

## Coarsefilter

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### Series ACF



## Data-Sheet

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**DN 50 (2") – DN 600 (24")**

Stand 02.2018



## General

The ACF was developed as a special filter for protection of pumps, pipe systems and process equipment against big particles. The filter has a special construction and combines flowpatterns and turbulence for cleaning of a wedge wire filter-element. The filtration direction is from inside to outside. The cleaning is by the liquid itself and can be made manually or automatic. The cleaning cycle only takes 5 seconds. When the solids are heavy or sticky, the separating mechanism can be assisted by a scraper mechanism. A pneumatic cylinder moves a mechanical scraper over a wedge wire filter element in an axial direction. The difficult backwashable dirt as there are: fibres, flakes of granulat or organic waste, will be shoved to the outlet and drained away through the flush valve.

## Main Features

- ACF is constructed in SS316L and can be cleaned with light acids
- High quality 316L grade stainless steel baskets with large filtration areas resulting in low pressure drops
- Compact design for space saving.
- Quick release filter covers and knobs for easy maintenance.
- Max. Operation pressure : 10 bar Type M002 - M010  
: 6 bar Type M012 - M024
- Max. Operation temperature : 80 °C Type M002 - M010,  
: 60 °C Type M012 – M024  
(higher on request)
- Available baskets : 0,25 - 5 mm (other on request)
- Seals: : NBR

## Options

- Range of extras allowing filter to be customised.
- Visual/Electrical differential pressure indicators are available.

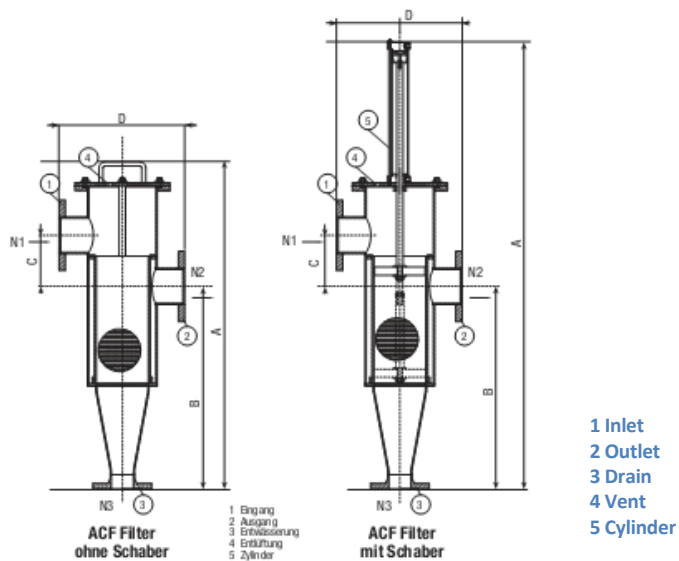
## APPLICATION AREAS

- Prefiltration of landfill leachate and water from the digester
- Wastewater
- Granulate filtration
- Surface water intake
- Protection of pumps, pipes, heat exchangers
- Prefiltration for fine filters
- Processwater
- Wash installations of vegetables, potatoes and bulbs
- Cooling-water
- Prefiltration waste water treatment



ACF Filter without Scraper

ACF Filter with Scraper



| Model<br>ACF with Scraper | ACF002P                        | ACF004P | ACF006P | ACF008P | ACF010P | ACF012P | ACF016P |
|---------------------------|--------------------------------|---------|---------|---------|---------|---------|---------|
| N1 Inlet (PN 10)          | DN 50                          | DN 100  | DN 150  | DN 200  | DN 250  | DN 300  | DN 400  |
| N2 Outlet (PN 10)         | DN 50                          | DN 100  | DN 150  | DN 200  | DN 250  | DN 300  | DN 400  |
| N3 Drain (PN 10)          | DN 50                          | DN 65   | DN 65   | DN 80   | DN 80   | DN 100  | DN 100  |
| Max. Flow* (m³/h)         | 25                             | 60      | 110     | 210     | 275     | 400     | 650     |
| Max. Pressure             | 10 bar                         |         |         |         |         | 6 bar   |         |
| Max. Temperature          | 80 °C                          |         |         |         |         | 60 °C   |         |
| Filtration degree         | 0,25 – 5 mm (other on request) |         |         |         |         |         |         |
| Filtration area(cm²)      | 1030                           | 2060    | 3090    | 4050    | 5405    | 6035    | 9050    |
| Diameter housing          | 8"                             | 8"      | 8"      | 12"     | 12"     | 750 mm  | 750 mm  |
| Basket length (mm)        | 200                            | 400     | 600     | 600     | 800     | 400     | 600     |
| Dimension A (mm)          | 1030                           | 1430    | 1595    | 1680    | 2105    | 1700    | 2150    |
| Dimension B (mm)          | 490                            | 645     | 725     | 770     | 960     | 760     | 860     |
| Dimension C (mm)          | 160                            | 160     | 330     | 330     | 380     | 400     | 600     |
| Dimension D (mm)          | 400                            | 400     | 500     | 600     | 600     | 1100    | 1100    |

| Model<br>ACF without Scraper | ACF002                         | ACF004 | ACF006 | ACF008 | ACF010 | ACF012 | ACF016 | ACF024 |
|------------------------------|--------------------------------|--------|--------|--------|--------|--------|--------|--------|
| N1 Inlet (PN 10)             | DN 50                          | DN 100 | DN 150 | DN 200 | DN 250 | DN 300 | DN 400 | DN 600 |
| N2 Outlet (PN 10)            | DN 50                          | DN 100 | DN 150 | DN 200 | DN 250 | DN 300 | DN 400 | DN 600 |
| N3 Drain (PN 10)             | DN 50                          | DN 65  | DN 65  | DN 80  | DN 80  | DN 100 | DN 100 | DN 150 |
| Max. Flow* (m³/h)            | 25                             | 80     | 150    | 300    | 400    | 600    | 1000   | 2000   |
| Max. Pressure                | 10 bar                         |        |        |        |        | 6 bar  |        |        |
| Max. Temperature             | 80 °C                          |        |        |        |        | 60 °C  |        |        |
| Filtration degree            | 0,25 – 5 mm (other on request) |        |        |        |        |        |        |        |
| Filtration area (cm²)        | 1030                           | 2060   | 3090   | 4050   | 5405   | 6035   | 9050   | 17584  |
| Diameter housing             | 8"                             | 8"     | 8"     | 12"    | 12"    | 750 mm | 750 mm | 30"    |
| Basket length (mm)           | 200                            | 400    | 600    | 600    | 800    | 400    | 600    | 1000   |
| Dimension A (mm)             | 850                            | 1050   | 1300   | 1375   | 1700   | 1700   | 2150   | 2750   |
| Dimension B (mm)             | 490                            | 645    | 725    | 770    | 960    | 760    | 860    | 1410   |
| Dimension C (mm)             | 160                            | 160    | 330    | 330    | 380    | 400    | 600    | 510    |
| Dimension D (mm)             | 400                            | 400    | 500    | 600    | 600    | 1100   | 1100   | 1350   |

\*Capacity is depending on dirtload, working pressure and slotsize.

## General safety instructions



To prevent accidents, the installation, connection and commissioning of the electrical components may only be carried out by authorized and qualified personnel.



**Note:**

1. The flush volume is added to the flow volume.
2. The backwash pipe is to be laid against loss and pressure-free.
3. When installed in open air, the filter must be protected from frost.

## GEFA Certificates

### ISO 9001 - OHSAS 18001 - ISO 14001

Zusätzlich zum Qualitätsmanagementsystem **ISO 9001** hat die GEFA Processtechnik GmbH jetzt auch für die Bereiche Arbeitsschutz (**OHSAS 18001**) und Umweltmanagement (**ISO 14001**) ein sichtbares Zeichen:



Die **OHSAS 18001** und **ISO 14001** Zertifizierungen sind weltweit anerkannte Standards mit dem Fokus auf Personenschutz, Arbeitssicherheit, Gesundheitsvorsorge und Umweltschutz.