

- 3.5 bar

**When placing your order, please specify the exact initial pressure required.**

10.0 bar / 100°C / colour: blue

Product group 97

| Type (size) | Ø (mm) | Height (mm) | Weight (kg) | System connection | Order no. |
|-------------|--------|-------------|-------------|-------------------|-----------|
| 2           | 162    | 205         | 1.4         | 3/4"              | 449700    |
| 8           | 215    | 350         | 2.0         | 3/4"              | 449701    |
| 12          | 215    | 400         | 2.2         | 3/4"              | 449702    |
| 18          | 260    | 400         | 3.1         | 1"                | 449703    |
| 25          | 250    | 430         | 3.5         | 1"                | 449704    |
| 35          | 350    | 610         | 5.5         | 1"                | 449705    |
| 50          | 370    | 695         | 7,9         | 1"                | 449706    |
| 80          | 460    | 840         | 15,8        | 1"                | 449707    |
| 100         | 460    | 920         | 17,2        | 1"                | 449708    |
| 150         | 508    | 1100        | 28,0        | 1"                | 449709    |
| 200         | 585    | 1120        | 35,0        | 1"                | 449710    |
| 300         | 640    | 1260        | 48,0        | 1 1/4"            | 449711    |
| 400         | 640    | 1360        | 63,5        | 1 1/4"            | 449712    |
| 500         | 750    | 1520        | 76,0        | 1 1/4"            | 449713    |
| 600         | 750    | 1700        | 84,5        | 1 1/4"            | 449714    |
| 800         | 800    | 1820        | 130,0       | 1 1/4"            | 449715    |
| 1,000       | 800    | 2120        | 160,0       | 2"                | 449716    |

We reserve the right to make technical changes and special tanks are available on request.



## TECHNOFLEX TS

### Temperature reduction tank

To reduce the temperature of the feed to **Barnova** membrane expansion tanks and **Barnova** pressure holding stations

#### Applications:

TS 5 – 25:

TS 50 – 5.000:

#### Construction:

max. operating pressure:

max. membrane operating temperature:

- Water heating systems to DIN EN 12828 and for cooling water systems
- vessels for hanging attachment to the pipeline
- Free-standing tanks
- in accordance with EU Pressure Equipment Directive 2014/68/EU with a CE mark and DIN EN 13831/AD2000
- 6.0 bar / 10.0 bar
- $\leq 120\text{ }^{\circ}\text{C}$

6.0 bar / 120°C / colour: white

Product group 96

| Type (size) | Ø (mm) | Height (mm) | Weight (kg) | System connection (2x DN) | Order no. |
|-------------|--------|-------------|-------------|---------------------------|-----------|
| 50          | 360    | 750         | 12,0        | 1"                        | 459806    |
| 100         | 450    | 850         | 18,0        | 1"                        | 459808    |
| 200         | 550    | 1.135       | 39,0        | 1 ½"                      | 459810    |
| 300         | 650    | 1.180       | 52,0        | 1 ½"                      | 459811    |
| 400         | 650    | 1.596       | 65,0        | 1 ½"                      | 459812    |
| 500         | 650    | 2.013       | 90,0        | 1 ½"                      | 459813    |
| 700         | 700    | 2.145       | 158,0       | 1 ½"                      | 459815    |
| 1.000       | 800    | 2.375       | 275,0       | 2"                        | 459816    |
| 1.500       | 1.250  | 2.250       | 310,0       | 65                        | 459817    |
| 2.000       | 1.250  | 2.608       | 395,0       | 65                        | 459818    |
| 3.000       | 1.600  | 2.505       | 490,0       | 80                        | 459820    |
| 4.000       | 1.600  | 3.012       | 590,0       | 80                        | 459821    |
| 5.000       | 1.600  | 3.520       | 690,0       | 80                        | 459822    |

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## TECHNOFLEX TS

10.0 bar / 120°C / colour: white

Product group 96

| Type<br>(size) | Ø<br>(mm) | Height<br>(mm) | Weight<br>(kg) | System<br>connection<br>(2x DN) | Order no. |
|----------------|-----------|----------------|----------------|---------------------------------|-----------|
| 5              | 200       | 250            | 2,0            | 3/4"                            | 459600    |
| 8              | 200       | 340            | 2,5            | 3/4"                            | 459601    |
| 12             | 270       | 310            | 3,2            | 3/4"                            | 459602    |
| 18             | 270       | 415            | 4,0            | 3/4"                            | 459603    |
| 25             | 320       | 430            | 4,5            | 3/4"                            | 459604    |
| 35             | 360       | 615            | 7,0            | 1"                              | 459605    |
| 50             | 360       | 750            | 14,0           | 1"                              | 459606    |
| 100            | 450       | 850            | 21,0           | 1"                              | 459608    |
| 200            | 550       | 1.135          | 45,0           | 1 1/2"                          | 459610    |
| 300            | 650       | 1.180          | 60,0           | 1 1/2"                          | 459611    |
| 400            | 650       | 1.569          | 80,0           | 1 1/2"                          | 459612    |
| 500            | 650       | 2.013          | 115,0          | 1 1/2"                          | 459613    |
| 700            | 700       | 2.145          | 175,0          | 1 1/2"                          | 459614    |
| 1.000          | 800       | 2.375          | 330,0          | 2"                              | 459616    |
| 1.500          | 1.250     | 2.250          | 360,0          | 65                              | 459617    |
| 2.000          | 1.250     | 2.608          | 445,0          | 65                              | 459618    |
| 3.000          | 1.600     | 2.505          | 540,0          | 80                              | 459620    |
| 4.000          | 1.600     | 3.012          | 640,0          | 80                              | 459621    |
| 5.000          | 1.600     | 3.520          | 740,0          | 80                              | 459622    |

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**INNOVATIVE PRESSURE COMPETENCE**

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