

# Technical Data

## Automatic filters >

### > Horizontal Screen Filter STF Series SF 400 Hydraulic



#### DESCRIPTION:

##### Application

- Horizontal, automatic screen filter for agriculture

##### Specifics

- Maximum pressure: 10 bar (other: on request)
- Minimum working pressure: 2 bar
- Fittings: flanged
- Wastewater output: 2"
- Filtering element: 100 micron (140 mesh) standard
- Backwash control system by differential time and pressure

##### Features

- Water input pre-filtering bucket
- Unit control supply: 220V Ac - battery (4x1,5V)
- Hydraulic safety-related control

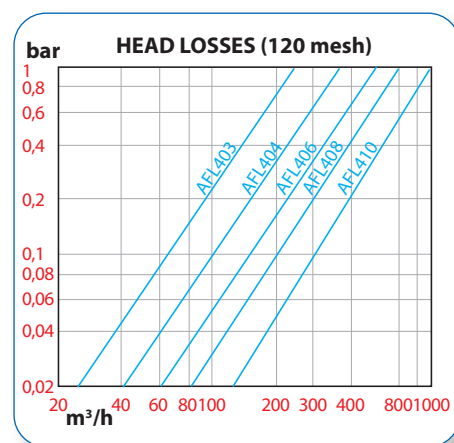
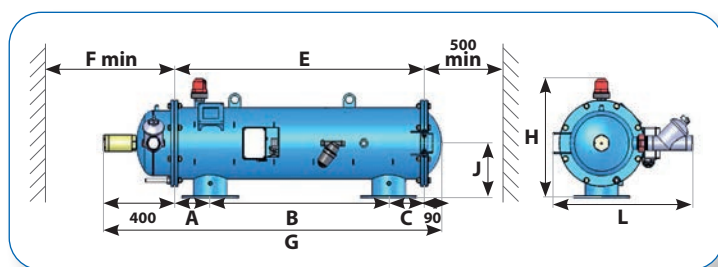
##### Materials

- Filter body: epoxy/polyester painted steel
- Filtering screen support: co-pressed polypropylene
- Bucket reinforce structure: stainless steel sheet

| Code   | Filtering area cm <sup>2</sup> | Q <sub>nom</sub> m <sup>3</sup> /h | Q <sub>working</sub> m <sup>3</sup> /h and water quality |        |     | It consumption per washing |
|--------|--------------------------------|------------------------------------|----------------------------------------------------------|--------|-----|----------------------------|
|        |                                |                                    | High                                                     | Medium | Low |                            |
| AFL403 | 1.600                          | 110                                | 60                                                       | 50     | 35  | 25                         |
| AFL404 | 3.200                          | 150                                | 100                                                      | 75     | 55  | 49                         |
| AFL406 | 4.800                          | 200                                | 160                                                      | 135    | 95  | 110                        |
| AFL408 | 6.400                          | 260                                | 230                                                      | 180    | 120 | 178                        |
| AFL410 | 8.000                          | 350                                | 270                                                      | 200    | 150 | 238                        |

| Code   | Ø <sub>flange</sub> | Q <sub>nom</sub> m <sup>3</sup> /h |
|--------|---------------------|------------------------------------|
| AFL403 | 3" - IN/OUT DN80    | 110                                |
| AFL404 | 4" - IN/OUT DN100   | 150                                |
| AFL406 | 6" - IN/OUT DN100   | 200                                |
| AFL408 | 8" - IN/OUT DN150   | 260                                |
| AFL410 | 10" - IN/OUT DN150  | 350                                |

Note: electrical SF 400 available on request



#### DIMENSIONS MM

| Code   | A   | B     | C   | E     | F     | G     | H   | J   | L   |
|--------|-----|-------|-----|-------|-------|-------|-----|-----|-----|
| AFL403 | 156 | 360   | 196 | 712   | 500   | 1.202 | 599 | 275 | 705 |
| AFL404 | 111 | 700   | 106 | 987   | 690   | 1.477 | 599 | 275 | 705 |
| AFL406 | 181 | 700   | 181 | 1.262 | 970   | 1.752 | 599 | 275 | 705 |
| AFL408 | 231 | 1.100 | 206 | 1.537 | 1.240 | 2.027 | 599 | 275 | 705 |
| AFL410 | 231 | 1.100 | 211 | 1.812 | 1.520 | 2.302 | 599 | 275 | 705 |

# Technical Data

## Automatic filters >

### > Horizontal Screen Filter STF Series SF 200 Electrical



#### DESCRIPTION:

#### Application

- Horizontal, automatic screen filter for agriculture

#### Specifics

- Maximum pressure: 10 bar (other: on request)
- Minimum working pressure: 1 bar
- Fittings: flanged
- Wastewater output: 2"
- Filtering element: 100 micron (140 mesh) standard
- Backwash control system by differential time and pressure

#### Features

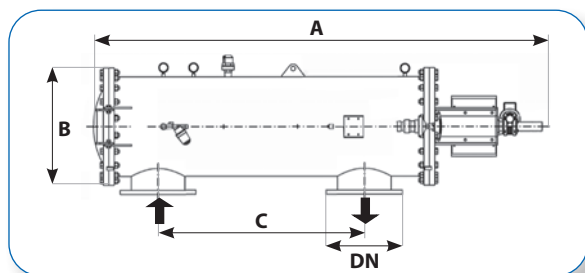
- Electric engine: 220V/400V - 0,5 Cv
- Control unit supply: 220V Ac
- Hydraulic safety-related control

#### Materials

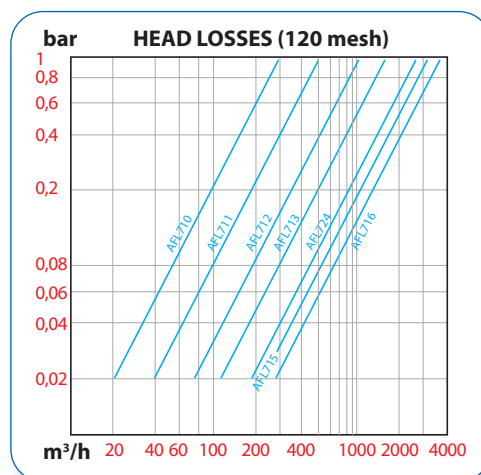
- Filter body: epoxy/polyester painted steel
- Filtering screen support: stainless steel
- Bucket reinforce structure: stainless steel sheet

| Code   | Filtering area cm <sup>2</sup> | Q <sub>nom</sub> m <sup>3</sup> /h | Q <sub>working</sub> m <sup>3</sup> /h and water quality |        |     | It consumption per washing |
|--------|--------------------------------|------------------------------------|----------------------------------------------------------|--------|-----|----------------------------|
|        |                                |                                    | High                                                     | Medium | Low |                            |
| AFL710 | 2.200                          | 95                                 | 60                                                       | 48     | 34  | 35                         |
| AFL711 | 4.390                          | 180                                | 110                                                      | 90     | 70  | 70                         |
| AFL712 | 6.900                          | 350                                | 215                                                      | 173    | 129 | 105                        |
| AFL713 | 9.400                          | 590                                | 320                                                      | 256    | 192 | 140                        |
| AFL724 | 11.900                         | 900                                | 580                                                      | 464    | 348 | 175                        |
| AFL715 | 14.700                         | 1.000                              | 700                                                      | 560    | 420 | 140                        |
| AFL716 | 19.150                         | 1.350                              | 900                                                      | 720    | 540 | 175                        |

| Code   | Ø flange | Q <sub>nom</sub> m <sup>3</sup> /h |
|--------|----------|------------------------------------|
| AFL710 | DN80     | 95                                 |
| AFL711 | DN100    | 180                                |
| AFL712 | DN150    | 350                                |
| AFL713 | DN200    | 590                                |
| AFL724 | DN250    | 900                                |
| AFL715 | DN300    | 1.000                              |
| AFL716 | DN350    | 1.350                              |



| Code   | Model   | Dimensions |     |       |     |
|--------|---------|------------|-----|-------|-----|
|        |         | A          | B   | C     | DN  |
| AFL710 | SFE 203 | 1.625      | 554 | 360   | 80  |
| AFL711 | SFE 204 | 2.140      | 554 | 770   | 100 |
| AFL712 | SFE 206 | 2.415      | 554 | 1.000 | 150 |
| AFL713 | SFE 208 | 2.690      | 554 | 1.100 | 200 |
| AFL724 | SFE 210 | 2.965      | 554 | 1.370 | 250 |
| AFL715 | SFE 212 | 2.690      | 780 | 1.100 | 300 |
| AFL716 | SFE 214 | 2.965      | 780 | 1.370 | 350 |

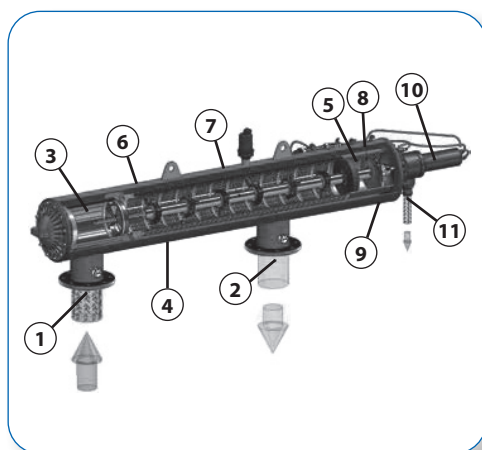


# Technical Data

## Automatic filters >

### PRINCIPLE OF OPERATION

- The dirty water flows through the filter inlet into the filtration area.
- The water passes through a roughing screen to protect the self-cleaning mechanism and the thinnest filter mesh from large particles.
- The water then passes through the fine filter screen.
- Dirt particles are trapped by the fine screen while clean water flows through the filter outlet.
- The trapped particles form a layer on the surface of the screen.
- By increasing the thickness of the layer, the resistance to flow increases, we will therefore have a corresponding increase in the pressure differential between inlet and outlet.
- After a certain period of use, the layer of dirt must be removed.
- When the pressure differential reaches the predetermined level (0.5 bar) the filter control unit starts the washing cycle by opening the drain valve.
- The system generates a helical movement along the screen to suck up the dirt particles trapped by the screen.
- The captured particles are discharged from the exhaust.



1. Input
2. Outlet
3. Prefilter
4. Modular filter element
5. Turbine room
6. Nozzles
7. Nozzle support axis
8. Turbine
9. Piston axis
10. Piston
11. Discharge