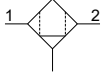


## Carbon filters (DD)



- Carbon filter
- Available in 2 sizes with connections from 3/8" to 1"
- Active carbon cartridge with built in particulate filter
- Used to remove oil vapours, hydrocarbons, odours and particles
- Oil residue up to <0,003 ppm (max input aerosol 0.01 ppm)
- High absorption capacity, with low differential pressure
- Filtering performances 99.97% (particles up to 0.01 µm)
- Bowl assembly via bayonet type quick coupling mechanism with safety button
- Semi-automatic drain
- Atex certification (II 2GD or II 3GD)
- Inlet pressures up to 20 bar



### Note

A 5 µ filter, coalescing filter and oil removing filter must be installed prior to the carbon filter, this is to ensure that the carbon filter operates correctly and safe guard the life of the active carbon element. It may also be necessary to replace the carbon element at fixed intervals.

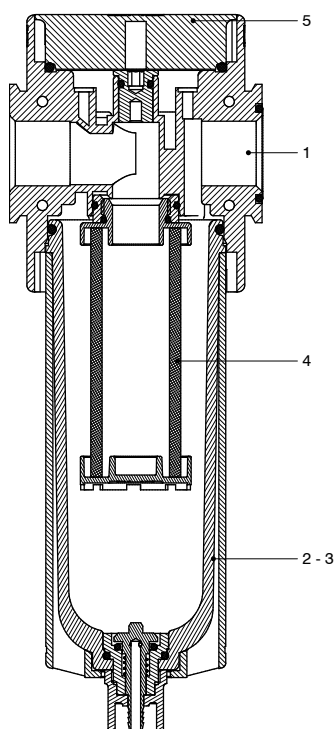
| Technical characteristics                    |                 |                                                                                                                                                                       |                  |
|----------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Size                                         |                 | Size 3                                                                                                                                                                | Size 4           |
| Body and connections type                    |                 | Technopolymer body, integrated technopolymer connections (T version)<br>Technopolymer body, metal connections (N version)                                             | /                |
|                                              |                 | Aluminium body, integrated aluminium connections (P - L versions)                                                                                                     |                  |
| Protection and bowl type                     |                 | Technopolymer protection - PC bowl<br>Technopolymer protection - PA bowl<br>Metal protection - PC bowl<br>Metal protection - PA bowl<br>Metal bowl (blind metal bowl) |                  |
| IN / OUT connections                         | T version       | G1/2"                                                                                                                                                                 | not available    |
|                                              | N version       | G3/8" - G1/2" - 1/2" NPT                                                                                                                                              |                  |
|                                              | P and L version | G1/2"                                                                                                                                                                 | G1"              |
| Assembly configuration                       |                 | Stand alone                                                                                                                                                           | Panel mounted    |
| Assembly positions                           |                 | Vertical ±5°                                                                                                                                                          |                  |
| Oil residue                                  |                 | < 0,003 ppm (max input aerosol 0.01 ppm)                                                                                                                              |                  |
| Bowl capacity                                |                 | 68 cm³                                                                                                                                                                | 90 cm³           |
| Condensation drain                           |                 | Semi-automatic                                                                                                                                                        |                  |
| Max. fittings torque<br>IN / OUT connections |                 | G3/8" metal: 25 Nm<br>G1/2" metal: 30 Nm<br>G1/2" technopolymer: 22 Nm                                                                                                | G1" metal: 35 Nm |

| Operational characteristics |                                                                                                                            |        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|--------|
| Size                        | Size 3                                                                                                                     | Size 4 |
| Condensation drain          | Semi-automatic                                                                                                             |        |
| Maximum working pressure    | 13 bar<br>20 bar (only with body and metal bowl)                                                                           |        |
| Minimum working pressure    | 0,5 bar                                                                                                                    |        |
| Working temperature         | -5 °C ... +50 °C<br>-30 °C +80 °C (only for P version and metal bowl)<br>-40 °C +80 °C (only for L version and metal bowl) |        |
| Cartridge life              | 2000 ore                                                                                                                   |        |

| Weights                                                                      |        |        |
|------------------------------------------------------------------------------|--------|--------|
|                                                                              | Size   |        |
|                                                                              | Size 3 | Size 4 |
| Fully technopolymer version                                                  | 395 g  | /      |
| Technopolymer body version, aluminium bowl protection and technopolymer bowl | 432 g  | /      |
| Technopolymer body version, aluminium bowl                                   | 505 g  | /      |
| Aluminium body version, technopolymer protection and bowl                    | 518 g  | 1201 g |
| Aluminium body version, aluminium bowl protection and technopolymer bowl     | 554 g  | 1344 g |
| Aluminium body version and aluminium bowl                                    | 628 g  | 1368 g |

## Materials

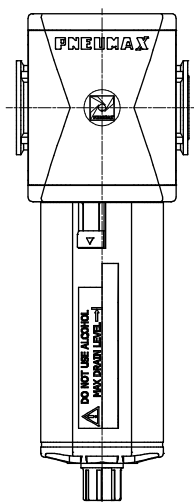
Exploded sectioned



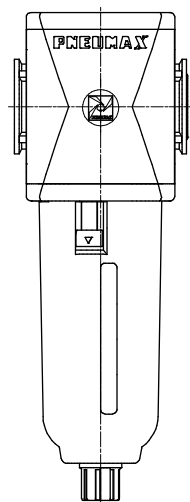
| Carbon filter |                               |                                                      |
|---------------|-------------------------------|------------------------------------------------------|
| 1             | Body                          | Polyamide<br>Die-cast aluminium                      |
| 2             | Technopolymer bowl            | Polycarbonate<br>Polyamide                           |
| 3             | Metal bowl<br>Bowl protection | Die-cast aluminium<br>Polyamide - Die-cast aluminium |
| 4             | Filtering element             | Activated carbon                                     |
| 5             | Plug                          | Polyamide<br>Die-cast aluminium                      |

## Design

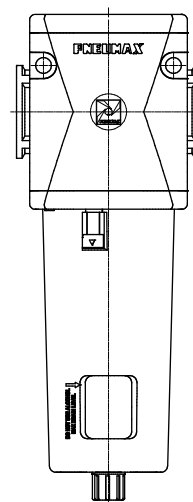
**Size 3**  
Technopolymer protection



**Size 3**  
Protection / Metal bowl



**Size 4**  
All versions





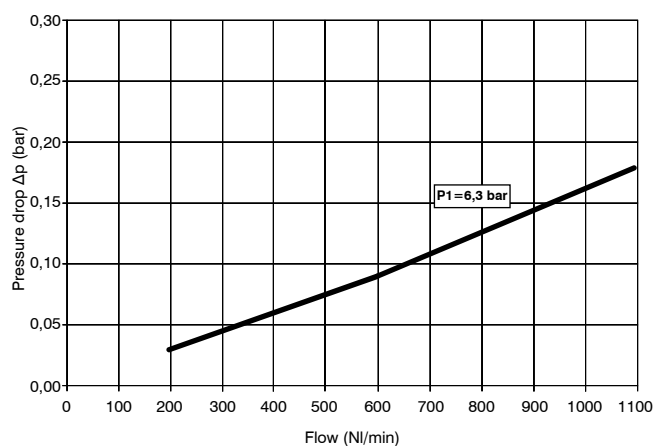
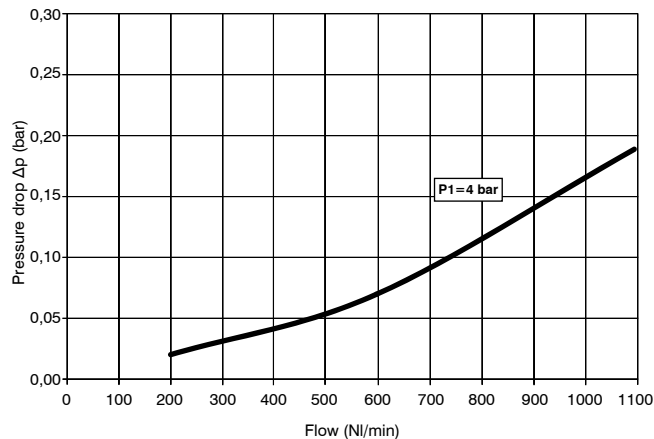
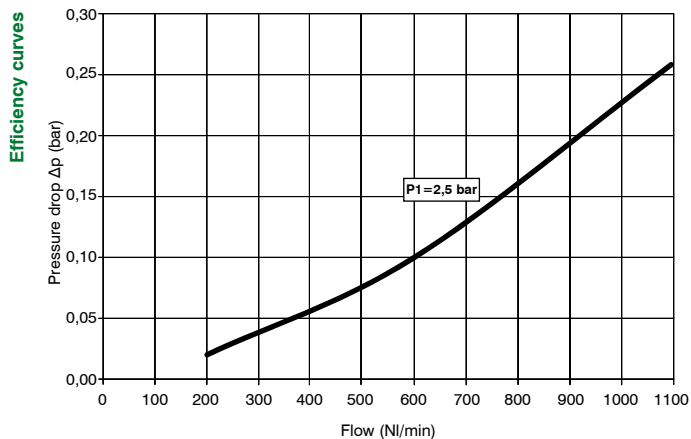
Order codes

|                                                                     |   |    |    |    |   |
|---------------------------------------------------------------------|---|----|----|----|---|
|                                                                     | T | 17 | 3B | DD | T |
| <b>Version</b>                                                      |   |    |    |    |   |
| N : Technopolymer body and metal inserts (not available for size 4) |   |    |    |    |   |
| T : Technopolymer body and thread (not available for size 4)        |   |    |    |    |   |
| P : Aluminium body                                                  |   |    |    |    |   |
| L : Aluminium body, low temperature                                 |   |    |    |    |   |
| <b>Size and connections</b>                                         |   |    |    |    |   |
| 3A : Size 3 - G3/8" only for N version                              |   |    |    |    |   |
| 3B : Size 3 - G1/2" for all versions                                |   |    |    |    |   |
| 3C : Size 3 - 1/2" NPT only for N version                           |   |    |    |    |   |
| 4B : Size 4 - G1" only for P - L versions                           |   |    |    |    |   |
| <b>Bowl options</b>                                                 |   |    |    |    |   |
| : Technopolymer protection - PC bowl                                |   |    |    |    |   |
| N : Technopolymer protection - PA bowl                              |   |    |    |    |   |
| P : Metal protection - PC bowl                                      |   |    |    |    |   |
| R : Metal protection - PA bowl                                      |   |    |    |    |   |
| T : Metal bowl                                                      |   |    |    |    |   |

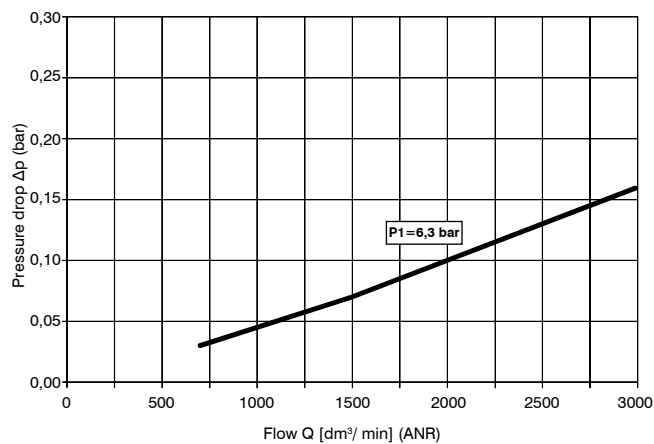
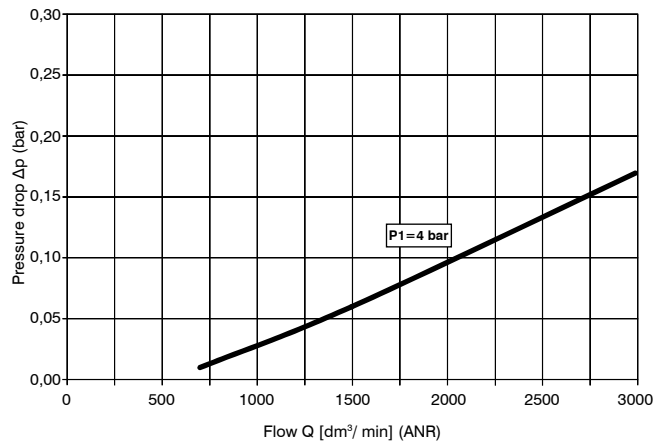
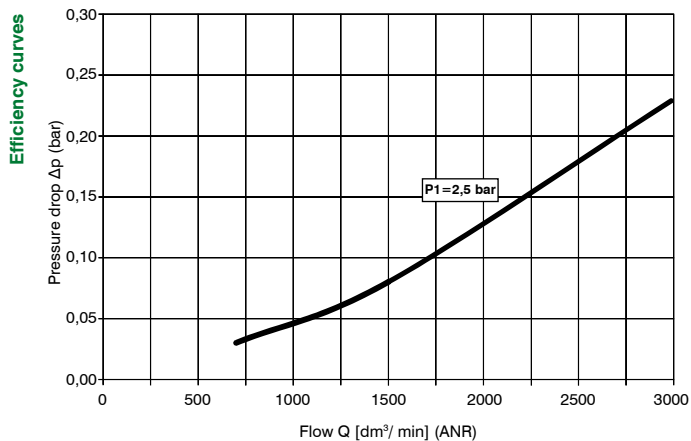
Example : T173BDDT : Size 3 carbon filter G1/2" metal bowl

## Characteristic curves

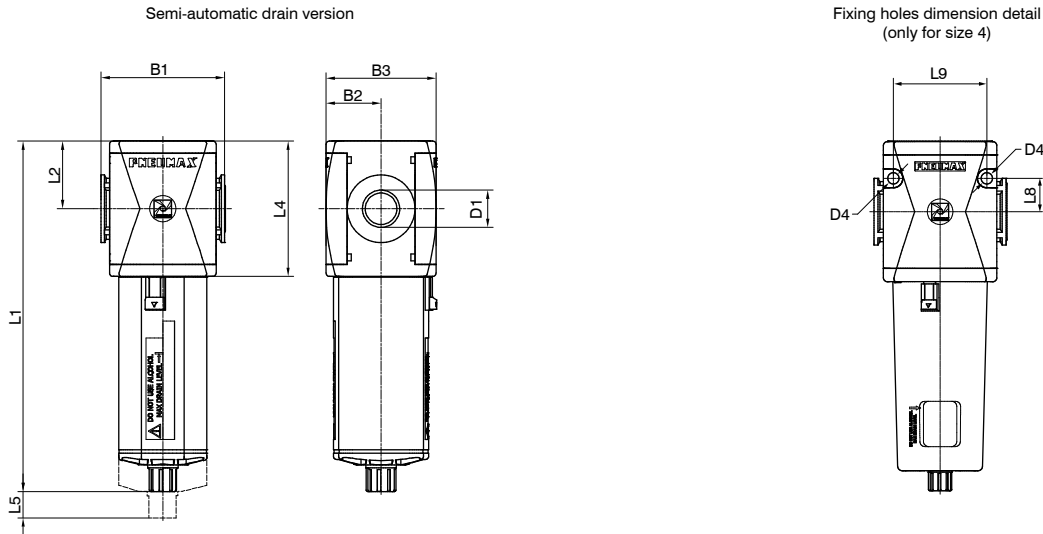
Size 3



Size 4

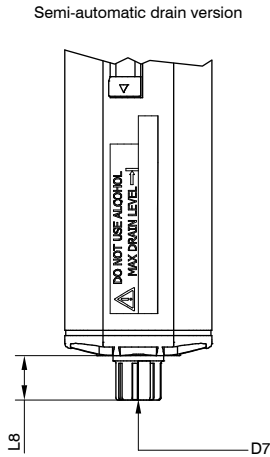


Dimensions



| Model  | B1 | B2   | B3 | D1                         | D4  | L1 - Bowl material |       | L2   | L4  | L5  | L8 | L9 |
|--------|----|------|----|----------------------------|-----|--------------------|-------|------|-----|-----|----|----|
|        |    |      |    |                            |     | Technopolymer      | Metal |      |     |     |    |    |
| #173.. | 73 | 32,5 | 65 | G3/8"<br>G1/2"<br>1/2" NPT | /   | 207,2              | 209,5 | 40   | 80  | 65  | /  | /  |
| #174.. | 99 | 44   | 88 | G1"<br>1" NPT              | 8,5 | 262                | 264,5 | 52,5 | 105 | 103 | 25 | 70 |

Variable dimensions



| Model                | L8 - Bowl material |       | D7                         |
|----------------------|--------------------|-------|----------------------------|
|                      | Technopolymer      | Metal |                            |
| Semi-automatic drain | 15,7               | 18    | Plastic hose connector Ø 6 |