



**irritec**<sup>®</sup> Filtration  
*don't wait for rain*<sup>®</sup> Catalogue

***Through its direct presence and widespread international sales network, Irritec<sup>®</sup> follows farmers around the world, assisting them in the choice, design, installation and use of the most appropriate irrigation systems.***



Fresno  
USA

Valdosta  
USA

Querétaro  
MEXICO



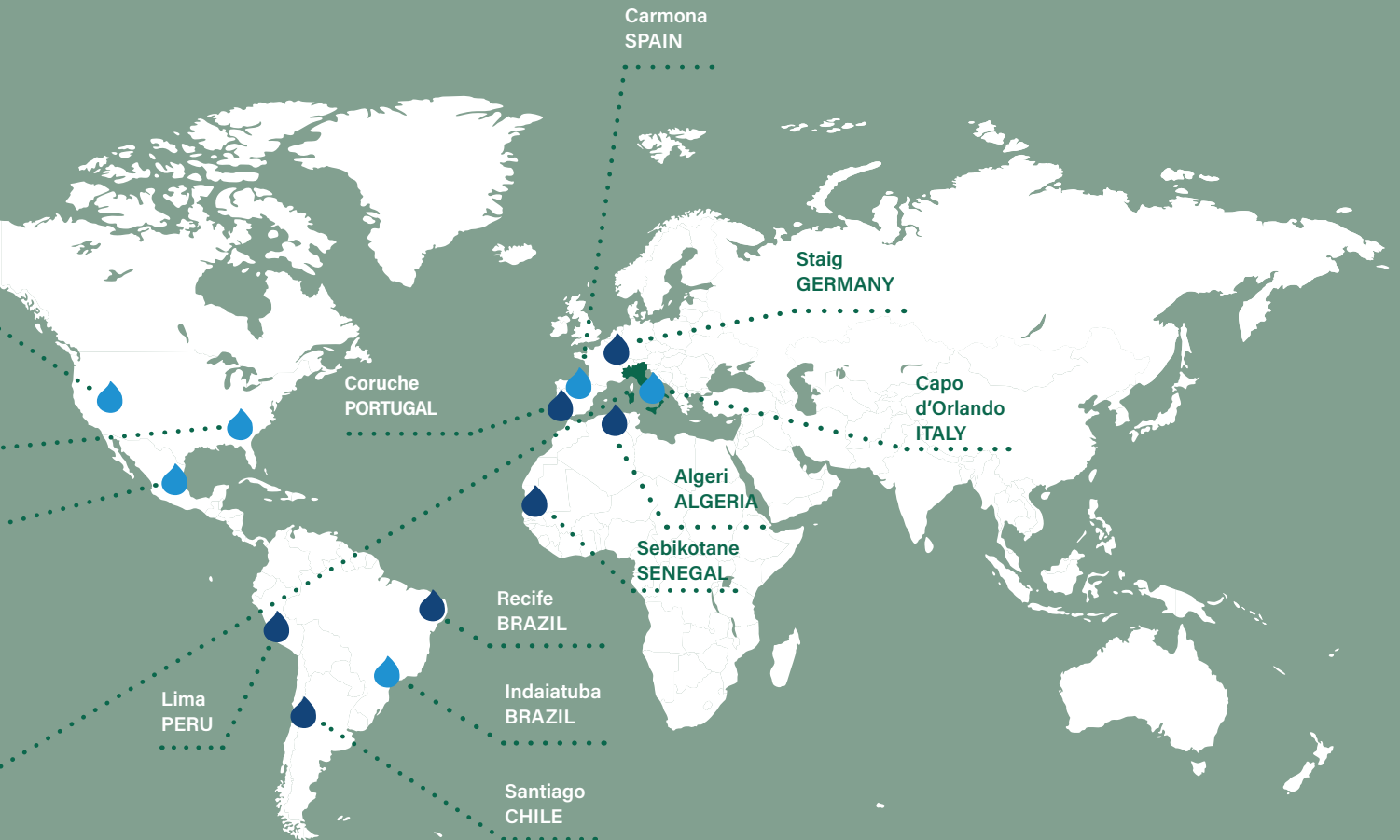
PRODUCTION AND SALES SITES



SALES OFFICES



LOGISTICS CENTRES



since

**1974**

**irritec**

*A global brand  
established in Sicily*

**16**



*Production and  
commercial sites*

**+100**



*Countries in the world*

**>800**



*Professionals  
worldwide*

*We make life easier for those who take care of the plants, for work and for passion. We work to ensure that every drop is used as well as possible, avoiding the waste of the resources*

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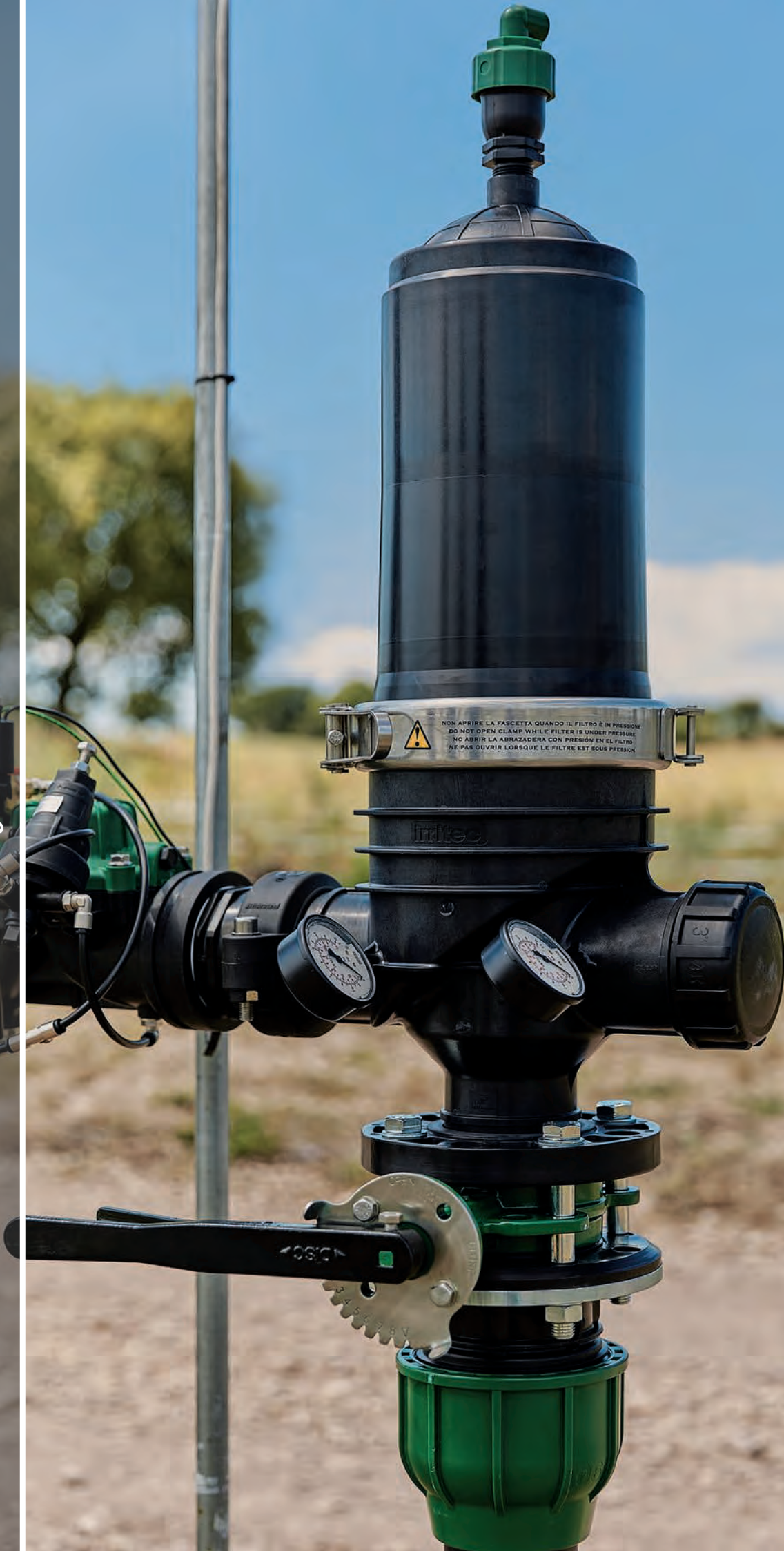
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## **Filtration** | Manual plastic models

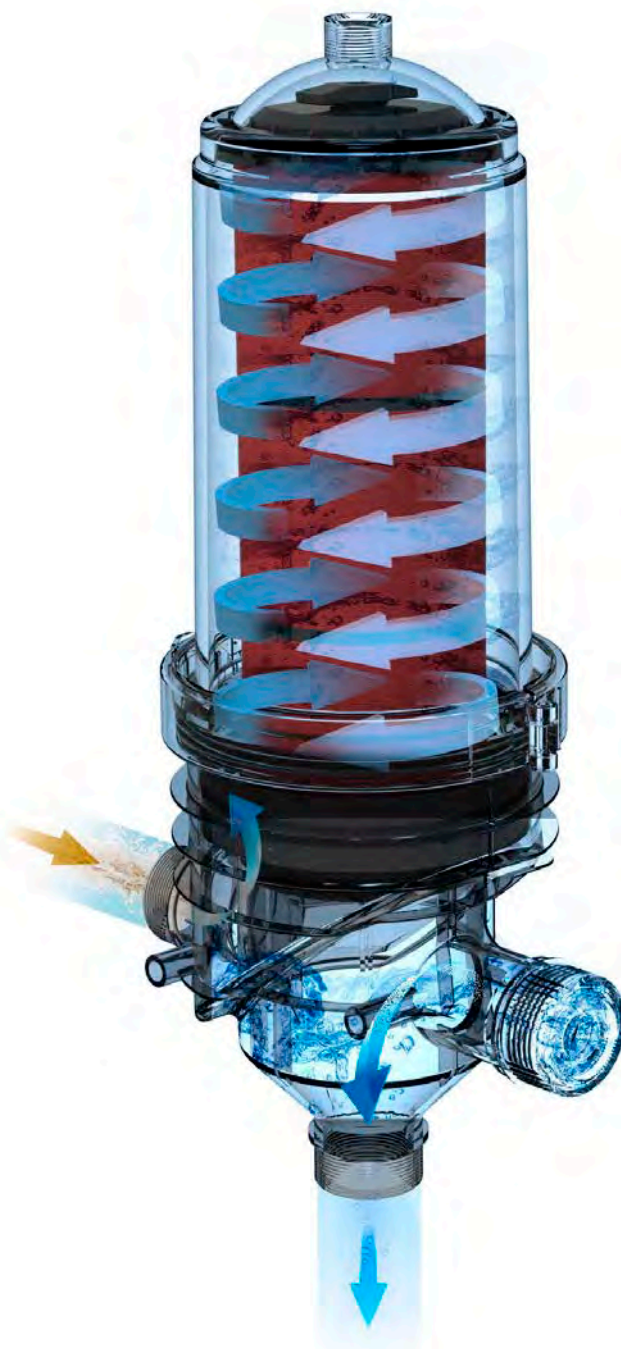
*Irritec's range of plastic filters covers all the requirements of modern irrigation systems. The range of models is characterised by great practicality and robustness. Irrigation system protection is guaranteed by the reliability of all the filtering elements available. Manual plastic filters are used in a wide range of applications:*

*from the compact in-line filters ideal for residential irrigation (installation into a valve box) to the large filters of the Rotofilters lines ideal for agricultural irrigation of any surface area (secondary and sector filtration).*





# ROTO Filters™



**Flow rate**  
Up to 100 m<sup>3</sup>/h



**Filtering Surface**  
850 - 3960 cm<sup>2</sup>



**Diameters**  
2" - 4"



## Filtration Degree (mesh)

Standard filtration degree: 120 mesh

**75**  
(200 micron)

**120**  
(130 micron)

**155**  
(100 micron)

## Advantages

- ✓ Easy to **install and maintain**
- ✓ **Irritec Rotodisk:** improves filtration efficiency and delays filter clogging
- ✓ **Extensive range** of models and optionals available

## Options



Cartridge

stainless steel clamp

nylon ring nut

Closing system

M2 / M5

V2 / V5

W2 / W5

Couplings

## ROTO DISK

### Rotodisk Technology

Thanks to the baffles at the base, the "Rotodisk" filtering element generates a centrifugal force that keeps some of the solids away from the filtering cartridge, delaying clogging of the filter.



# ROTO Filters™

## General technical specifications

### General Specifications

|                            |  |
|----------------------------|--|
| CONNECTION TYPE            | Male threaded (BSP/NPT and/or Grooved) |
|                            | Flanged (only DHF and DIF models)      |
| FILTERING CARTRIDGE        | Stainless steel screen                 |
|                            | Discs                                  |
|                            | Rotodisk                               |
| CLOSING SYSTEM             | Stainless Steel Clamp or Ring Nut      |
| DISCHARGE                  | Female Thread 3/4" BSP                 |
| PRESSURE GAUGE CONNECTIONS | Female threads 1/4" BSP                |






### Construction materials

|  |  |
|--|--|
| BODY                                       | Reinforced polyamide   |
| COVER                                      | Reinforced polyamide   |
| FILTERING ELEMENT                          | Stainless steel screen:<br>Polypropylene + stainless steel screen<br>Poly screen: Polypropylene + Polyester screen<br>Discs: Polypropylene discs and structure |
| TIGHTENING RING NUT<br>(mod. TGG, THG TIG) | Reinforced polyamide   |
| CLOSING CLAMP<br>(mod. TGF, THF & TIF)     | Stainless Steel AISI 304   |

### Conditions of use

|                 |                |
|-----------------|----------------|
| PH RANGE        | 4<pH<11        |
| MAX TEMPERATURE | 60 °C / 140 °F |
| MAX PRESSURE    | 10 bar at 20°C |

## Selecting the correct model

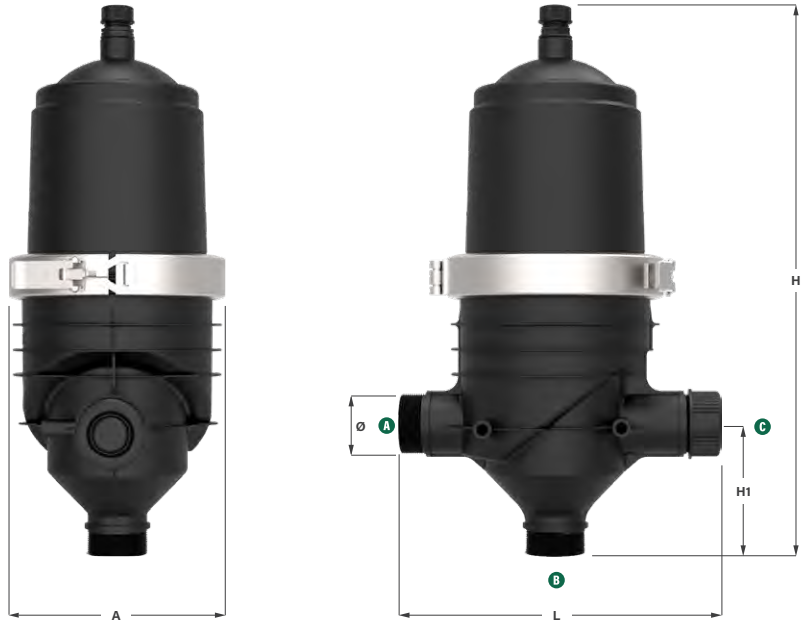
| DIAMETER           | 2"  |   | 3"  |   | 4"  |      |
|--------------------|---|---|---|---|---|------|
|                    | TG*   | TH*   | TI*   | DHF   | DIF   |      |
| MODEL              |  |  |  |  |  |      |
| FILTRATION DEGREE  | 75 - 120 - 155 mesh ( 200 - 130 - 100 micron)                                       |   |   |   |   |      |
| CLOSING MECHANISM  | Nylon ring nut - Stainless Steel Clamp  |   |   | Stainless Steel Clamp   |   |      |
| MAXIMUM FLOW RATE  | 30 m³/h   | 50 m³/h   |   | 100 m³/h  |   |      |
| FILTERING SURFACE  | 960 cm² (850 screen)  | 1470 cm² (1290 screen)  | 1980 cm² (1720 screen)  | 2940 cm² (2580 screen)  | 3960 cm² (3440 screen)  |      |
| FILTERING CAPACITY | MEDIUM  | HIGH  | MEDIUM  | GOOD  | VERY HIGH   | GOOD |
| Applications       | Primary Filtration (Good quality well water)  |   |   |   |   |      |
|                    | Secondary Filtration (Safety and/or sector filters)                                 |   |   |   |   |      |
|                    | Primary Filtration (Good quality well water)  |   |   |   |   |      |

**TGG - TGF**



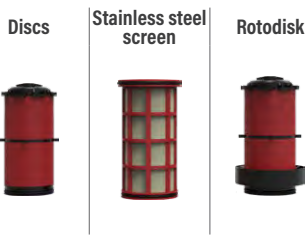
**Description**

2" filter with compact filtering element. Small footprint and possibility of in-line or 90° installation. Stainless Steel screen, Disc or Rotodisk filtering elements. Closing system with 2 options: stainless steel clamp (mod. TGF) or reinforced polyamide Ring Nut (mod. TGG). Its compact size makes it ideal for use as a sector filter.



| Diameter | Closure               | Filtering Element      | Code          | PN | Maximum flow rate (m³/h) | Filtering Surface (cm²) | L (mm)                | A (mm) | H (mm) | H1 (mm) | Weight (kg) |
|----------|-----------------------|------------------------|---------------|----|--------------------------|-------------------------|-----------------------|--------|--------|---------|-------------|
| 2"       | Ring nut              | stainless steel screen | IFTGGGixyyFON | 10 | 30                       | 830                     | 310 (M)<br>327 (V, W) | 250    | 510    | 130     | 4.5         |
|          |                       | discs                  | IFTGGGDxxyFON |    |                          | 960                     |                       |        |        |         | 5.6         |
|          |                       | Rotodisk               | IFTGGGExyyFON |    |                          | 960                     |                       |        |        |         | 5.7         |
|          | Stainless Steel Clamp | stainless steel screen | IFTGFGixyyFON |    |                          | 830                     |                       |        |        |         | 4.2         |
|          |                       | discs                  | IFTGFGDxxyFON |    |                          | 960                     |                       |        |        |         | 5.3         |
|          |                       | Rotodisk               | IFTGFGExyyFON |    |                          | 960                     |                       |        |        |         | 5.4         |

**Filtering Cartridge**



**Connections**

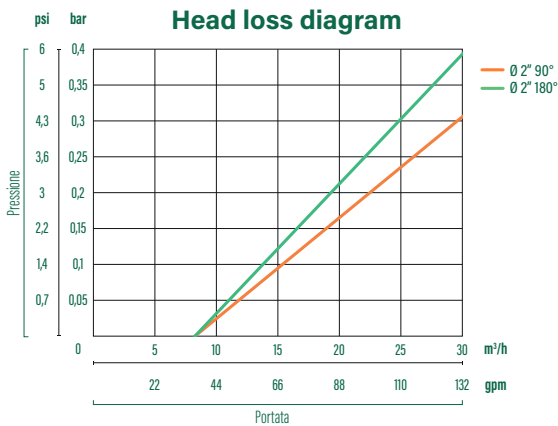
yy: connections (replace with:)

| Ref. | A   | B   | C   |
|------|-----|-----|-----|
| M2   | BSP | BSP | BSP |
| V2   | VIC | VIC | BSP |
| W2   | VIC | BSP | VIC |
| M5   | NPT | NPT | NPT |
| V5   | VIC | VIC | NPT |
| W5   | VIC | NPT | VIC |

**Filtration degree (mesh)**

x: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    | Red    |
| L    | 120  | 130    | Yellow |
| N    | 155  | 100    | Yellow |



TGG



TGF

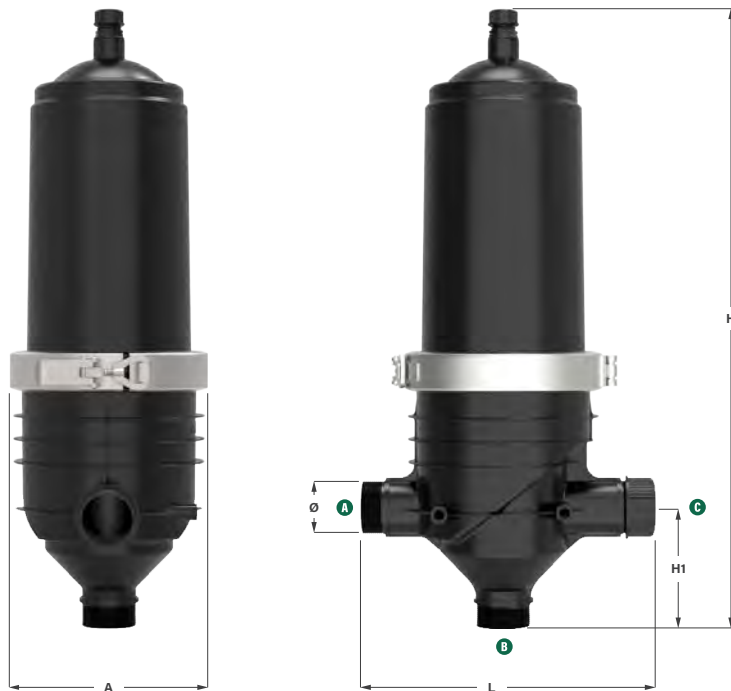


# THG - THF

**ROTO**Filters™

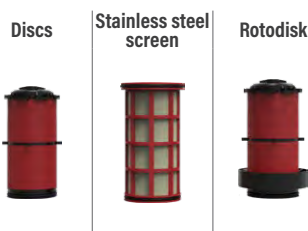
## Description

Available in 2" or 3" versions. Both in-line or 90° installation possible. Stainless Steel screen, Disc or Rotodisk filtering elements. Closing system with 2 options: stainless steel clamp (mod. THF) or reinforced polyamide Ring Nut (mod. THG).



| Diameter | Closure               | Filtering Element      | Code          | PN | Maximum flow rate m³/h | Filtering Surface cm² | L (mm)                | A (mm) | H (mm) | H1 (mm) | Weight (kg) |
|----------|-----------------------|------------------------|---------------|----|------------------------|-----------------------|-----------------------|--------|--------|---------|-------------|
| 2"       | Ring nut              | Stainless Steel Screen | IFTHGGIxyyFON | 10 | 30                     | 1290                  | 310 (M)<br>327 (V, W) | 250    | 660    | 130     | 5.5         |
|          |                       | Discs                  | IFTHGGDxyyFON |    |                        | 1470                  |                       |        |        |         | 6.9         |
|          |                       | Rotodisk               | IFTHGGExyyFON |    |                        | 1470                  |                       |        |        |         | 7           |
|          | Stainless Steel Clamp | Stainless Steel Screen | IFTHFGIxyyFON |    |                        | 1290                  |                       |        |        |         | 5.2         |
|          |                       | Discs                  | IFTHFGDxyyFON |    |                        | 1470                  |                       |        |        |         | 6.6         |
|          |                       | Rotodisk               | IFTHFGExyyFON |    |                        | 1470                  |                       |        |        |         | 6.7         |
| 3"       | Ring nut              | Stainless Steel Screen | IFTHGIxxyyFON | 10 | 50                     | 1290                  | 310 (M)<br>327 (V, W) | 250    | 670    | 140     | 5.7         |
|          |                       | Discs                  | IFTHGIDxyyFON |    |                        | 1470                  |                       |        |        |         | 7.1         |
|          |                       | Rotodisk               | IFTHGIExyyFON |    |                        | 1470                  |                       |        |        |         | 7.2         |
|          | Stainless Steel Clamp | Stainless Steel Screen | IFTHFIxxyyFON |    |                        | 1290                  |                       |        |        |         | 5.4         |
|          |                       | Discs                  | IFTHFIDxyyFON |    |                        | 1470                  |                       |        |        |         | 6.8         |
|          |                       | Rotodisk               | IFTHFIExyyFON |    |                        | 1470                  |                       |        |        |         | 6.9         |

## Filtering Cartridge



## Connections

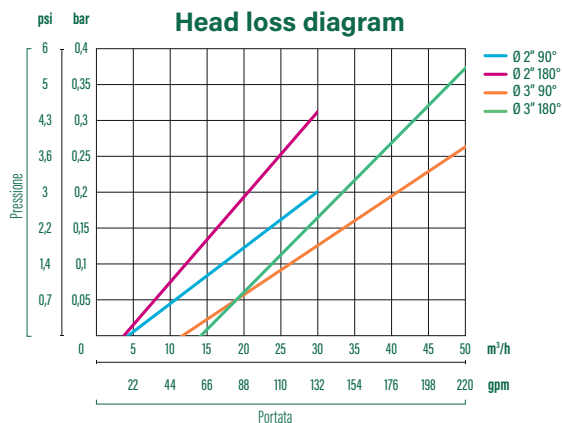
yy: connections (replace with:)

| Ref. | A   | B   | C   |
|------|-----|-----|-----|
| M2   | BSP | BSP | BSP |
| V2   | VIC | VIC | BSP |
| W2   | VIC | BSP | VIC |
| M5   | NPT | NPT | NPT |
| V5   | VIC | VIC | NPT |
| W5   | VIC | NPT | VIC |

## Filtration degree (mesh)

x: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    |        |
| L    | 120  | 130    |        |
| N    | 155  | 100    |        |

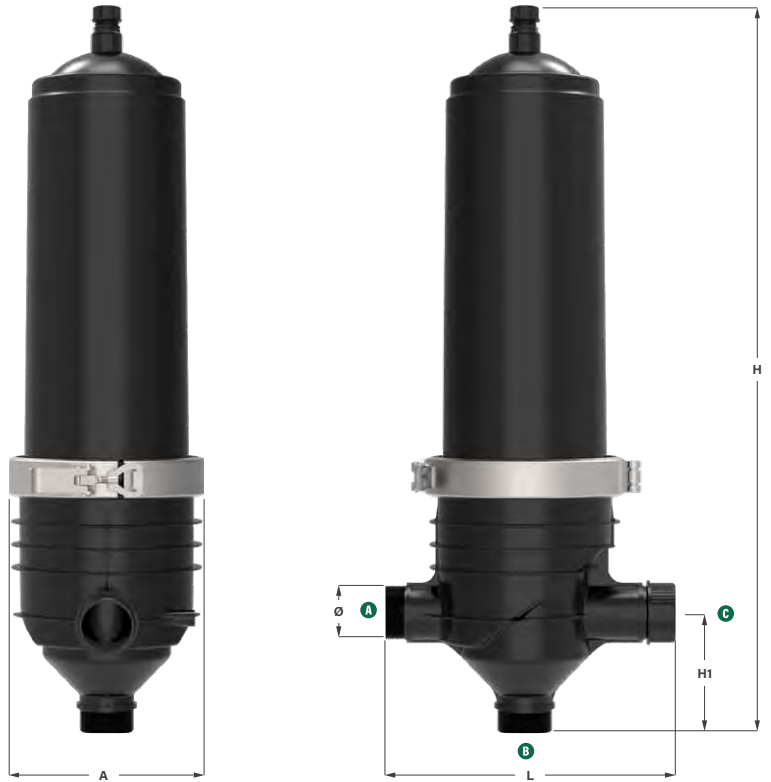


**TIG - TIF**



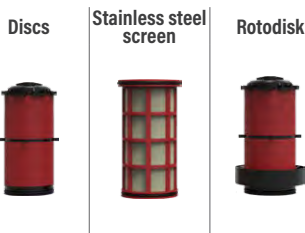
**Description**

3" filter with large surface area filtering element (1980 cm<sup>2</sup>). Both in-line or 90° installation possible. Closing system with 2 options: stainless steel clamp (mod. TIF) or reinforced Polyamide Ring Nut (mod. TIG) - Its high security filter makes it ideal for use as a sand media (in combination with a hydrocyclone or quartzite filter).



| Diameter | Closure               | Filtering Element      | Code           | PN | Maximum flow rate (m <sup>3</sup> /h) | Filtering Surface (cm <sup>2</sup> ) | L (mm)                | A (mm) | H (mm) | H1 (mm) | Weight (kg) |
|----------|-----------------------|------------------------|----------------|----|---------------------------------------|--------------------------------------|-----------------------|--------|--------|---------|-------------|
| 2"       | Ring nut              | Stainless steel screen | IFTIGGIxyyFON  | 10 | 30                                    | 1720                                 | 310 (M)<br>327 (V, W) | 250    | 780    | 130     | 6.3         |
|          |                       | Discs                  | IFTIGGDxyyFON  |    |                                       | 1980                                 |                       |        |        |         | 8.1         |
|          |                       | Rotodisk               | IFTIGGExyyFON  |    |                                       | 1720                                 |                       |        |        |         | 8.2         |
|          | Stainless Steel Clamp | Stainless steel screen | IFTIFGIxyyFON  |    |                                       | 1720                                 |                       |        |        |         | 6           |
|          |                       | Discs                  | IFTIFGDxyyFON  |    |                                       | 1980                                 |                       |        |        |         | 7.8         |
|          |                       | Rotodisk               | IFTIFGExyyFON  |    |                                       | 1720                                 |                       |        |        |         | 7.9         |
| 3"       | Ring nut              | Stainless steel screen | IFTIGLIxyyFON  |    | 50                                    | 790                                  |                       |        | 140    | 6.5     |             |
|          |                       | Discs                  | IFTIGDIxyyFON  |    |                                       |                                      |                       |        |        | 1980    | 8.3         |
|          |                       | Rotodisk               | IFTIGIExyyFON  |    |                                       |                                      |                       |        |        | 1720    | 8.4         |
|          | Stainless Steel Clamp | Stainless steel screen | IFTIFLIxyyFON  |    |                                       |                                      |                       |        |        | 1720    | 6.2         |
|          |                       | Discs                  | IFTIFIDIxyyFON |    |                                       |                                      |                       |        |        | 1980    | 8           |
|          |                       | Rotodisk               | IFTIFIExyyFON  |    |                                       |                                      |                       |        |        | 1980    | 8.1         |

**Filtering Cartridge**



**Connections**

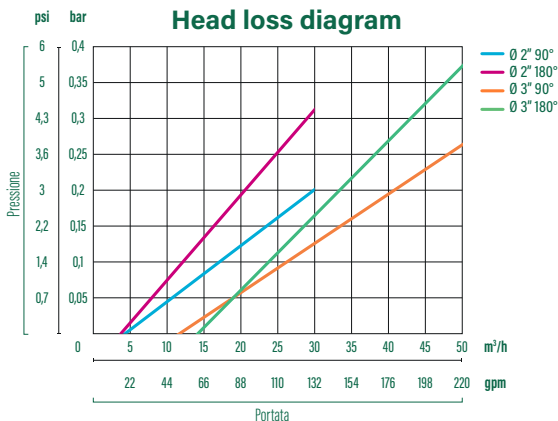
yy: connections (replace with:)

| Ref. | A   | B   | C   |
|------|-----|-----|-----|
| M2   | BSP | BSP | BSP |
| V2   | VIC | VIC | BSP |
| W2   | VIC | BSP | VIC |
| M5   | NPT | NPT | NPT |
| V5   | VIC | VIC | NPT |
| W5   | VIC | NPT | VIC |

**Filtration degree (mesh)**

x: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    |        |
| L    | 120  | 130    |        |
| N    | 155  | 100    |        |



TIG



TIF

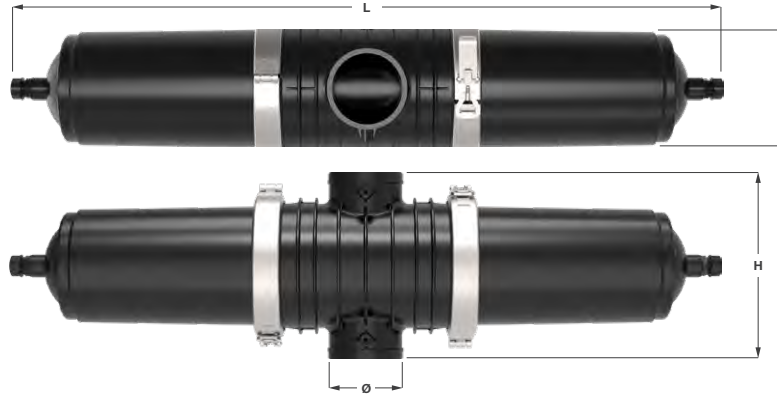


**DHF**



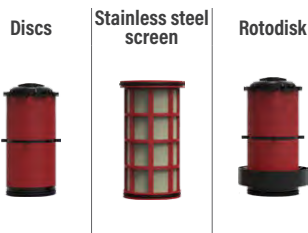
**Description**

Filter with double filtering element, available in 3" and 4" sizes. Also available with flanged connection (DN80 DN100). Its very high filtering capacity makes it ideal for use as a main filter for well water or as a back-up filter (downstream from a quartzite filter) for surface water.



| Diameter    | Filtering Element      | Code   | PN | Maximum flow rate (m³/h) | Filtering Surface (cm²) | L (mm) | A (mm) | H (mm) | Weight (kg)      |     |                    |                  |
|-------------|------------------------|--|----|--------------------------|-------------------------|--------|--------|--------|------------------|-----|--------------------|------------------|
| 3" / DN80   | Stainless steel screen | IFDHFli $\color{red}{x}$ $\color{blue}{yy}$ FON  | 10 | 50                       | 2580                    | 1020   | 250    | 330    | 12 (M, W) 14 (F) |     |                    |                  |
|             | Discs                  | IFDHFliD $\color{red}{x}$ $\color{blue}{yy}$ FON |    |                          | 2940                    |        |        |        | 15 (M, W) 17 (W) |     |                    |                  |
|             | Rotodisk               | IFDHFliE $\color{red}{x}$ $\color{blue}{yy}$ FON |    |                          | 2580                    |        |        |        | 12 (M, W) 14 (F) |     |                    |                  |
| 4" / DN 100 | Stainless steel screen | IFDHFli $\color{red}{x}$ $\color{blue}{yy}$ FON  |    | 100                      | 100                     |        |        | 2580   | 1020             | 250 | 345 (M) 390 (W, F) | 12 (M, W) 14 (F) |
|             | Discs                  | IFDHFliD $\color{red}{x}$ $\color{blue}{yy}$ FON |    |                          |                         |        |        | 2940   |                  |     |                    | 15 (M, W) 17 (W) |
|             | Rotodisk               | IFDHFliE $\color{red}{x}$ $\color{blue}{yy}$ FON |    |                          |                         |        |        | 2580   |                  |     |                    | 12 (M, W) 14 (F) |

**Filtering Cartridge**



**Connections**

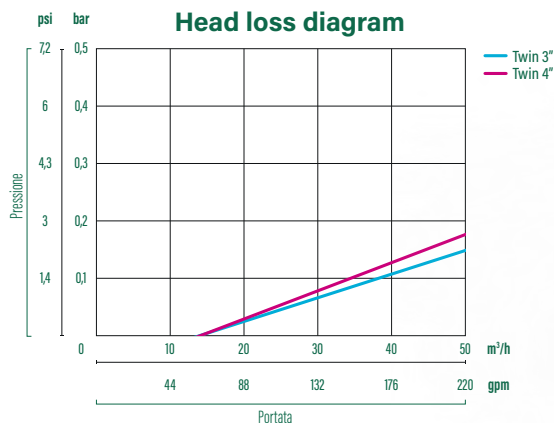
$\color{blue}{yy}$ : connections (replace with:)

| Ref. | A   | B   |
|------|-----|-----|
| M2   | BSP | BSP |
| M5   | NPT | NPT |
| W0   | VIC | VIC |
| F0   | FLA | FLA |

**Filtration degree (mesh)**

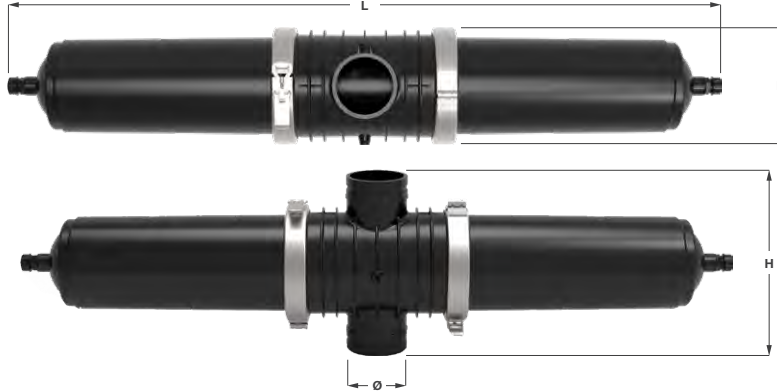
$\color{red}{x}$ : mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    |        |
| L    | 120  | 130    |        |
| N    | 155  | 100    |        |



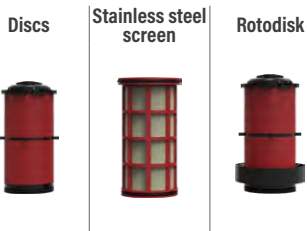
**Description**

4" filter with large surface area double filtering element (2 x 1980 cm<sup>2</sup>). Also available with flanged connection DN100. Its very high flow rate and filtering capacity makes it ideal for use as a main filter for well water or as a back-up filter (downstream from a quartzite filter) for surface water.



| Diameter    | Filtering Element      | Code          | PN | Maximum flow rate (m <sup>3</sup> /h) | Filtering Surface (cm <sup>2</sup> ) | L (mm) | A (mm) | H (mm)                | Weight (kg)      |
|-------------|------------------------|---------------|----|---------------------------------------|--------------------------------------|--------|--------|-----------------------|------------------|
| 4" / DN 100 | Stainless steel screen | IFDIFLixyyFON | 10 | 100                                   | 3440                                 | 1265   | 250    | 345 (M)<br>390 (W, F) | 13 (M, W) 15 (F) |
|             | Discs                  | IFDIFLDxxyFON |    |                                       | 3960                                 |        |        |                       | 16 (M, W) 18 (F) |
|             | Rotodisk               | IFDIFLExyyFON |    |                                       |                                      |        |        |                       |                  |

**Filtering Cartridge**



**Connections**

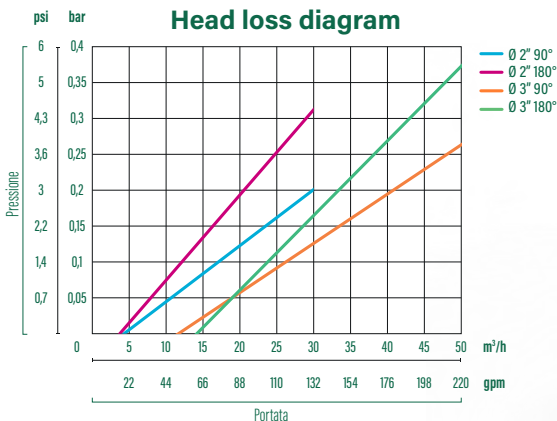
yy: connections (replace with:)

| Ref. | A   | B   |
|------|-----|-----|
| M2   | BSP | BSP |
| M5   | NPT | NPT |
| W0   | VIC | VIC |
| F0   | FLA | FLA |

**Filtration degree (mesh)**

x: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    |        |
| L    | 120  | 130    |        |
| N    | 155  | 100    |        |





# iFilters™



**Flow rate**  
Up to 50 m<sup>3</sup>/h



**Filtering Surface**  
100 - 1515 cm<sup>2</sup>



**Diameters**  
3/4" - 3"



## Filteration Degree (mesh)

Standard filtration degree: 120 mesh (130 micron)

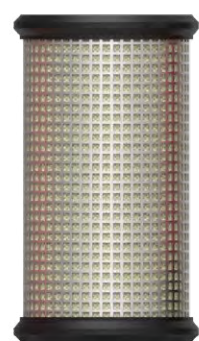
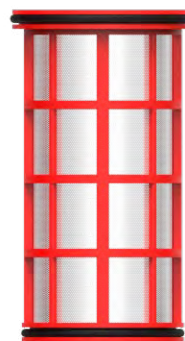
**20**  
(800 micron)



**200**  
(80 micron)

## Advantages

- ✓ Constructed with durable, **high strength plastics**
- ✓ **Small footprint** and highly versatile.
- ✓ Excellent **value for money**





# iFilters™

## General technical specifications

### General Specifications

|                                   |  |
|-----------------------------------|--|
| <b>CONNECTION TYPE</b>            | Male threaded (BSP/NPT)<br>Female threaded (Swivel BSP)  |
| <b>FILTERING CARTRIDGE</b>        | Stainless steel screen   |
|                                   | Discs  |
|                                   | Polyester Screen   |
| <b>DISCHARGE</b>                  | Male Threaded 3/4" BSP (mod. YCV-YDV-YEV-YFV)<br>Female Threaded 3/4" BSP (mod. YGG-YGF-YHG-YHF) |
| <b>PRESSURE GAUGE CONNECTIONS</b> | Male Threaded 1/4" BSP (mod. YDV-YEV-YFV)<br>Female Threaded 1/4" BSP (mod. YGG-YGF-YHG-YHF)     |

### Construction materials

|   |  |
|---|--|
| <b>BODY</b>                                 | Polypropylene  |
| <b>COVER</b>                                | Polypropylene  |
| <b>FILTERING ELEMENT</b>                    | Stainless steel screen:<br>Polypropylene + stainless steel screen<br>Poly screen: Polypropylene + Polyester screen<br>Discs: Polypropylene discs and structure |
| <b>TIGHTENING RING NUT (mod. YGG - YHG)</b> | Reinforced polyamide   |
| <b>CLOSING CLAMP (mod. YGF - YHF)</b>       | Stainless Steel AISI 304   |
| <b>GASKETS</b>                              | NBR  |



### Conditions of use

|                        |                          |
|------------------------|--------------------------|
| <b>PH RANGE</b>        | 4<pH<11                  |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F           |
| <b>MAX PRESSURE</b>    | 8 bar (YFV - YG* - YH*)  |
|                        | 10 bar (YCV - YDV - YEV) |

## Selecting the correct model

| DIAMETER     | 3/4" - 1"  |  | 1" 1/4   | 1 1/2"  | 2"   | 3"   |
|--------------|--|--|--|---|--|--|
| <b>MODEL</b> | <br>YCV | <br>YDV | <br>YEV | <br>YFV | <br>YGG - YGF | <br>YHG - YHF |

|                               |                          |   |                       |                       |                       |  |                             |
|-------------------------------|--------------------------|---|-----------------------|-----------------------|-----------------------|--|-----------------------------|
| <b>General Specifications</b> | <b>FILTRATION DEGREE</b> | 20 - 30 - 50 - 75 - 100 - 120 - 155 - 200 mesh      |                       |                       |                       | 75 - 120 - 155 mesh                    |                             |
|                               |                          | 800 - 500 - 300 - 200 - 160 - 130 - 100 - 80 micron |                       |                       |                       | 200 - 130 - 100 micron                 |                             |
|                               | <b>CLOSING MECHANISM</b> | Polypropylene cover                                 |                       |                       |                       | Nylon ring nut - Stainless Steel Clamp |                             |
|                               | <b>MAXIMUM FLOW RATE</b> | 5 m³/h  |                       | 10 m³/h               | 20 m³/h               | 25 m³/h                                |                             |
|                               | <b>FILTERING SURFACE</b> | 100 cm²   | 170 cm² (screen: 160) | 260 cm² (screen: 220) | 500 cm² (screen: 450) | 960 cm² (830-990 screen)               | 1470 cm² (1290-1515 screen) |
| <b>FILTERING CAPACITY</b>     | LOW                      | MEDIUM  | MEDIUM                | MEDIUM                | GOOD                  | VERY HIGH MEDIUM                       |                             |

|                     |   |  |   |
|---------------------|---|--|---|
| <b>Applications</b> |  | Accessory filtration (tanks, machinery, etc.)                                      | Secondary filtration (security and/or sector filters) |
|                     |  | Secondary filtration (Valve Boxes)<br>Primary Filtration (Good quality well water) | Primary Filtration - well water / high quality        |

**YHG - YHF**



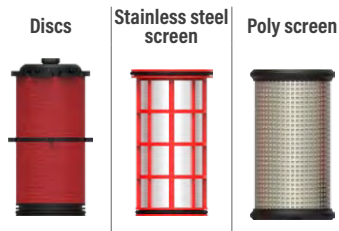
**Description**

Large in-line filter, available in 2" or 3" sizes. Disc, stainless steel screen or polyester screen filtering elements. Closing system with 2 options: stainless steel clamp (mod. YHF) or reinforced Polyamide Ring Nut (mod. YHG). Ideal as a sector filter or as a primary filter in good quality well water applications



| Diameter | Closure               | Filtering Element      | Code          | PN | Maximum flow rate (m <sup>3</sup> /h) | Filtering Surface (cm <sup>2</sup> ) | L (mm) | A (mm) | H (mm) | Weight (kg) |     |
|----------|-----------------------|------------------------|---------------|----|---------------------------------------|--------------------------------------|--------|--------|--------|-------------|-----|
| 2"       | Ring nut              | Stainless Steel Screen | IFYHGGIxyyCON | 8  | 25                                    | 1290                                 | 400    | 250    | 370    | 3.9         |     |
|          |                       | Polyester Screen       | IFYHGGPxyyCON |    |                                       | 1515                                 |        |        |        | 4           |     |
|          |                       | Discs                  | IFYHGGDxyyCON |    |                                       | 1470                                 |        |        |        | 5.4         |     |
|          | Stainless Steel Clamp | Stainless Steel Screen | IFYHFGIxyyCON |    |                                       | 1290                                 |        |        |        | 3.6         |     |
|          |                       | Polyester Screen       | IFYHFGPxyyCON |    |                                       | 1515                                 |        |        |        | 3.7         |     |
|          |                       | Discs                  | IFYHFGDxyyCON |    |                                       | 1470                                 |        |        |        | 5.1         |     |
| 3"       | Ring nut              | Stainless Steel Screen | IFYHGIxyyCON  |    | 8                                     | 50                                   | 1290   | 446    | 250    | 370         | 4.1 |
|          |                       | Polyester Screen       | IFYHGIPxyyCON |    |                                       |                                      | 1515   |        |        |             | 4.2 |
|          |                       | Discs                  | IFYHGIDxyyCON |    |                                       |                                      | 1470   |        |        |             | 5.6 |
|          | Stainless Steel Clamp | Stainless Steel Screen | IFYHFIIxyyCON |    |                                       |                                      | 1290   |        |        |             | 3.8 |
|          |                       | Polyester Screen       | IFYHFIPxyyCON |    |                                       |                                      | 1515   |        |        |             | 3.9 |
|          |                       | Discs                  | IFYHFIDxyyCON |    |                                       |                                      | 1470   |        |        |             | 5.3 |

**Filtering Cartridge**



**Connections**

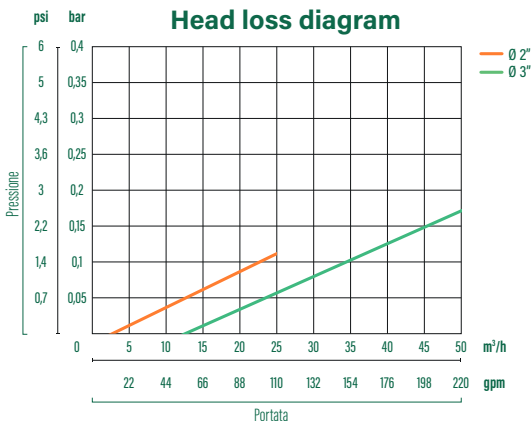
yy: connections (replace with:)

| Ref. | Fittings           |
|------|--------------------|
| M2   | Threaded BSP (M/M) |
| M5   | Threaded NPT (M/M) |

**Filtration degree (mesh)**

x: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    |        |
| L    | 120  | 130    |        |
| N    | 155  | 100    |        |



THG

YHF

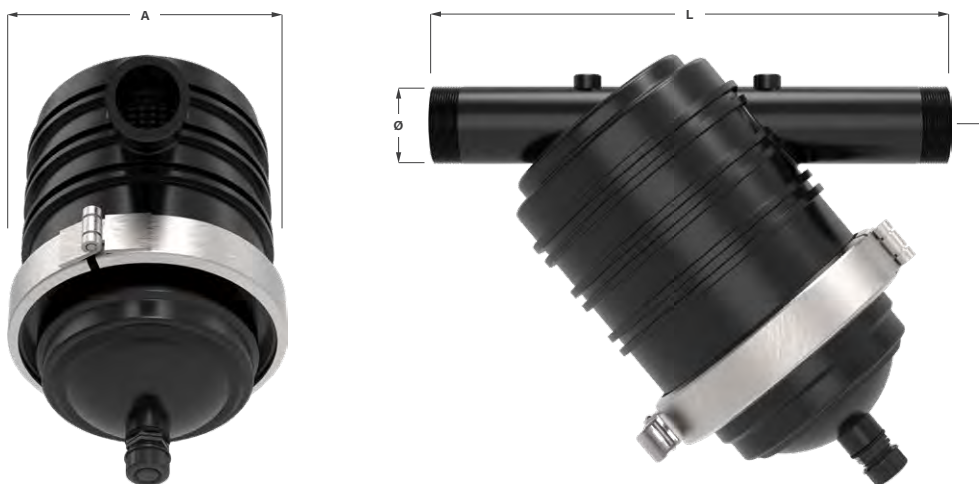


# YGG - YGF



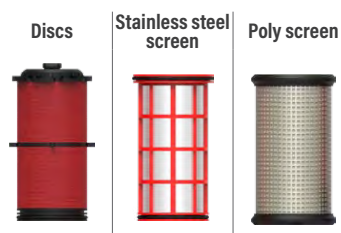
## Description

Compact in-line filter available in 2" size. Disc, stainless steel screen or polyester screen filtering elements. Closing system with 2 options: stainless steel clamp (mod. YGF) or reinforced Polyamide Ring Nut (mod. YGG). Its small footprint makes it ideal for use as a sector filter.



| Diameter | Closure               | Filtering Element      | Code          | PN | Maximum flow rate (m³/h) | Filtering Surface (cm²) | L (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|-----------------------|------------------------|---------------|----|--------------------------|-------------------------|--------|--------|--------|-------------|
| 2"       | Ring nut              | Stainless steel screen | IFYGGGlxyyCON | 8  | 25                       | 830                     | 400    | 250    | 260    | 3.6         |
|          |                       | Polyester Screen       | IFYGGGPxyyCON |    |                          | 990                     |        |        |        | 3.5         |
|          |                       | Discs                  | IFYGGGDxyyCON |    |                          | 960                     |        |        |        | 4.4         |
|          | Stainless Steel Clamp | Stainless steel screen | IFYGFGlxyyCON |    |                          | 830                     |        |        |        | 3.3         |
|          |                       | Polyester Screen       | IFYGFGPxyyCON |    |                          | 990                     |        |        |        | 3.2         |
|          |                       | Discs                  | IFYGFGDxyyCON |    |                          | 960                     |        |        |        | 4.1         |

## Filtering Cartridge



## Connections

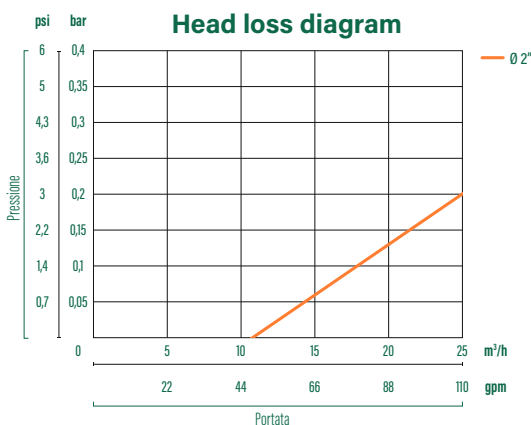
yy: connections (replace with:)

| Ref. | Fittings           |
|------|--------------------|
| M2   | Threaded BSP (M/M) |
| M5   | Threaded NPT (M/M) |

## Filtration degree (mesh)

x: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    |        |
| L    | 120  | 130    |        |
| N    | 155  | 100    |        |



YGG

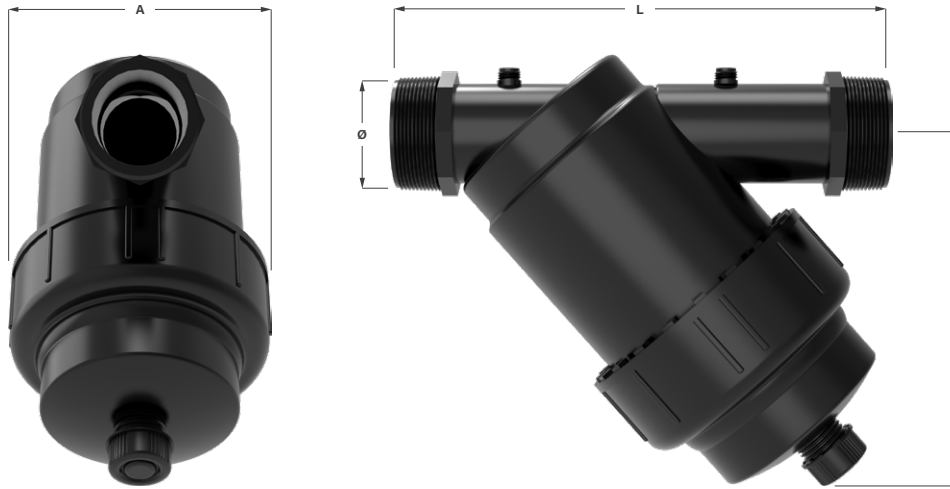


YGF



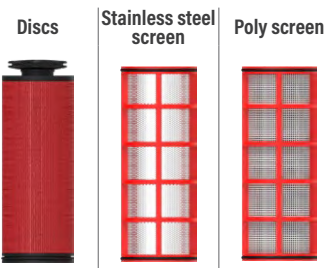
**Description**

Mini version in-line filter, available in 1-1/2" and 2" sizes. Disc, stainless steel screen or polyester screen filtering elements. Small size filter, ideal for secondary filtration applications on small and medium agricultural and residential irrigation systems.



| Diameter | Filtering Element      | Code          | PN | Maximum flow rate (m³/h) | Filtering Surface (cm²) | L (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|------------------------|---------------|----|--------------------------|-------------------------|--------|--------|--------|-------------|
| 1 1/2"   | Stainless steel screen | IFYFVFIxyyCON | 8  | 20                       | 450                     | 258    | 140    | 188    | 0.7         |
|          | Polyester Screen       | IFYFVFPxyyCON |    |                          |                         |        |        |        |             |
|          | Discs                  | IFYFVFDxyyCON |    |                          | 500                     |        |        |        | 1.1         |
| 2"       | Stainless steel screen | IFYFVGIxyyCON |    |                          | 450                     |        |        |        | 0.8         |
|          | Polyester Screen       | IFYFVGPxyyCON |    |                          |                         |        |        |        |             |
|          | Discs                  | IFYFVGDXyyCON |    |                          | 500                     |        |        |        |             |

**Filtering Cartridge**



**Connections**

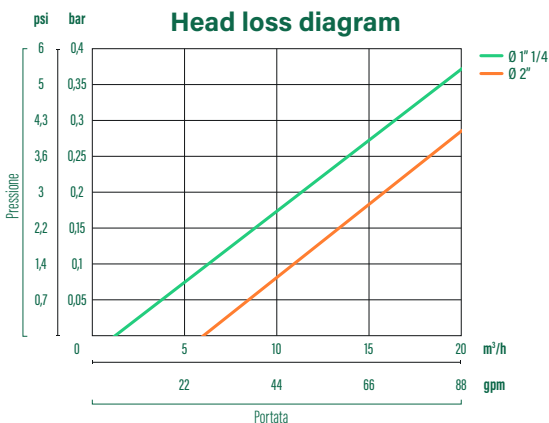
yy: connections (replace with:)

| Ref. | Fittings           |
|------|--------------------|
| M2   | Threaded BSP (M/M) |
| M5   | Threaded NPT (M/M) |

**Filtration degree (mesh)**

x: mesh (replace with:)

| Ref. | Mesh | Micron | Stainless Steel | Poly | Discs | Colour |
|------|------|--------|-----------------|------|-------|--------|
| E    | 20   | 800    | ✓               | ✓    |       |        |
| F    | 30   | 500    | ✓               | ✓    |       |        |
| G    | 50   | 300    | ✓               | ✓    |       |        |
| H    | 75   | 200    | ✓               | ✓    |       |        |
| I    | 100  | 160    | ✓               | ✓    |       |        |
| L    | 120  | 130    | ✓               | ✓    | ✓     |        |
| N    | 155  | 100    | ✓               | ✓    |       |        |
| P    | 200  | 80     | ✓               | ✓    |       |        |

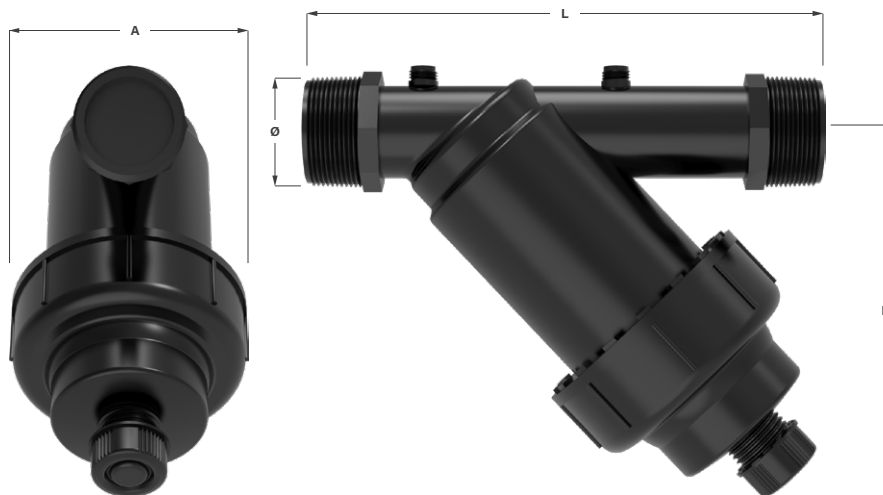


**YEV**

**iFilters**

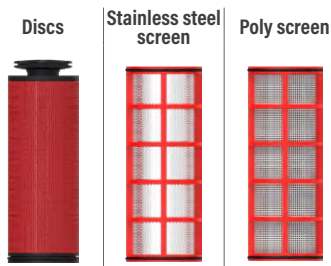
**Description**

Mini version in-line filter, available in 1-1/4" and 1-1/2" sizes. Disc, stainless steel screen or polyester screen filtering elements. Small footprint filter, ideal for filtration applications on small and medium-sized irrigation systems (valve boxes, pumping unit).



| Diameter | Filtering Element      | Code          | PN | Maximum flow rate (m³/h) | Filtering Surface (cm²) | L (mm)             | A (mm) | H (mm) | Weight (kg) |
|----------|------------------------|---------------|----|--------------------------|-------------------------|--------------------|--------|--------|-------------|
| 1 1/4"   | Stainless steel screen | IFYEVEIxyyCON | 10 | 10                       | 220                     | 220                | 103    | 152    | 0.36        |
|          | Polyester Screen       | IFYEVEPxyyCON |    |                          | 260                     |                    |        |        |             |
|          | Discs                  | IFYEVEDxyyCON |    |                          | 220                     |                    |        |        |             |
| 1 1/2"   | Stainless steel screen | IFYEVFIxwwCON |    |                          | 220                     | 220 (M)<br>225 (W) |        |        | 0.37        |
|          | Polyester Screen       | IFYEVFPxwwCON |    |                          | 260                     |                    |        |        |             |
|          | Discs                  | IFYEVFDxwwCON |    |                          | 260                     |                    |        |        |             |

**Filtering Cartridge**



**Connections**

yy: connections (replace with:)

| Ref. | Fittings           |
|------|--------------------|
| M2   | Threaded BSP (M/M) |
| M5   | Threaded NPT (M/M) |

**Connections**

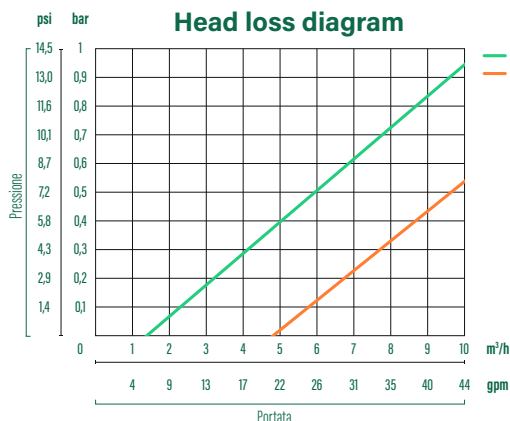
ww: connections (replace with:)

| Ref. | Fittings                  |
|------|---------------------------|
| M2   | Threaded BSP (M/M)        |
| M5   | Threaded NPT (M/M)        |
| W2   | Threaded BSP Swivel (F/F) |

**Filtration degree (mesh)**

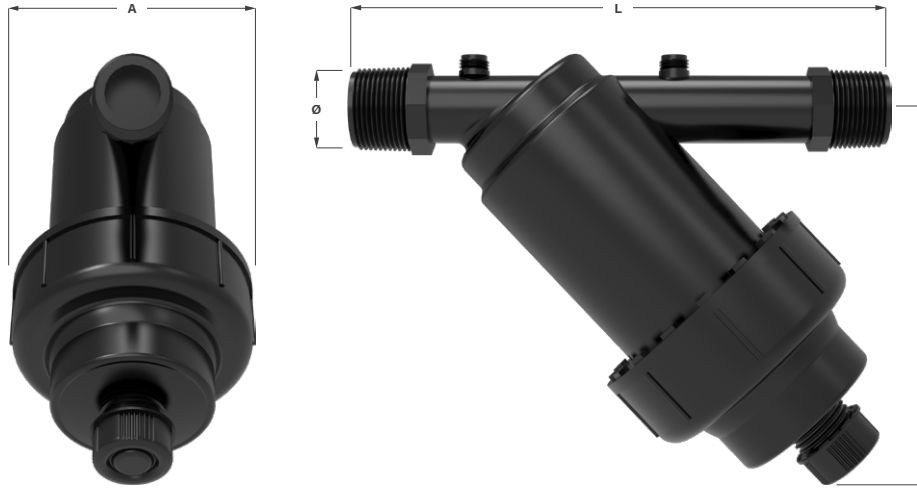
x: mesh (replace with:)

| Ref. | Mesh | Micron | Stainless Steel | Poly | Discs | Colour |
|------|------|--------|-----------------|------|-------|--------|
| E    | 20   | 800    | ✓               | ✓    |       |        |
| F    | 30   | 500    | ✓               | ✓    |       |        |
| G    | 50   | 300    | ✓               | ✓    |       |        |
| H    | 75   | 200    | ✓               | ✓    |       |        |
| I    | 100  | 160    | ✓               | ✓    |       |        |
| L    | 120  | 130    | ✓               | ✓    | ✓     |        |
| N    | 155  | 100    | ✓               | ✓    |       |        |
| P    | 200  | 80     | ✓               | ✓    |       |        |



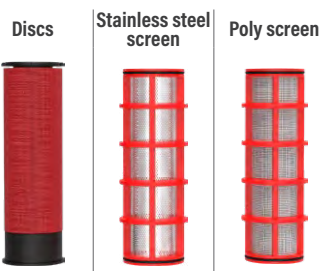
**Description**

Mini version in-line filter, available in 3/4" and 1" sizes. Disc, stainless steel screen or polyester screen filtering elements. Small footprint filter, ideal for filtration applications on small irrigation systems (valve boxes, pumping unit) and for "accessory" filtration (application on tanks, cisterns and machinery).



| Diameter | Filtering Element      | Code           | PN | Maximum flow rate (m³/h) | Filtering Surface (cm²) | L (mm)             | A (mm) | H (mm) | Weight (kg) |
|----------|------------------------|----------------|----|--------------------------|-------------------------|--------------------|--------|--------|-------------|
| 3/4"     | Stainless steel screen | IFYDVCixyyCON  | 10 | 5                        | 160                     | 152                | 84     | 138    | 0.22        |
|          | Polyester Screen       | IFYDVCPxxyCON  |    |                          |                         |                    |        |        |             |
|          | Discs                  | IFYDVCDxxyCON  |    |                          |                         |                    |        |        |             |
| 1"       | Stainless steel screen | IFYVDVixwwCON  |    |                          | 160                     | 152 (M)<br>155 (W) |        |        | 0.23        |
|          | Polyester Screen       | IFYVDVPxwwCON  |    |                          |                         |                    |        |        |             |
|          | Discs                  | IFYVDVDDxwwCON |    |                          | 170                     |                    |        |        |             |

**Filtering Cartridge**



**Connections**

yy: connections (replace with:)

| Ref. | Fittings           |
|------|--------------------|
| M2   | Threaded BSP (M/M) |
| M5   | Threaded NPT (M/M) |

**Connections**

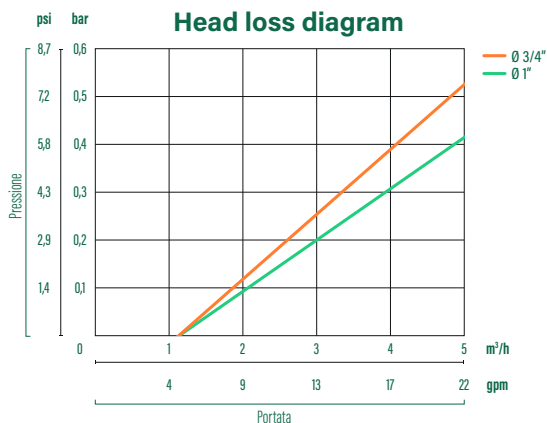
ww: connections (replace with:)

| Ref. | Fittings                  |
|------|---------------------------|
| M2   | Threaded BSP (M/M)        |
| M5   | Threaded NPT (M/M)        |
| W2   | Threaded BSP Swivel (F/F) |

**Filtration degree (mesh)**

x: mesh (replace with:)

| Ref. | Mesh | Micron | Stainless Steel | Poly | Discs | Colour     |
|------|------|--------|-----------------|------|-------|------------|
| E    | 20   | 800    | ✓               | ✓    |       |            |
| F    | 30   | 500    | ✓               | ✓    |       | Green      |
| G    | 50   | 300    | ✓               | ✓    |       | Blue       |
| H    | 75   | 200    | ✓               | ✓    |       |            |
| I    | 100  | 160    | ✓               | ✓    |       | Light Blue |
| L    | 120  | 130    | ✓               | ✓    | ✓     | Red        |
| N    | 155  | 100    | ✓               | ✓    |       | Yellow     |
| P    | 200  | 80     | ✓               | ✓    |       | Black      |

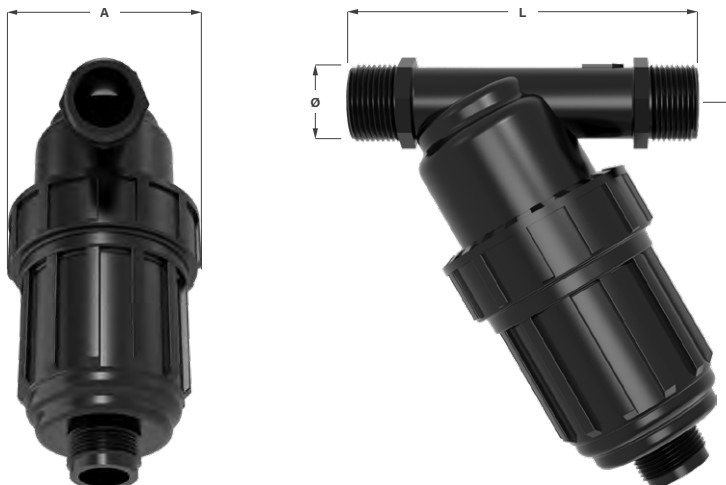


**YCV**

**iFilters**

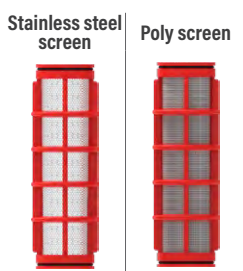
**Description**

Ultra-compact version in-line filter, available in 3/4" and 1" sizes. Filtering elements: stainless steel screen or polyester screen. Extremely small footprint filter, ideal for secondary filtration applications on small residential irrigation systems (Valve boxes) and for "accessory" filtration (application on tanks, cisterns and machinery).



| Diameter | Filtering Element      | Code          | PN | Maximum flow rate (m³/h) | Filtering Surface (cm²) | L (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|------------------------|---------------|----|--------------------------|-------------------------|--------|--------|--------|-------------|
| 3/4"     | Stainless steel screen | IFYCVC1xyySON | 10 | 5                        | 100                     | 123    | 72     | 135    | 0.16        |
|          | Polyester Screen       | IFYCVCpxyySON |    |                          |                         |        |        |        |             |
| 1"       | Stainless steel screen | IFYCVCpxyySON |    |                          |                         |        |        |        |             |
|          | Polyester Screen       | IFYCVCpxyySON |    |                          |                         |        |        |        | 0.17        |

**Filtering Cartridge**



**Connections**

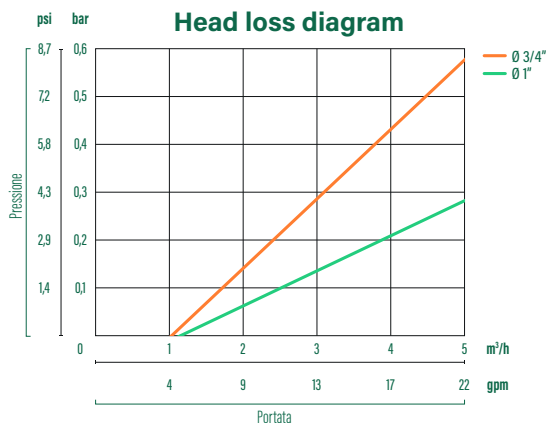
yy: connections (replace with:)

| Ref. | Fittings           |
|------|--------------------|
| M2   | Threaded BSP (M/M) |
| M5   | Threaded NPT (M/M) |

**Filtration degree (mesh)**

x: mesh (replace with:)

| Ref. | Mesh | Micron | Stainless Steel | Poly | Discs | Colour     |
|------|------|--------|-----------------|------|-------|------------|
| E    | 20   | 800    | ✓               | ✓    |       |            |
| F    | 30   | 500    | ✓               | ✓    |       | Green      |
| G    | 50   | 300    | ✓               | ✓    |       | Blue       |
| H    | 75   | 200    | ✓               | ✓    |       | White      |
| I    | 100  | 160    | ✓               | ✓    |       | Light Blue |
| L    | 120  | 130    | ✓               | ✓    | ✓     | Red        |
| N    | 155  | 100    | ✓               | ✓    |       | Yellow     |
| P    | 200  | 80     | ✓               | ✓    |       | Black      |



## HFP

### Description


Centrifugal sand separator (Hydrocyclone) made of plastic material (reinforced polyamide). Available in 2" and 3" sizes. The models are equipped with a large volume collection tank and a manual discharge valve.

### Principle of operation

The water enters the cone laterally in a tangential manner. The centrifugal force generated allows the separation of the sand (carried in the outer part of the flow), which is collected in the lower tank. The central part of the flow (solid-free) flows out of the upper outlet.

### Advantages

- ✓ Centrifugal separator for well or river water containing sand (and other solids of high specific weight) in suspension
- ✓ Plastic construction
- ✓ High-capacity sand collection tank (supplied equipped with purge valve)
- ✓ TPU protection installed at the base of the cone reduces wear caused by the action of sand.

  
**Flow rate**  
15 - 52 m<sup>3</sup>/h

  
**Max Pressure**  
6 Bar

  
**Diameters**  
2" - 3"



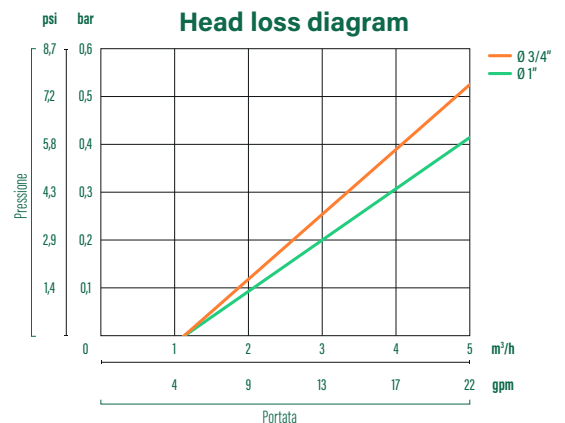
| Couplings | Code          | Ø Body (mm) | Flow rate (m <sup>3</sup> /h) | Capacity container (litres) | H (mm) | H1 (mm) | A (mm) | B (mm) | L (mm) | Weight (kg) |
|-----------|---------------|-------------|-------------------------------|-----------------------------|--------|---------|--------|--------|--------|-------------|
| 2"        | IFHFPG00M2V0N | 206         | 15÷25                         | 8                           | 940    | 808     | 206    | 151    | 395    | 7.6         |
| 3"        | IFHFPI00M2V0N | 248         | 35÷52                         | 10                          | 990    | 868     | 248    | 175    | 482    | 9.6         |

### General Specifications

|                        |                     |
|------------------------|---------------------|
| <b>CONNECTION TYPE</b> | Threaded male (BSP) |
| <b>COLLECTION TANK</b> | Supplied            |
| <b>DISCHARGE</b>       | Manual valve        |
| <b>MAX PRESSURE</b>    | 6 bar               |

### Materials

|                        |                                |
|------------------------|--------------------------------|
| <b>BODY</b>            | Reinforced polyamide           |
| <b>TANK</b>            | Reinforced polyamide           |
| <b>CLOSING ELEMENT</b> | Stainless steel clamp and bolt |
| <b>GASKETS</b>         | NBR                            |







## **Filtration** | Automatic models

*The ROTODISK AUTOMATIC range represents a valid solution for the primary filtration of all types of water in an agricultural setting and large green spaces. The range of models makes it possible to manage water flow rates from 20 to 600 m<sup>3</sup>/h. Fully automatic operation ensures constant efficiency of the irrigation system and*

*eliminates the need for filter maintenance. Disc filtering elements, with their "three-dimensional" filtration, represent the highest guarantee of reliability for your installations.*



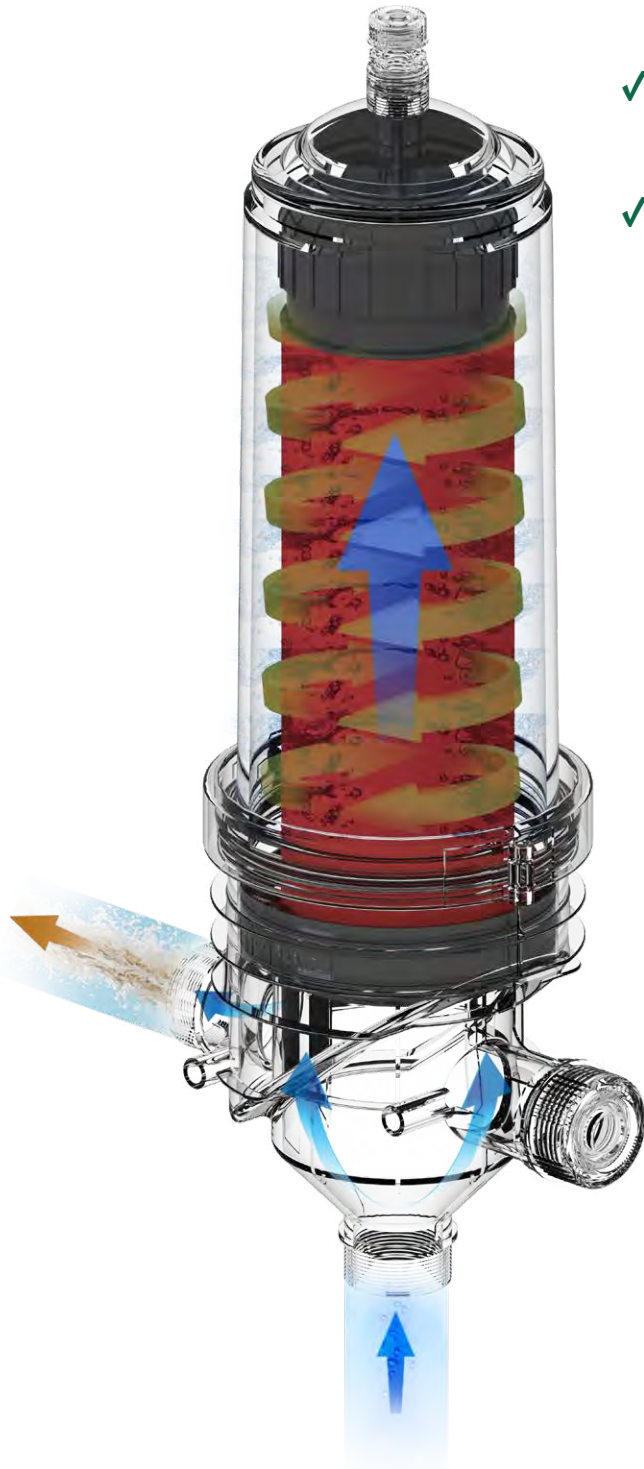


# ROTODISK®

A U T O M A T I C

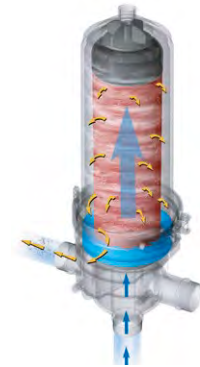
## Advantages

- ✓ **Irritec Rotodisk®**, device that improves filtration efficiency and slows filter clogging.
- ✓ **Self-cleaning filtering element** guarantees highly efficient backwashing and low water consumption.
- ✓ **Maintenance made easy** without the use of special tools



### Filtration

The ROTODISK filtering element generates a centrifugal force that keeps solid particles away from the discs, slowing the rate of clogging. Water passes over the surface of grooved discs and solids are trapped in the filtering element.



### Backwash

Reversing the flow across the filter mass causes the cartridge to decompress and allows the individual discs to separate. The water, through small tangential jets, strikes the surface of the discs, causing them to rotate and ensuring a complete and effective cleaning.



# ROTODISK<sup>®</sup>

A U T O M A T I C

**PRODUCT RANGE: Automatic single and dual head models**



**TAF**

Automatic disc filter

Diameter: 2" -3"

Maximum flow rate: 24 m<sup>3</sup>/h (2") | 32 m<sup>3</sup>/h (3")

Filtration Surface: 1,450 cm<sup>2</sup>

Filtration degree

75 - 120 - 155 mesh | 200 - 130 - 100 micron



**RSL**

In-line automatic disc filter batteries

Automatic disc filter batteries with IN-LINE arrangement. Compact and lightweight, they are ideal for application in small to medium/large systems (up to 190 mc/h) on all types of water.



**DAF**

Double-body automatic disc filter

Diameter: 4"

Maximum flow rate: 64 m<sup>3</sup>/h

Filtration Surface: 2,900 cm<sup>2</sup>

Filtration degree

75 - 120 - 155 mesh | 200 - 130 - 100 micron



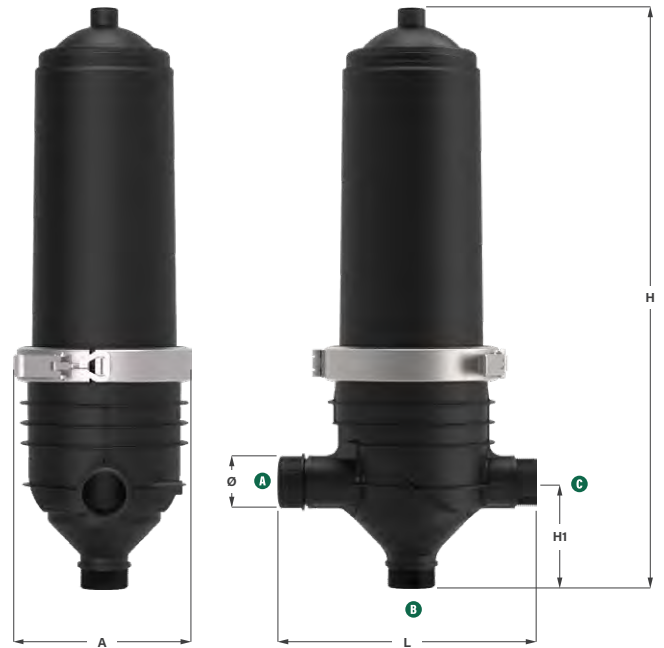
**RDL**

Double body automatic disc filter battery

DOUBLE BODY automatic disc filtration batteries Capable of handling high volumes of water while maintaining great portability and a small footprint. Ideal for large installations (190 - 640 mc/h) on all types of water.

**Description**

Single filtering element automatic Rotodisk disc filter: to implement the backwash system a battery must be assembled, complete with appropriate backwash valves, manifolds (inlet, outlet and discharge) and a filter automation kit.



| Internal | Code                      | PN | Max flow rate (m³/h) | Filtering Surface (cm²) | Min pressure backwash (bar) | Min flow rate backwash (m³/h) | L (mm)                | A (mm) | H (mm) | H1 (mm) | Weight (kg) |
|----------|---------------------------|----|----------------------|-------------------------|-----------------------------|-------------------------------|-----------------------|--------|--------|---------|-------------|
| 2"       | IFTAFGE <sup>xy</sup> FON | 10 | 24                   | 1450                    | 2.8                         | 9                             | 310 (M)<br>327 (V, W) | 250    | 720    | 140     | 8           |
| 3"       | IFTAFIE <sup>xy</sup> FON |    | 32                   |                         |                             |                               |                       |        |        |         |             |

**General Specifications**

|                                   |   |
|-----------------------------------|---|
| <b>CONNECTION TYPE</b>            | Male threaded (BSP/NPT and/or Grooved)  |
| <b>FILTERING CARTRIDGE</b>        | Automatic                               |
| <b>CLOSING SYSTEM</b>             | Stainless Steel Clamp                   |
| <b>DISCHARGE</b>                  | Female Thread 3/4" BSP (not perforated) |
| <b>PRESSURE GAUGE CONNECTIONS</b> | Female threads 1/4" BSP                 |

**Connections**

yy: connections (replace with:)

| Ref. | A   | B   | C   |
|------|-----|-----|-----|
| M2   | BSP | BSP | BSP |
| V2   | VIC | VIC | BSP |
| W2   | VIC | BSP | VIC |
| M5   | NPT | NPT | NPT |
| V5   | VIC | VIC | NPT |
| W5   | VIC | NPT | VIC |

**Filtration degree (mesh)**

x: mesh (replace with:)

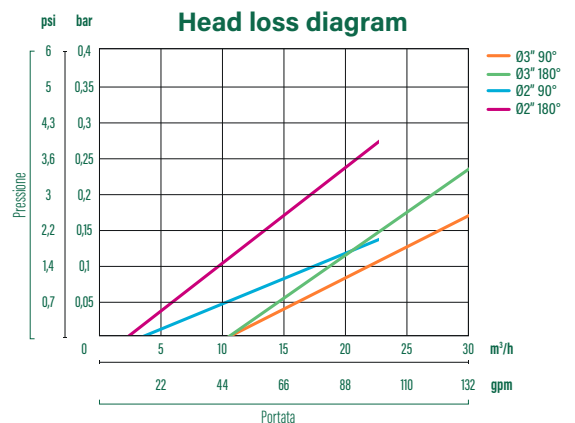
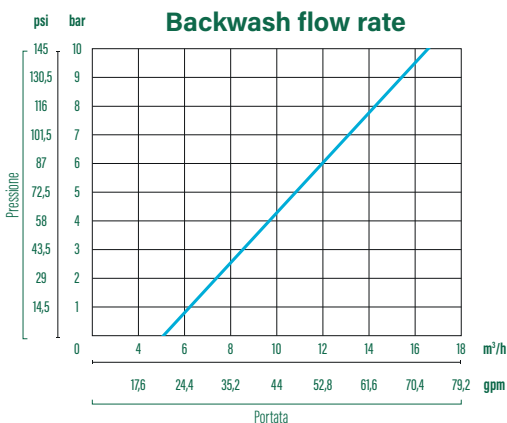
| Ref. | Mesh | Micron | Colour | No. of Discs per filtering cartridge |
|------|------|--------|--------|--------------------------------------|
| H    | 75   | 200    |        | 280                                  |
| L    | 120  | 130    |        | 321                                  |
| N    | 155  | 100    |        | 350                                  |

**Conditions of use**

|                        |                |
|------------------------|----------------|
| <b>PH RANGE</b>        | 4 < pH < 11    |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>    | 10 bar at 20°C |

**Recommended flow rate (m³/h) according to water quality**

| Model | Flow rate Maximum | Medium Quality | Poor Quality | Very poor Quality |
|-------|-------------------|----------------|--------------|-------------------|
| 2"    | 24                | 20             | 17           | 15                |
| 3"    | 32                | 25             | 19           | 15                |



**RSL**

**RGTODISK**  
AUTOMATIC

**Description**

Automatic disc filter batteries with IN-LINE arrangement. Compact and lightweight, they are ideal for primary and secondary filtration in small to medium/large systems (up to 190 m³/h) on all types of water.



**Flow rate**  
24 - 192 m³/h



**Filtering Surface**  
1450 - 8700 cm²



**Diameters**  
2" - 8"



**Filtration Degree (mesh)**

Standard filtration degree: 120 mesh

**75**  
(200 micron)

**120**  
(130 micron)

**155**  
(100 micron)

**Advantages**

- ✓ **Easy to install** and maintain (no tools required for maintenance)
- ✓ Constructed with durable, **high strength plastics**
- ✓ **Small footprint** and highly versatile.








**Construction materials**

|                            |                                 |
|----------------------------|---------------------------------|
| <b>BACKWASH VALVES</b>     | Reinforced polyamide            |
| <b>VICTAULIC COUPLINGS</b> | Cast iron                       |
| <b>FEET AND SUPPORTS</b>   | Painted Steel   Stainless Steel |
| <b>MANIFOLDS</b>           | High-density polyethylene       |

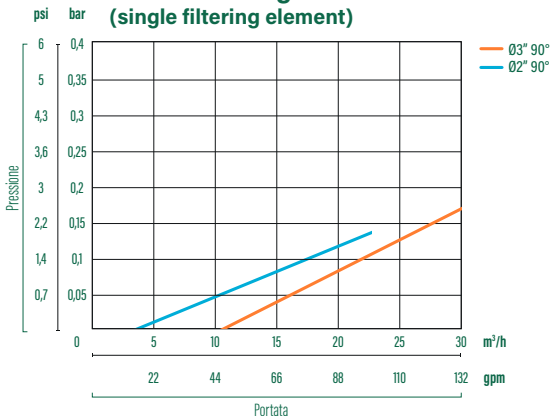
**Conditions of use**

|                        |                |
|------------------------|----------------|
| <b>PH RANGE</b>        | 4<pH<11        |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>    | 10 bar at 20°C |

## Selecting the correct model

| MANIFOLDS DIAMETER           |   | 2"   | 3"DN80               | 4"  |                      | 6"                    |                       | 4"  | 6"                   |                       | 8"                    |                       |        |        |
|------------------------------|---|--|----------------------|---|----------------------|-----------------------|-----------------------|---|----------------------|-----------------------|-----------------------|-----------------------|--------|--------|
| No. OF ELEMENTS PER DIAMETER |   | 1 x 2"   | 2 x 2"               | 2 x 2"  | 3 x 2"               | 4 x 2"                | 5 x 2"                | 6 x 2"  | 2 x 3"               | 3 x 3"                | 4 x 3"                | 5 x 3"                | 5 x 3" | 6 x 3" |
| MODEL                        |   |   |                      |  |                      |                       |                       |  |                      |                       |                       |                       |        |        |
| General Specifications       | CONNECTION TYPE   | Threaded F   |                      |   | Flanged              |                       |                       |   |                      |                       |                       |                       |        |        |
|                              | FILTRATION DEGREES  | 75 - 120 - 155 mesh ( 200 - 130 - 100 micron)  |                      |   |                      |                       |                       |   |                      |                       |                       |                       |        |        |
|                              | BACKWASH VALVE  | 2"   |                      |   |                      |                       |                       | 3"  |                      |                       |                       |                       |        |        |
|                              | MAXIMUM FLOW RATE   | 24 m <sup>3</sup> /h   | 48 m <sup>3</sup> /h | 72 m <sup>3</sup> /h  | 96 m <sup>3</sup> /h | 120 m <sup>3</sup> /h | 144 m <sup>3</sup> /h | 64 m <sup>3</sup> /h  | 96 m <sup>3</sup> /h | 128 m <sup>3</sup> /h | 160 m <sup>3</sup> /h | 192 m <sup>3</sup> /h |        |        |
|                              | FILTERING SURFACE   | 1450 cm <sup>2</sup>   | 2900 cm <sup>2</sup> | 4350 cm <sup>2</sup>  | 5800 cm <sup>2</sup> | 7250 cm <sup>2</sup>  | 8700 cm <sup>2</sup>  | 2900 cm <sup>2</sup>  | 4350 cm <sup>2</sup> | 5800 cm <sup>2</sup>  | 7250 cm <sup>2</sup>  | 8700 cm <sup>2</sup>  |        |        |
| FILTERING CAPACITY           | VERY HIGH   |  |                      |   |                      |                       | HIGH                  |   |                      |                       |                       |                       |        |        |
| Backwash Data                | MINIMUM FLOW RATE   | 9 m <sup>3</sup> /h  |                      |   |                      |                       |                       |   |                      |                       |                       |                       |        |        |
|                              | DISCHARGE MANIFOLDS DIAMETER  | 3" VIC / DN80  |                      |   |                      |                       |                       |   |                      |                       |                       |                       |        |        |
|                              | MINIMUM PRESSURE  | 2.8 bar  |                      |   |                      |                       |                       |   |                      |                       |                       |                       |        |        |
|                              | MIN TIME BACKWASH   | 20 - 30 seconds  |                      |   |                      |                       |                       |   |                      |                       |                       |                       |        |        |
|                              | WASH CRITERIA   | ΔP max 0.5 bar - washing cycles according to water quality   |                      |   |                      |                       |                       |   |                      |                       |                       |                       |        |        |
| Applications                 |  AGRICULTURE | Primary filtration on medium to large sized systems (water quality from POOR to GOOD)<br>Secondary filtration on "problematic" water (water with high lime and clay content) |                      |   |                      |                       |                       |   |                      |                       |                       |                       |        |        |
|                              |  LANDSCAPE   | Main filtration on large sized systems (parks, public green spaces, golf courses etc.)   |                      |   |                      |                       |                       |   |                      |                       |                       |                       |        |        |

**Head loss diagram (single filtering element)**



**Recommended flow rate (m<sup>3</sup>/h) according to water quality**

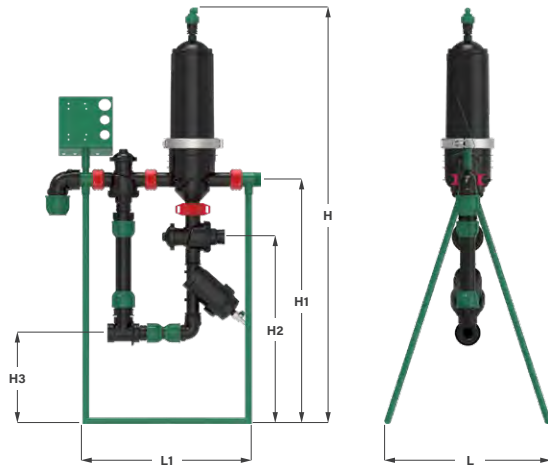
| Model  | Configuration | Flow rate Maximum | Medium Quality | Poor Quality | Very poor Quality |
|--------|---------------|-------------------|----------------|--------------|-------------------|
| RSL 2" | 1 x 2"        | 24                | 20             | 17           | 14                |
|        | 2 x 2"        | 48                | 40             | 34           | 28                |
|        | 3 x 2"        | 72                | 60             | 51           | 42                |
|        | 4 x 2"        | 96                | 80             | 68           | 56                |
|        | 5 x 2"        | 120               | 100            | 85           | 70                |
|        | 6 x 2"        | 144               | 120            | 102          | 84                |
| RSL 3" | 2 x 3"        | 64                | 50             | 38           | 30                |
|        | 3 x 3"        | 96                | 75             | 57           | 45                |
|        | 4 x 3"        | 128               | 100            | 76           | 60                |
|        | 5 x 3"        | 160               | 125            | 95           | 75                |
|        | 6 x 3"        | 192               | 150            | 114          | 90                |



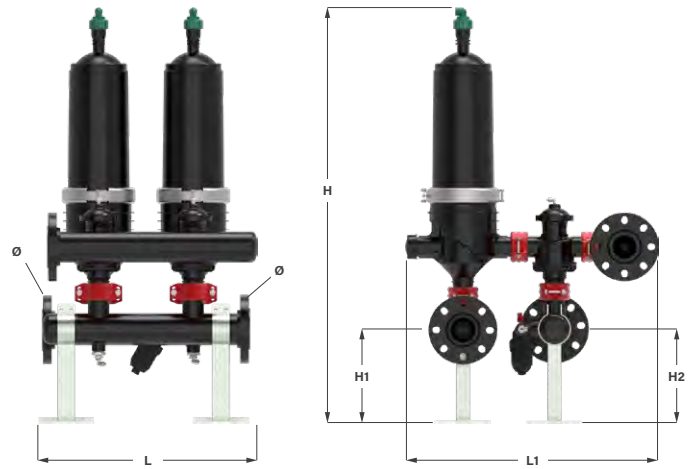
**RSL**

**RGT DISK**  
AUTOMATIC

Single head



Multi-head



| Model  | No. of Elements per diameter | Code          | Type        | Connections | L (mm) | L1 (mm) | H (mm) | H1 (mm) | H2 (mm) | H3 (mm) |     |     |
|--------|------------------------------|---------------|-------------|-------------|--------|---------|--------|---------|---------|---------|-----|-----|
| 2"     | 1 x 2"                       | IFRSL201GBGUx | single head | 2" Female   | 660    | 690     | 1800   | 1040    | 790     | 410     |     |     |
|        | 2 x 2"                       | IFRSL202IVPEx |             |             | 630    |         | 1280   |         |         |         | 280 | 270 |
|        |                              | IFRSL202LVPEx |             |             | 845    |         | 1290   |         |         |         | 290 | 280 |
|        |                              | IFRSL203LVPEx |             |             | 845    |         |        |         |         |         |     |     |
|        | 4 x 2"                       | IFRSL204LVPEx |             |             | 1120   |         | 1315   |         |         |         | 315 | 300 |
|        | 5 x 2"                       | IFRSL205PFPEx |             |             | 1520   |         |        |         |         |         |     |     |
| 6 x 2" | IFRSL206PFPEx                | 1790          |             |             |        |         |        |         |         |         |     |     |
| 3"     | 2 x 3"                       | IFRSL302LVPEx | multi-head  | DN100       | 650    | 870     | 1290   | 290     | 240     |         |     |     |
|        | 3 x 3"                       | IFRSL303PFPEx |             |             | 960    |         | 1315   |         |         |         | 315 | 265 |
|        | 4 x 3"                       | IFRSL304PFPEx |             |             | 1270   |         |        |         |         |         |     |     |
|        | 5 x 3"                       | IFRSL305PFPEx |             |             | 1580   |         |        |         |         |         |     |     |
|        | 6 x 3"                       | IFRSL305RFPEx |             |             | 1600   |         | 1335   |         |         |         | 355 | 285 |
|        |                              | IFRSL306RFPEx |             |             | 1890   |         |        |         |         |         |     |     |

**Filtration degree (mesh)**

x: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    |        |
| L    | 120  | 130    |        |
| N    | 155  | 100    |        |

**Compatible automation kit ACCESSORIES**  
(to be ordered separately)

| Model  | No. of Elements x Diameter | KTB             | KPB | KFB | KCB | KFA           | KCA |
|--------|----------------------------|-----------------|-----|-----|-----|---------------|-----|
|        |                            | Latch Solenoids |     |     |     | 24V Solenoids |     |
| RSL 2" | 1 x 2"                     | ✓               |     |     |     |               |     |
|        | 2 x 2"                     | ✓               | ✓   | ✓   | ✓   | ✓             | ✓   |
|        | 3 x 2"                     | ✓               | ✓   | ✓   | ✓   | ✓             | ✓   |
|        | 4 x 2"                     | ✓               | ✓   | ✓   | ✓   | ✓             | ✓   |
|        | 5 x 2"                     |                 | ✓   | ✓   | ✓   | ✓             | ✓   |
|        | 6 x 2"                     |                 | ✓   | ✓   | ✓   | ✓             | ✓   |
| RSL 3" | 2 x 3"                     | ✓               | ✓   | ✓   | ✓   | ✓             | ✓   |
|        | 3 x 3"                     | ✓               | ✓   | ✓   | ✓   | ✓             | ✓   |
|        | 4 x 3"                     | ✓               | ✓   | ✓   | ✓   | ✓             | ✓   |
|        | 5 x 3"                     |                 | ✓   | ✓   | ✓   | ✓             | ✓   |
|        | 6 x 3"                     |                 | ✓   | ✓   | ✓   | ✓             | ✓   |

**KTB**



| Ref.       | Description             |
|------------|-------------------------|
| IFKTBS01IM | 1 outlet - 12VDC latch  |
| IFKTBS02IM | 2 outlets - 12VDC latch |
| IFKTBS03IM | 3 outlets - 12VDC latch |
| IFKTBS04IM | 4 outlets - 12VDC latch |

**KFB**



| Ref.      | Description              |
|-----------|--------------------------|
| IFKFB02I0 | 2 outlets - 12VDC latch  |
| IFKFB03I0 | 3 outlets - 12VDC latch  |
| IFKFB04I0 | 4 outlets - 12VDC latch  |
| IFKFB05I0 | 5 outlets - 12VDC latch  |
| IFKFB06I0 | 6 outlets - 12VDC latch  |
| IFKFB07I0 | 7 outlets - 12VDC latch  |
| IFKFB08I0 | 8 outlets - 12VDC latch  |
| IFKFB09I0 | 9 outlets - 12VDC latch  |
| IFKFB10I0 | 10 outlets - 12VDC latch |

**KCB**



| Ref.       | Description             |
|------------|-------------------------|
| IFKCBS02IM | 2 outlets - 12VDC latch |
| IFKCBS03IM | 3 outlets - 12VDC latch |
| IFKCBS04IM | 4 outlets - 12VDC latch |
| IFKCBS05IM | 5 outlets - 12VDC latch |
| IFKCBS06IM | 6 outlets - 12VDC latch |
| IFKCBS07IM | 7 outlets - 12VDC latch |

**KPB**



| Ref.       | Description             |
|------------|-------------------------|
| IFKPBS02IM | 2 outlets - 12VDC latch |
| IFKPBS03IM | 3 outlets - 12VDC latch |
| IFKPBS04IM | 4 outlets - 12VDC latch |
| IFKPBS05IM | 5 outlets - 12VDC latch |
| IFKPBS06IM | 6 outlets - 12VDC latch |
| IFKPBS07IM | 7 outlets - 12VDC latch |
| IFKPBS08IM | 8 outlets - 12VDC latch |

**KFA**



| Ref.       | Description        |
|------------|--------------------|
| IFKFAU02I0 | 2 outlets - 24VAC  |
| IFKFAU04I0 | 4 outlets - 24VAC  |
| IFKFAU06I0 | 6 outlets - 24VAC  |
| IFKFAU08I0 | 8 outlets - 24VAC  |
| IFKFAU10I0 | 10 outlets - 24VAC |

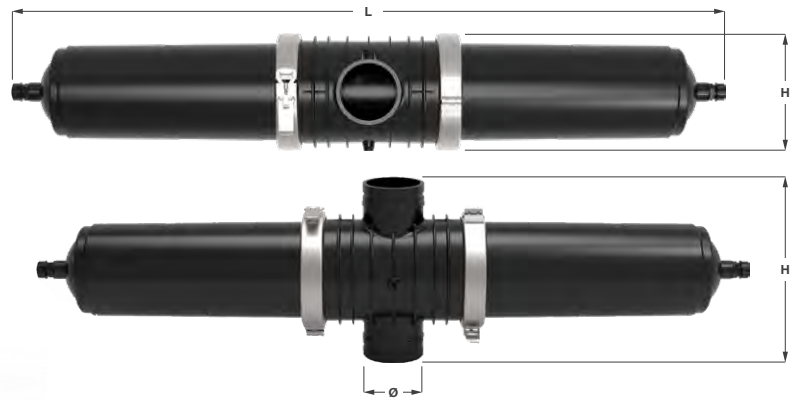
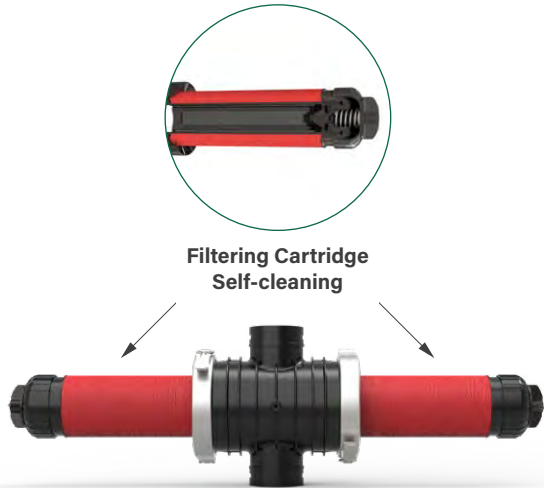
**KCA**



| Ref.       | Description             |
|------------|-------------------------|
| IFKCBS02IM | 2 outlets - 12VDC latch |
| IFKCBS03IM | 3 outlets - 12VDC latch |
| IFKCBS04IM | 4 outlets - 12VDC latch |
| IFKCBS05IM | 5 outlets - 12VDC latch |
| IFKCBS06IM | 6 outlets - 12VDC latch |
| IFKCBS07IM | 7 outlets - 12VDC latch |

**Description**

Double filtering element automatic Rotodisk disc filter: to implement the backwash system a battery must be assembled, complete with appropriate backwash valves, manifolds and a filter automation kit.



| Internal | Code          | PN | Max flow rate (m³/h) | Filtering Surface (cm²) | Min pressure backwash (bar) | Min flow rate backwash (m³/h) | L (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|---------------|----|----------------------|-------------------------|-----------------------------|-------------------------------|--------|--------|--------|-------------|
| 2"       | IFDAFLExyyFON | 10 | 64                   | 2900                    | 2.8                         | 18                            | 1240   | 250    | 390    | 15          |

**General Specifications**

|                                   |   |
|-----------------------------------|---|
| <b>CONNECTION TYPE</b>            | Male threaded (BSP/NPT and/or Grooved)  |
| <b>FILTERING CARTRIDGE</b>        | Automatic                               |
| <b>CLOSING SYSTEM</b>             | Stainless Steel Clamp                   |
| <b>DISCHARGE</b>                  | Female Thread 3/4" BSP (not perforated) |
| <b>PRESSURE GAUGE CONNECTIONS</b> | Female threads 1/4" BSP                 |

**Connections**

yy: connections (replace with:)

| Ref. | Type     |
|------|----------|
| M2   | BSP Male |
| M5   | NPT Male |
| F0   | Flanged  |
| W0   | Grooved  |

**Filtration degree (mesh)**

x: mesh (replace with:)

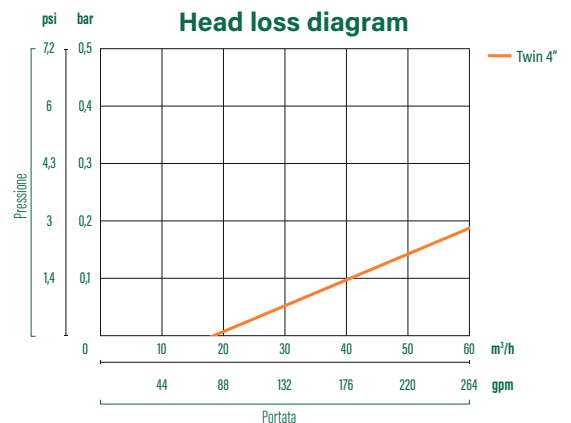
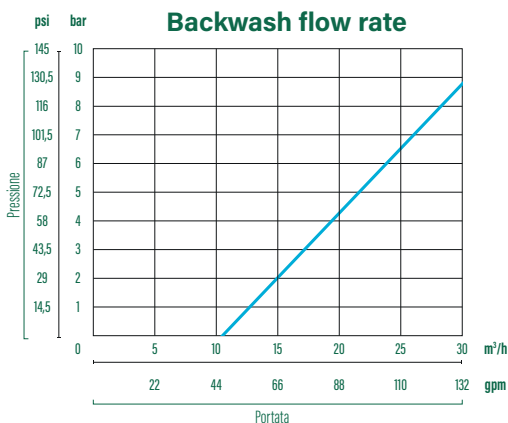
| Ref. | Mesh | Micron | Colour | No. of Discs per filtering cartridge |
|------|------|--------|--------|--------------------------------------|
| H    | 75   | 200    |        | 560                                  |
| L    | 120  | 130    |        | 642                                  |
| N    | 155  | 100    |        | 700                                  |

**Conditions of use**

|                        |                |
|------------------------|----------------|
| <b>PH RANGE</b>        | 4<pH<11        |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>    | 10 bar at 20°C |

**Recommended flow rate (m³/h) according to water quality**

| Model | Flow rate Maximum | Medium Quality | Poor Quality | Very poor Quality |
|-------|-------------------|----------------|--------------|-------------------|
| 4"    | 64                | 50             | 38           | 30                |



**RDL**

**RGTODISK**  
AUTOMATIC

**Description**

DOUBLE BODY automatic disc filtration batteries. Capable of handling high volumes of water while maintaining great portability and a small footprint. Ideal for large installations (190 - 640 mc/h) on all types of water.



**Flow rate**  
192 - 640 m<sup>3</sup>/h



**Filtering Surface**  
8700 - 29000 cm<sup>2</sup>



**Diameters**  
8" - 12"



**Filtration Degree (mesh)**

Standard filtration degree: 120 mesh

**75**  
(200 micron)

**120**  
(130 micron)

**155**  
(100 micron)

**Advantages**

- ✓ **Easy to install** and maintain (no tools required for maintenance)
- ✓ Constructed with durable, **high strength plastics**
- ✓ **Small footprint** and highly versatile.


**Construction materials**

|                            |                                 |
|----------------------------|---------------------------------|
| <b>BACKWASH VALVES</b>     | Reinforced polyamide            |
| <b>VICTAULIC COUPLINGS</b> | Cast iron                       |
| <b>SUPPORTS</b>            | Painted Steel   Stainless Steel |
| <b>MANIFOLDS</b>           | High-density polyethylene       |

**Conditions of use**



|                        |                     |
|------------------------|---------------------|
| <b>PH RANGE</b>        | 4<math>pH</math><11 |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F      |
| <b>MAX PRESSURE</b>    | 10 bar at 20°C      |

## Selecting the correct model

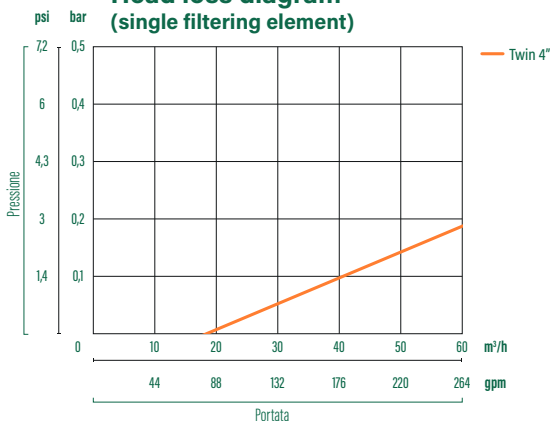
| D. MANIFOLDS                 | 8"   |        | 10"    |        |        | 12"    |        |         |
|------------------------------|--|--------|--------|--------|--------|--------|--------|---------|
| No. OF ELEMENTS PER DIAMETER | 3 x 4"   | 4 x 4" | 5 x 4" | 6 x 4" | 7 x 4" | 8 x 4" | 9 x 4" | 10 x 4" |
| MODEL                        |  |        |        |        |        |        |        |         |

|                        |                    |   |                       |                       |                       |                       |                       |                       |                       |
|------------------------|--------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| General Specifications | CONNECTION TYPE    | Flanged                                       |                       |                       |                       |                       |                       |                       |                       |
|                        | FILTRATION DEGREES | 75 - 120 - 155 mesh ( 200 - 130 - 100 micron) |                       |                       |                       |                       |                       |                       |                       |
|                        | BACKWASH VALVE     | 4" x 4" x 3"                                  |                       |                       |                       |                       |                       |                       |                       |
|                        | MAXIMUM FLOW RATE  | 192 m <sup>3</sup> /h                         | 256 m <sup>3</sup> /h | 320 m <sup>3</sup> /h | 384 m <sup>3</sup> /h | 448 m <sup>3</sup> /h | 512 m <sup>3</sup> /h | 576 m <sup>3</sup> /h | 640 m <sup>3</sup> /h |
|                        | FILTERING SURFACE  | 8700 cm <sup>2</sup>                          | 11600 cm <sup>2</sup> | 14500 cm <sup>2</sup> | 17400 cm <sup>2</sup> | 20300 cm <sup>2</sup> | 23200 cm <sup>2</sup> | 26100 cm <sup>2</sup> | 29000 cm <sup>2</sup> |
| FILTERING CAPACITY     | HIGH               |   |                       |                       |                       |                       |                       |                       |                       |

|               |                              |  |  |  |  |  |  |  |  |
|---------------|------------------------------|--|--|--|--|--|--|--|--|
| Backwash Data | MINIMUM FLOW RATE            | 18   |  |  |  |  |  |  |  |
|               | DISCHARGE MANIFOLDS DIAMETER | DN100  |  |  |  |  |  |  |  |
|               | MINIMUM PRESSURE             | 2.8 bar  |  |  |  |  |  |  |  |
|               | MIN TIME BACKWASH            | 20 - 30 sec.   |  |  |  |  |  |  |  |
|               | WASH CRITERIA                | ΔP max 0.5 bar - washing cycles according to water quality |  |  |  |  |  |  |  |

|              |   |  |
|--------------|---|--|
| Applications | <br><b>AGRICULTURE</b> | Primary filtration on medium to large sized systems (water quality from POOR to GOOD)  |
|              |   | Secondary filtration on "problematic" water (water with high lime and clay content)    |
|              | <br><b>LANDSCAPE</b>   | Main filtration on large sized systems (parks, public green spaces, golf courses etc.) |

**Head loss diagram**  
(single filtering element)

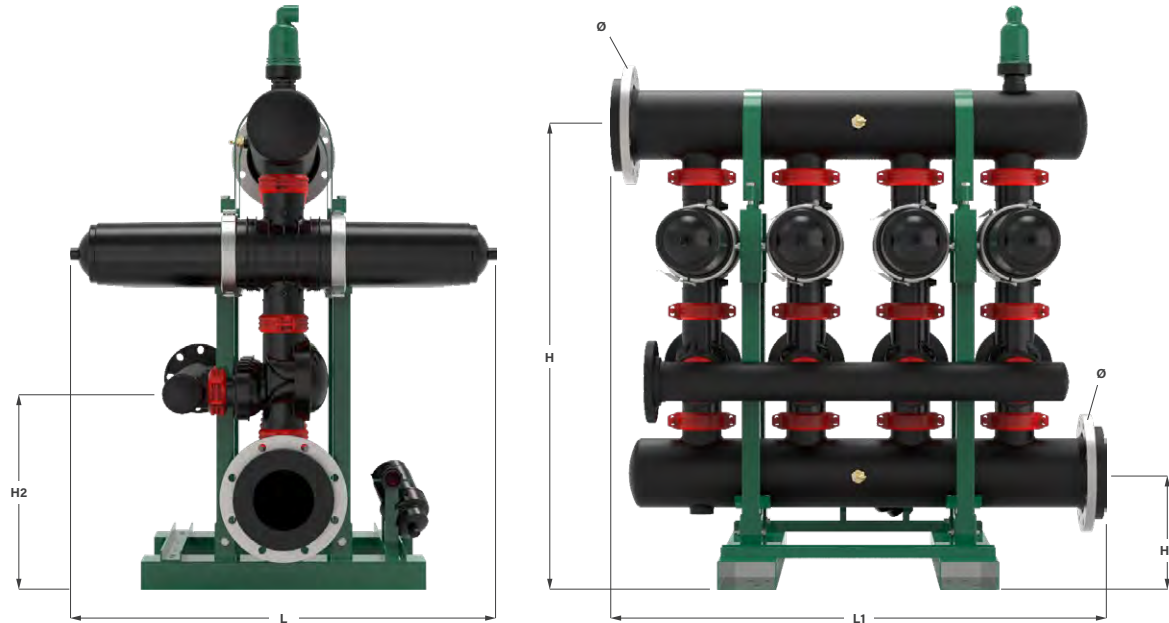


**Recommended flow rate (m<sup>3</sup>/h)**  
according to water quality

| Model | Configuration | Flow rate Maximum | Medium Quality | Poor Quality | Very poor Quality |
|-------|---------------|-------------------|----------------|--------------|-------------------|
| RDL   | 3 x 4"        | 192               | 150            | 114          | 90                |
|       | 4 x 4"        | 256               | 200            | 152          | 120               |
|       | 5 x 4"        | 320               | 250            | 190          | 150               |
|       | 6 x 4"        | 384               | 300            | 228          | 180               |
|       | 7 x 4"        | 448               | 350            | 266          | 210               |
|       | 8 x 4"        | 512               | 400            | 304          | 240               |
|       | 9 x 43"       | 576               | 450            | 342          | 270               |
|       | 10 x 4"       | 640               | 500            | 380          | 300               |

**RDL**

**RGTODISK**  
AUTOMATIC



| Model | No. of Elements per diameter | Code                       | Off-take | L (mm) | L1 (mm) | H (mm) | H1 (mm) | H2 (mm) |
|-------|------------------------------|----------------------------|----------|--------|---------|--------|---------|---------|
| 4"    | 3 x 4"                       | IFRDL403RFPE <sup>x</sup>  | DN200    | 1240   | 1120    | 1185   | 285     | 630     |
|       | 4 x 4"                       | IFRDL404RFPE <sup>x</sup>  |          |        | 1420    |        |         |         |
|       | 5 x 4"                       | IFRDL405TFPE <sup>x</sup>  |          |        | 1720    |        |         |         |
|       | 6 x 4"                       | IFRDL406TFPE <sup>x</sup>  | DN250    |        | 2020    | 1235   | 310     |         |
|       | 7 x 4"                       | IFRDL407TFPE <sup>x</sup>  |          |        | 2320    |        |         |         |
|       | 8 x 4"                       | IFRDL408VFPE <sup>x</sup>  | DN300    |        | 2620    | 1310   | 350     |         |
|       | 9 x 4"                       | IFRDL409VFPE <sup>x</sup>  |          |        | 2920    |        |         |         |
|       | 10 x 4"                      | IFRDL4010VFPE <sup>x</sup> |          |        | 3220    |        |         |         |

**Filtration degree (mesh)**

<sup>x</sup>: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| H    | 75   | 200    |        |
| L    | 120  | 130    |        |
| N    | 155  | 100    |        |

**Compatible automation kit ACCESSORIES**  
(to be ordered separately)

| Model  | No. of Elements x Diameter | KTB | KPB | KFB | KCB | KFA | KCA |
|--------|----------------------------|-----|-----|-----|-----|-----|-----|
| RDL 4" | 3 x 4"                     | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
|        | 4 x 4"                     | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
|        | 5 x 4"                     |     | ✓   | ✓   | ✓   | ✓   | ✓   |
|        | 6 x 4"                     |     | ✓   | ✓   | ✓   | ✓   | ✓   |
|        | 7 x 4"                     |     |     | ✓   | ✓   | ✓   | ✓   |
|        | 8 x 4"                     |     |     | ✓   | ✓   | ✓   | ✓   |
|        | 9 x 4"                     |     |     | ✓   | ✓   | ✓   | ✓   |
|        | 10 x 4"                    |     |     | ✓   | ✓   | ✓   | ✓   |

**KTB**



| Ref.       | Description             |
|------------|-------------------------|
| IFKTBS01IM | 1 outlet - 12VDC latch  |
| IFKTBS02IM | 2 outlets - 12VDC latch |
| IFKTBS03IM | 3 outlets - 12VDC latch |
| IFKTBS04IM | 4 outlets - 12VDC latch |

**KFB**



| Ref.       | Description              |
|------------|--------------------------|
| IFKFBS02I0 | 2 outlets - 12VDC latch  |
| IFKFBS03I0 | 3 outlets - 12VDC latch  |
| IFKFBS04I0 | 4 outlets - 12VDC latch  |
| IFKFBS05I0 | 5 outlets - 12VDC latch  |
| IFKFBS06I0 | 6 outlets - 12VDC latch  |
| IFKFBS07I0 | 7 outlets - 12VDC latch  |
| IFKFBS08I0 | 8 outlets - 12VDC latch  |
| IFKFBS09I0 | 9 outlets - 12VDC latch  |
| IFKFBS10I0 | 10 outlets - 12VDC latch |

**KCB**



| Ref.       | Description             |
|------------|-------------------------|
| IFKCBS02IM | 2 outlets - 12VDC latch |
| IFKCBS03IM | 3 outlets - 12VDC latch |
| IFKCBS04IM | 4 outlets - 12VDC latch |
| IFKCBS05IM | 5 outlets - 12VDC latch |
| IFKCBS06IM | 6 outlets - 12VDC latch |
| IFKCBS07IM | 7 outlets - 12VDC latch |

**KPB**



| Ref.       | Description             |
|------------|-------------------------|
| IFKPBS02IM | 2 outlets - 12VDC latch |
| IFKPBS03IM | 3 outlets - 12VDC latch |
| IFKPBS04IM | 4 outlets - 12VDC latch |
| IFKPBS05IM | 5 outlets - 12VDC latch |
| IFKPBS06IM | 6 outlets - 12VDC latch |
| IFKPBS07IM | 7 outlets - 12VDC latch |
| IFKPBS08IM | 8 outlets - 12VDC latch |

**KFA**



| Ref.       | Description        |
|------------|--------------------|
| IFKFAU02I0 | 2 outlets - 24VAC  |
| IFKFAU04I0 | 4 outlets - 24VAC  |
| IFKFAU06I0 | 6 outlets - 24VAC  |
| IFKFAU08I0 | 8 outlets - 24VAC  |
| IFKFAU10I0 | 10 outlets - 24VAC |

**KCA**



| Ref.       | Description             |
|------------|-------------------------|
| IFKCBS02IM | 2 outlets - 12VDC latch |
| IFKCBS03IM | 3 outlets - 12VDC latch |
| IFKCBS04IM | 4 outlets - 12VDC latch |
| IFKCBS05IM | 5 outlets - 12VDC latch |
| IFKCBS06IM | 6 outlets - 12VDC latch |
| IFKCBS07IM | 7 outlets - 12VDC latch |

## Filtration | Metal filters

*Irritec's line of metal filters offers complete and extremely robust solutions. The product range is divided into sand media filters, screen filters (both traditional and semi-automatic versions) and hydrocyclone sand separators. The special care taken in the construction and the use of high gauge metal make this filter line the right*

*solution for the toughest applications and the most difficult waters. Irritec metal filters are also protected by a thick Epoxy paint that protects the metal from corrosive events over a long period of time.*



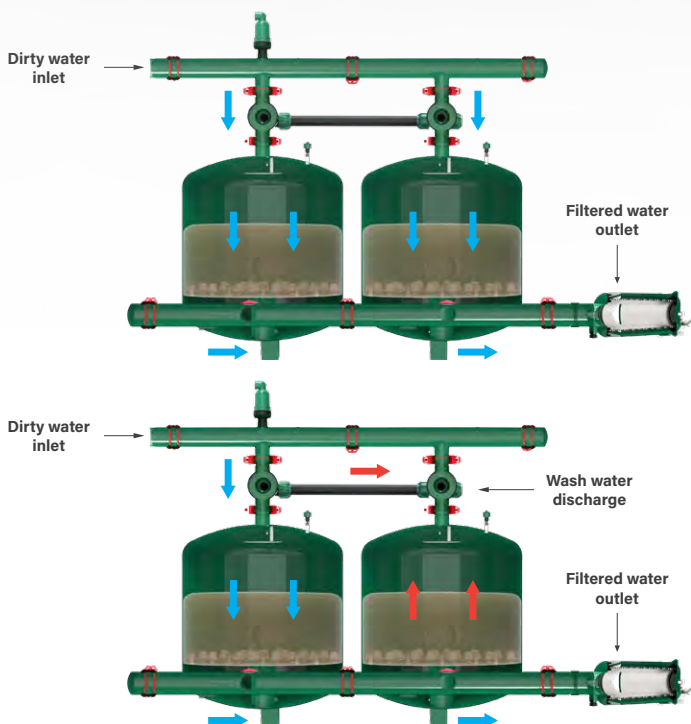


# SAND MEDIA FILTERS



## Advantages

- ✓ **Maximum filtering capacity**, ideal for poor quality water and where algae and/or organic substances are present
- ✓ **Completely automatable**
- ✓ **Modular system.** Wide range of models to suit every need
- ✓ **Sturdy construction** and high quality coating



### Filtration

Dirty water flows through the sand "filter beds". Impurities in the water remain trapped inside.

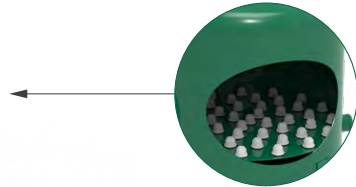
### Backwash

Reversing the flow through a filtering element causes the sand bed to expand. Accumulated impurities are expelled during "backwashing" through the discharge manifold. The wash cycle ends after repeating this operation for each filtering element.



# SAND MEDIA FILTERS

**PRODUCT RANGE: Single chamber and complete batteries**



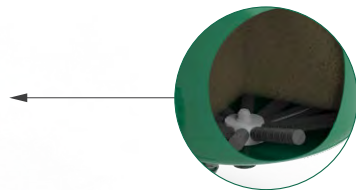
## EUV

- Sand media filtering element with drainage consisting of a plate and "mushroom" diffusers
- Diameters from 320 to 1200 mm - connections from 1" - 4"
- Maximum filtration and wash efficiency



## GCV

- Complete filter batteries, consisting of multiple EUV elements and completed with back-up filter and manifolds
- Modular system for any application



## ECV

- Sand media filtering element with drainage consisting of radial arm manifold and "maxi flow" diffusers
- Diameters from 600 to 1200 mm - Connections from 2" - 4"
- Compact, lightweight structure, retractable supports



## HCV

- Complete filtration batteries, consisting of multiple ECV elements. Complete with back-up filter and manifolds.
- Modular system for any capacity.
- Lighter and more compact design than GCV but same build quality.

**EUV**

**SAND MEDIA  
 FILTERS**

**Description**

Sand media filter with "plate" and "mushroom" diffuser drainage. Made of high gauge metal and protected by a high quality epoxy paint. Ideal for treating difficult waters (high turbidity, presence of algae and other organic residues).



**Flow rate**  
 3 - 90 m<sup>3</sup>/h



**Filtering Surface**  
 800 - 11300 cm<sup>2</sup>



**Diameters**  
 1" - 4"



**Advantages**

- ✓ Drainage system (plate) with **very high efficiency** in both the filtration and wash stages
- ✓ **Sturdy construction** with high gauge metal.
- ✓ **Large, easy to open, oval inspection** and load hatches

**Construction materials**

|                          |  |
|--------------------------|--|
| <b>FILTER BODY</b>       | Structural steel                                     |
| <b>MANIFOLDS</b>         | Structural steel                                     |
| <b>COATING</b>           | Polyester powder coating (min. thickness 160 micron) |
| <b>DIFFUSERS</b>         | Polypropylene  |
| <b>FILTERING ELEMENT</b> | Sand (recommended grain size: 0.8 - 1.2 mm)          |
| <b>GASKETS</b>           | EPDM   |
| <b>ACCESSORIES</b>       | Polypropylene  |



**Conditions of use**

|                              |                |
|------------------------------|----------------|
| <b>PH RANGE</b>              | 4<pH<11        |
| <b>MAX TEMPERATURE</b>       | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>          | 8 bar at 20°C  |
| <b>MIN BACKWASH PRESSURE</b> | 2.5 bar        |

**EUV**


**SAND MEDIA  
FILTERS**

**Selecting the correct model**

|                      |  |              |              |              |  |               |
|----------------------|--|--------------|--------------|--------------|--|---------------|
| <b>BODY DIAMETER</b> | 320 mm   | 400 mm (16") | 500 mm (20") | 600 mm (24") | 900 mm (36")   | 1200 mm (48") |
| <b>CONNECTIONS</b>   | 1"   | 1 1/2"       | 2"           |              | 3"   | 4"            |
| <b>MODEL</b>         | <p style="text-align: center;">Type A</p>  |              |              |              | <p style="text-align: center;">Type B</p>  |               |

|                               |                           |                     |                      |                      |                                     |                      |                       |
|-------------------------------|---------------------------|---------------------|----------------------|----------------------|-------------------------------------|----------------------|-----------------------|
| <b>General Specifications</b> | <b>CONNECTION TYPE</b>    | Threaded Female     |                      |                      | Threaded Female - Flanged - Grooved |                      |                       |
|                               | <b>FILTERING SURFACE</b>  | 800 cm <sup>2</sup> | 1300 cm <sup>2</sup> | 2000 cm <sup>2</sup> | 2800 cm <sup>2</sup>                | 6400 cm <sup>2</sup> | 11300 cm <sup>2</sup> |
|                               | <b>QUANTITY OF SAND</b>   | 40 kg               | 75 kg                | 100 kg               | 150 kg                              | 350 kg               | 800 kg                |
|                               | <b>MAXIMUM FLOW RATE</b>  | 6 m <sup>3</sup> /h | 11 m <sup>3</sup> /h | 18 m <sup>3</sup> /h | 28 m <sup>3</sup> /h                | 62 m <sup>3</sup> /h | 90 m <sup>3</sup> /h  |
|                               | <b>FILTERING CAPACITY</b> | <b>VERY HIGH</b>    |                      |                      |                                     |                      |                       |

|                      |                          |  |                     |                     |                      |                      |                      |
|----------------------|--------------------------|--|---------------------|---------------------|----------------------|----------------------|----------------------|
| <b>Backwash Data</b> | <b>MINIMUM FLOW RATE</b> | 3 m <sup>3</sup> /h  | 5 m <sup>3</sup> /h | 8 m <sup>3</sup> /h | 11 m <sup>3</sup> /h | 25 m <sup>3</sup> /h | 45 m <sup>3</sup> /h |
|                      | <b>MINIMUM PRESSURE</b>  | 2.5 bar  |                     |                     |                      |                      |                      |
|                      | <b>MIN TIME BACKWASH</b> | 60 - 120 sec.  |                     |                     |                      |                      |                      |
|                      | <b>BACKWASH CRITERIA</b> | ΔP max 0.5 bar - washing cycles according to water quality |                     |                     |                      |                      |                      |

|                     |   |  |
|---------------------|---|--|
| <b>Applications</b> | <br><b>AGRICULTURE</b> | Primary filtration of "Difficult" water - medium-large systems |
|                     | <br><b>LANDSCAPE</b>   |  |

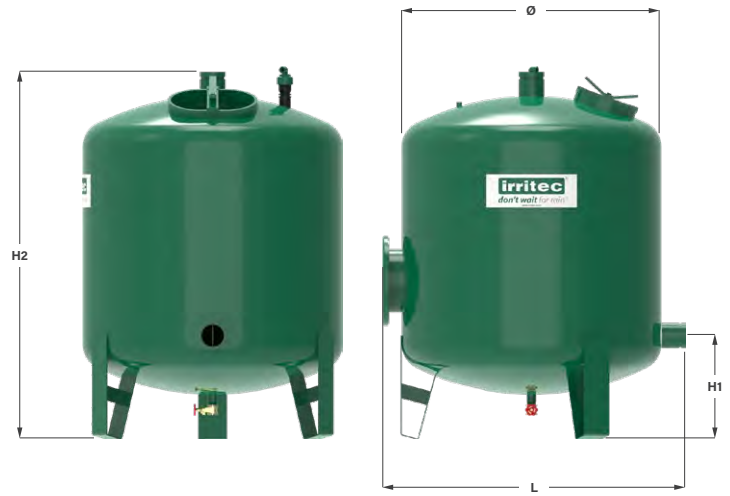
**EUV**

**SAND MEDIA FILTERS**

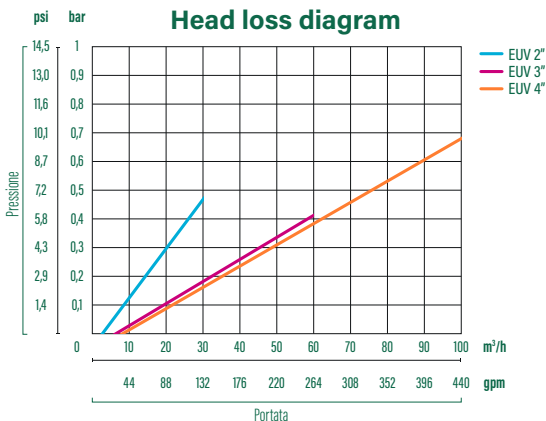
Type A



Type B



| Ø body (mm)     | Connections     |                 | Code         | Type   | Number of Nozzles | Flow rate (m³/h) | L (mm) | H1 (mm) | H2 (mm) | Weight (kg) |
|-----------------|-----------------|-----------------|--------------|--------|-------------------|------------------|--------|---------|---------|-------------|
| 320             | 1"              | threaded female | IFEUV10H320  | -      | 9                 | 3÷6              | 320    | 70      | 640     | 35          |
| 400             | 1 1/2"          | threaded female | IFEUV15H400  | Type A | 12                | 6÷11             | 450    | 275     | 670     | 43          |
| 500             | 2"              | threaded female | IFEUV20H500  |        | 15                | 9÷18             | 550    | 340     | 835     | 60          |
| 600             |                 | threaded female | IFEUV20H600  |        | 21                | 14÷28            | 650    | 370     |         | 70          |
|                 | threaded female | IFEUV30H600     | 1040         |        |                   |                  | 1245   |         | 150     |             |
| 900             | 3"              | threaded female | IFEUV30H900  | 52     | 32÷62             | 1070             |        | 400     |         | 1275        |
|                 |                 | grooved         | IFEUV30W900  |        |                   | 1080             |        |         |         | 1285        |
|                 |                 | flanged         | IFEUV30F900  |        | 1050              | 1255             |        |         |         |             |
|                 | 4"              | threaded female | IFEUV40H900  |        | 88                | 35÷65            | 1080   | 440     | 1285    |             |
| flanged         |                 | IFEUV40F900     | 1350         | 1365   |                   |                  |        |         |         |             |
| threaded female |                 | IFEUV40H1200    | 1370         | 1385   |                   |                  |        |         |         |             |
| 1200            | 4"              | grooved         | IFEUV40W1200 | 88     | 35÷90             | 1380             | 440    | 1400    | 230     |             |
|                 |                 | flanged         | IFEUV40F1200 |        |                   |                  |        | 1400    | 242     |             |



**Recommended flow rate (m³/h) according to water quality**

| Model | Internal Body | Flow rate Maximum | Medium Quality | Poor Quality | Very poor Quality |
|-------|---------------|-------------------|----------------|--------------|-------------------|
| EUV   | 320           | 6                 | 5              | 4            | 3                 |
|       | 400           | 11                | 8              | 6            | 5                 |
|       | 500           | 18                | 12             | 10           | 8                 |
|       | 600           | 28                | 17             | 14           | 11                |
|       | 900           | 62                | 40             | 30           | 25                |
|       | 1200          | 90                | 70             | 55           | 45                |

# GCV Complete filtration batteries

## SAND MEDIA FILTERS

### Description

Complete filtration battery consisting of EUV filtering elements, mesh back-up filter, inlet & outlet manifolds, PE discharge manifold, 3-way backwash valves and accessories - automation kit not included (can be ordered separately).



## Selecting the correct model

| CONFIGURATION          | IN LINE |   |        |        |        |   |         |   |        | IN PARALLEL |        |   |         |   |        |  |
|------------------------|---------|---|--------|--------|--------|---|---------|---|--------|-------------|--------|---|---------|---|--------|--|
|                        | 600 mm  |   |        | 900 mm |        |   | 1200 mm |   |        | 900 mm      |        |   | 1200 mm |   |        |  |
| TANKS DIAMETER         | 600 mm  |   |        | 900 mm |        |   | 1200 mm |   |        | 900 mm      |        |   | 1200 mm |   |        |  |
| NUMBER OF ELEMENTS     | 2       | 3 | 4      | 2      | 3      | 4 | 2       | 3 | 4      | 4           | 5      | 6 | 4       | 5 | 6      |  |
| BACK-UP FILTER         | 1 x 3"  |   | 1 x 4" |        | 1 x 6" |   | 1 x 8"  |   | 2 x 6" |             | 1 x 6" |   | 2 x 6"  |   | 3 x 6" |  |
| TYPE OF BACK-UP FILTER | EPV     |   |        |        |        |   |         |   |        |             |        |   |         |   |        |  |
| CONNECTIONS            | 3"      |   | 4"     |        | DN150  |   | DN200   |   | DN150  |             | DN200  |   | DN250   |   | DN250  |  |

| General Specifications | CONNECTION TYPE                       | Threaded Female |      |       |       |       |       |       |       |       | Flanged |       |       |       |       |       |
|------------------------|---------------------------------------|-----------------|------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|
|                        | NOMINAL PRESSURE                      | 8 bar           |      |       |       |       |       |       |       |       |         |       |       |       |       |       |
|                        | FILTERING SURFACE (cm <sup>2</sup> )  | 5600            | 8400 | 11200 | 12800 | 19200 | 25600 | 22600 | 33900 | 45200 | 25600   | 32000 | 38400 | 45200 | 56500 | 67800 |
|                        | QUANTITY OF SAND (kg)                 | 300             | 450  | 600   | 700   | 1050  | 1400  | 1600  | 2400  | 3200  | 1400    | 1750  | 2100  | 3200  | 4000  | 4800  |
|                        | NOMINAL FLOW RATE (m <sup>3</sup> /h) | 40              | 60   | 80    | 80    | 120   | 160   | 140   | 210   | 280   | 160     | 200   | 250   | 280   | 350   | 420   |

### Compatible automation kits (to be ordered separately)

| Number of Filters | KTB             | KPB | KFB | KCB           | KFA | KCA |
|-------------------|-----------------|-----|-----|---------------|-----|-----|
|                   | Latch Solenoids |     |     | 24V Solenoids |     |     |
| 1                 | ✓               | ✓   | ✓   | ✓             | ✓   | ✓   |
| 2                 | ✓               | ✓   | ✓   | ✓             | ✓   | ✓   |
| 3                 | ✓               | ✓   | ✓   | ✓             | ✓   | ✓   |
| 4                 | ✓               | ✓   | ✓   | ✓             | ✓   | ✓   |
| 5                 |                 | ✓   | ✓   | ✓             | ✓   | ✓   |
| 6                 |                 |     | ✓   | ✓             | ✓   | ✓   |



| Ref.      | Description              |
|-----------|--------------------------|
| IFKFB02I0 | 2 outlets - 12VDC latch  |
| IFKFB03I0 | 3 outlets - 12VDC latch  |
| IFKFB04I0 | 4 outlets - 12VDC latch  |
| IFKFB05I0 | 5 outlets - 12VDC latch  |
| IFKFB06I0 | 6 outlets - 12VDC latch  |
| IFKFB07I0 | 7 outlets - 12VDC latch  |
| IFKFB08I0 | 8 outlets - 12VDC latch  |
| IFKFB09I0 | 9 outlets - 12VDC latch  |
| IFKFB10I0 | 10 outlets - 12VDC latch |



| Ref.      | Description             |
|-----------|-------------------------|
| IFKTB01I0 | 1 outlet - 12VDC latch  |
| IFKTB02I0 | 2 outlets - 12VDC latch |
| IFKTB03I0 | 3 outlets - 12VDC latch |
| IFKTB04I0 | 4 outlets - 12VDC latch |



| Ref.      | Description             |
|-----------|-------------------------|
| IFKCS02IM | 2 outlets - 12VDC latch |
| IFKCS03IM | 3 outlets - 12VDC latch |
| IFKCS04IM | 4 outlets - 12VDC latch |
| IFKCS05IM | 5 outlets - 12VDC latch |
| IFKCS06IM | 6 outlets - 12VDC latch |
| IFKCS07IM | 7 outlets - 12VDC latch |



| Ref.       | Description             |
|------------|-------------------------|
| IFKPBS02IM | 2 outlets - 12VDC latch |
| IFKPBS03IM | 3 outlets - 12VDC latch |
| IFKPBS04IM | 4 outlets - 12VDC latch |
| IFKPBS05IM | 5 outlets - 12VDC latch |
| IFKPBS06IM | 6 outlets - 12VDC latch |
| IFKPBS07IM | 7 outlets - 12VDC latch |
| IFKPBS08IM | 8 outlets - 12VDC latch |



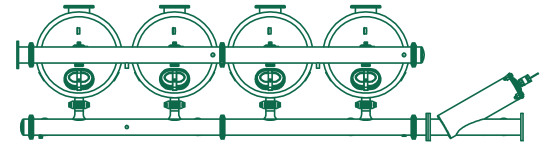
| Ref.       | Description        |
|------------|--------------------|
| IFKFAU02I0 | 2 outlets - 24VAC  |
| IFKFAU04I0 | 4 outlets - 24VAC  |
| IFKFAU06I0 | 6 outlets - 24VAC  |
| IFKFAU08I0 | 8 outlets - 24VAC  |
| IFKFAU10I0 | 10 outlets - 24VAC |



| Ref.       | Description             |
|------------|-------------------------|
| IFKCBS02IM | 2 outlets - 12VDC latch |
| IFKCBS03IM | 3 outlets - 12VDC latch |
| IFKCBS04IM | 4 outlets - 12VDC latch |
| IFKCBS05IM | 5 outlets - 12VDC latch |
| IFKCBS06IM | 6 outlets - 12VDC latch |
| IFKCBS07IM | 7 outlets - 12VDC latch |

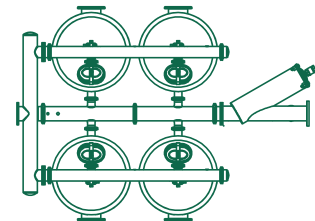
**GCV**

**SAND MEDIA  
FILTERS**



**GCV "In line" models**

| Configuration | Code          | Nominal flow rate (m³/h) | Connections |                 | L (mm) | L1 (mm) | H (mm) | H1 (mm) |      |
|---------------|---------------|--------------------------|-------------|-----------------|--------|---------|--------|---------|------|
| 2 x 600       | IFGCV6202PIHI | 40                       | 3"          | threaded female | 2700   | 1150    | 835    | 370     |      |
| 3 x 600       | IFGCV6203PLHI | 60                       |             |                 | 4"     |         |        |         | 3600 |
| 4 x 600       | IFGCV6204PLHI | 80                       |             |                 |        |         |        |         | 4400 |
| 2 x 900       | IFGCV9302PLHI | 80                       | DN 150      | flanged         | 3200   | 1200    | 1680   | 400     |      |
| 3 x 900       | IFGCV9303PPFI | 120                      |             |                 | 4500   |         | 1710   |         |      |
| 4 x 900       | IFGCV9304PPFI | 160                      |             |                 | 5500   |         | 1833   |         |      |
| 2 x 1200      | IFGCV1402PPFI | 140                      | DN 200      | flanged         | 4100   | 1500    | 1865   | 440     |      |
| 3 x 1200      | IFGCV1403PRFI | 210                      |             |                 | 5000   |         |        |         |      |
| 4 x 1200      | IFGCV1404PRFI | 280                      |             |                 | 6600   |         |        |         |      |



**GCV "In parallel" models**

| Configuration | Code          | Nominal flow rate (m³/h) | Connections |         | L (mm) | L1 (mm) | H (mm) | H1 (mm) |
|---------------|---------------|--------------------------|-------------|---------|--------|---------|--------|---------|
| 4 x 900       | IFGCV9304PPFU | 160                      | DN 150      | flanged | 3700   | 2640    | 1680   | 400     |
| 5 x 900       | IFGCV9305PRFU | 200                      | DN 200      |         | 5000   | 2700    | 1710   |         |
| 6 x 900       | IFGCV9306PRFU | 250                      |             |         | 5500   |         |        |         |
| 4 x 1200      | IFGCV1404PRFU | 280                      | DN 250      | flanged | 5100   | 3280    | 1865   | 440     |
| 5 x 1200      | IFGCV1405PTFU | 350                      |             |         | 6200   | 3340    |        |         |
| 6 x 1200      | IFGCV1406PTFU | 420                      |             |         | 6800   |         |        |         |

**ECV**

**SAND MEDIA  
FILTERS**

**Description**

Sand media filter with radial arm and "maxi-flow" diffuser drainage. Made of high gauge metal and protected by a high quality epoxy paint. Ideal for treating difficult waters (high turbidity, presence of algae and other organic residues)



**Flow rate**  
14 - 90 m<sup>3</sup>/h



**Filtering Surface**  
2800 - 11300 cm<sup>2</sup>



**Diameters**  
2" - 4"



**Advantages**

- ✓ **Lightweight, compact design** – retractable supports
- ✓ **Sturdy construction** with high gauge metal.
- ✓ Large, easy to open, oval inspection **and load hatches**



**Construction materials**

|                          |  |
|--------------------------|--|
| <b>FILTER BODY</b>       | Structural steel                                     |
| <b>MANIFOLDS</b>         | Structural steel                                     |
| <b>COATING</b>           | Polyester powder coating (min. thickness 160 micron) |
| <b>DIFFUSERS</b>         | Polypropylene  |
| <b>FILTERING ELEMENT</b> | Sand (recommended grain size: 0.8 - 1.2 mm)          |
| <b>GASKETS</b>           | EPDM   |
| <b>ACCESSORIES</b>       | Polypropylene  |

**Conditions of use**



|                              |                |
|------------------------------|----------------|
| <b>PH RANGE</b>              | 4<pH<11        |
| <b>MAX TEMPERATURE</b>       | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>          | 8 bar at 20°C  |
| <b>MIN BACKWASH PRESSURE</b> | 2.5 bar        |

Selecting the correct model

|             |  |           |   |            |
|-------------|--|-----------|---|------------|
| MODEL       | 600 (24")  | 750 (30") | 900 (36")   | 1200 (48") |
| CONNECTIONS | 2"   |           | 3"  | 4"         |
| MODEL       | Type A<br> |           | Type B<br> |            |

|                        |                    |                      |                      |                                     |                       |
|------------------------|--------------------|----------------------|----------------------|-------------------------------------|-----------------------|
| General Specifications | CONNECTION TYPE    | Threaded Female      |                      | Threaded Female - Flanged - Grooved |                       |
|                        | FILTERING SURFACE  | 2800 cm <sup>2</sup> | 4400 cm <sup>2</sup> | 6400 cm <sup>2</sup>                | 11300 cm <sup>2</sup> |
|                        | QUANTITY OF SAND   | 150 kg               | 200 kg               | 350 kg                              | 800 kg                |
|                        | MAXIMUM FLOW RATE  | 28 m <sup>3</sup> /h | 42 m <sup>3</sup> /h | 62 m <sup>3</sup> /h                | 90 m <sup>3</sup> /h  |
|                        | FILTERING CAPACITY | VERY HIGH            |                      |                                     |                       |

|               |                   |  |                      |                      |                      |
|---------------|-------------------|--|----------------------|----------------------|----------------------|
| Backwash Data | MINIMUM FLOW RATE | 11 m <sup>3</sup> /h                                       | 18 m <sup>3</sup> /h | 25 m <sup>3</sup> /h | 45 m <sup>3</sup> /h |
|               | MINIMUM PRESSURE  | 2.5 bar  |                      |                      |                      |
|               | MIN TIME BACKWASH | 60 - 120 sec.  |                      |                      |                      |
|               | BACKWASH CRITERIA | ΔP max 0.5 bar - washing cycles according to water quality |                      |                      |                      |

|              |  |   |
|--------------|--|---|
| Applications | <br>AGRICULTURE | Primary filtration of "Difficult" water |
|              | <br>LANDSCAPE   |   |

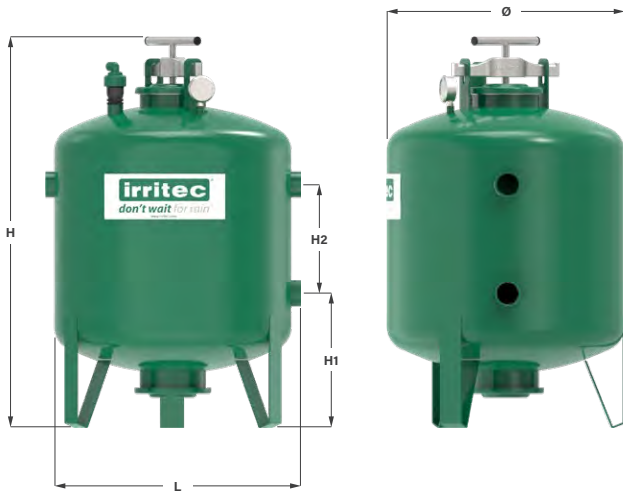


**ECV**

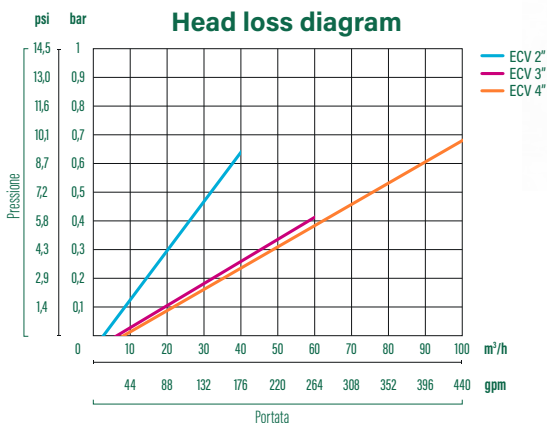
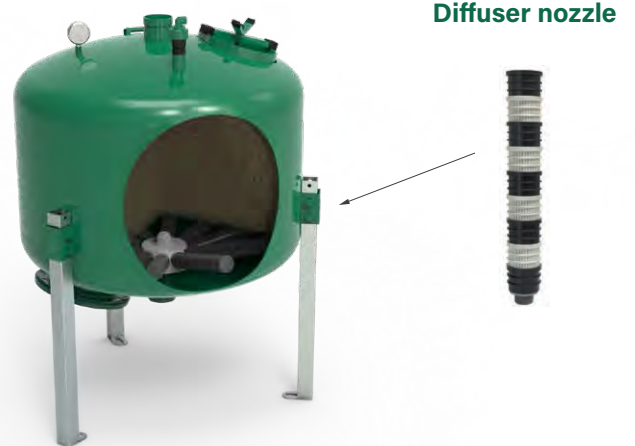
**SAND MEDIA  
FILTERS**

Type A

Type B



| Ø body (mm) | Connections |                 | Code         | Type   | Number Nozzles | Length Nozzles (mm) | Flow rate (m³/h) | L (mm) | H (mm) | H1 (mm) | H2 (mm) | Weight (kg) |       |      |      |     |   |     |
|-------------|-------------|-----------------|--------------|--------|----------------|---------------------|------------------|--------|--------|---------|---------|-------------|-------|------|------|-----|---|-----|
| 600         | 2"          | threaded female | IFECV20H600  | Type A | 6              | 237                 | 14÷28            | 650    | 1000   | 335     | 275     | 70          |       |      |      |     |   |     |
| 750         |             | threaded female | IFECV20H750  |        |                |                     |                  |        |        |         |         |             |       |      |      |     |   |     |
| 900         | 3"          | threaded female | IFECV30H900  | Type B | 8              | 347                 | 32÷62            | 960    | 1265   | 300     | -       | 110         |       |      |      |     |   |     |
|             |             | grooved         | IFECV30W900  |        |                |                     |                  |        | 1245   |         |         |             |       |      |      |     |   |     |
|             |             | flanged         | IFECV30F900  |        |                |                     |                  |        | 1200   |         |         |             |       |      |      |     |   |     |
| 1200        | 4"          | threaded female | IFECV40H1200 |        |                |                     |                  |        | 16     |         |         | 493         | 35÷90 | 1320 | 1340 | 300 | - | 220 |
|             |             | grooved         | IFECV40W1200 |        |                |                     |                  |        |        |         |         |             |       |      | 1300 |     |   |     |
|             |             | flanged         | IFECV40F1200 |        |                |                     |                  |        |        |         |         |             |       |      | 1270 |     |   |     |
|             |             |                 |              |        |                |                     |                  | 370    |        | -       | 230     |             |       |      |      |     |   |     |



**Recommended flow rate (m³/h) according to water quality**

| Model | Internal Body | Flow rate Maximum | Medium Quality | Poor Quality | Very poor Quality |
|-------|---------------|-------------------|----------------|--------------|-------------------|
| ECV   | 600           | 28                | 17             | 14           | 11                |
|       | 750           | 42                | 26             | 22           | 18                |
|       | 900           | 62                | 40             | 30           | 25                |
|       | 1200          | 90                | 70             | 55           | 45                |

# HCV Complete filtration batteries

# SAND MEDIA FILTERS

## Description

Complete filtration battery consisting of ECV filtering elements, mesh back-up filter, inlet & outlet manifolds, PE discharge manifold, 3-way backwash valves and accessories - automation kit not included (can be ordered separately).



## Selecting the correct model

| CONFIGURATION          | IN LINE |        |   |        |        |   |         |        |        | IN PARALLEL |        |         |        |
|------------------------|---------|--------|---|--------|--------|---|---------|--------|--------|-------------|--------|---------|--------|
| TANKS DIAMETER         | 600 mm  |        |   | 900 mm |        |   | 1200 mm |        |        | 900 mm      |        | 1200 mm |        |
| NUMBER OF ELEMENTS     | 2       | 3      | 4 | 2      | 3      | 4 | 2       | 3      | 4      | 4           | 6      | 4       | 6      |
| BACK-UP FILTER         | 1 x 3"  | 1 x 4" |   |        | 1 x 6" |   |         | 1 x 8" | 2 x 6" | 1 x 6"      | 2 x 6" |         | 3 x 6" |
| TYPE OF BACK-UP FILTER | EPV     |        |   |        |        |   |         |        |        |             |        |         |        |
| CONNECTIONS            | 3"      | 4"     |   |        | DN150  |   |         | DN200  |        | DN150       | DN200  |         | DN250  |

| General Specifications | CONNECTION TYPE                       | Threaded Female |      |       |       |       |       | Flanged |       |       |       |       |       |       |
|------------------------|---------------------------------------|-----------------|------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|
|                        | NOMINAL PRESSURE                      | 8 bar           |      |       |       |       |       |         |       |       |       |       |       |       |
|                        | FILTERING SURFACE (cm <sup>2</sup> )  | 5600            | 8400 | 11200 | 12800 | 19200 | 25600 | 22600   | 33900 | 45200 | 25600 | 38400 | 45200 | 67800 |
|                        | QUANTITY OF SAND (kg)                 | 300             | 450  | 600   | 700   | 1050  | 1400  | 1600    | 2400  | 3200  | 1400  | 2100  | 3200  | 4800  |
|                        | NOMINAL FLOW RATE (m <sup>3</sup> /h) | 40              | 60   | 80    | 80    | 120   | 160   | 140     | 210   | 280   | 160   | 250   | 280   | 420   |

## Compatible automation kit ACCESSORIES (to be ordered separately)

| Number of Filters | KTB             | KPB | KFB | KCB           | KFA | KCA |
|-------------------|-----------------|-----|-----|---------------|-----|-----|
|                   | Latch Solenoids |     |     | 24V Solenoids |     |     |
| 1                 | ✓               | ✓   | ✓   | ✓             | ✓   | ✓   |
| 2                 | ✓               | ✓   | ✓   | ✓             | ✓   | ✓   |
| 3                 | ✓               | ✓   | ✓   | ✓             | ✓   | ✓   |
| 4                 | ✓               | ✓   | ✓   | ✓             | ✓   | ✓   |
| 5                 |                 | ✓   | ✓   | ✓             | ✓   | ✓   |
| 6                 |                 |     | ✓   | ✓             | ✓   | ✓   |

### KFB



| Ref.       | Description              |
|------------|--------------------------|
| IFKFBS0210 | 2 outlets - 12VDC latch  |
| IFKFBS0310 | 3 outlets - 12VDC latch  |
| IFKFBS0410 | 4 outlets - 12VDC latch  |
| IFKFBS0510 | 5 outlets - 12VDC latch  |
| IFKFBS0610 | 6 outlets - 12VDC latch  |
| IFKFBS0710 | 7 outlets - 12VDC latch  |
| IFKFBS0810 | 8 outlets - 12VDC latch  |
| IFKFBS0910 | 9 outlets - 12VDC latch  |
| IFKFBS1010 | 10 outlets - 12VDC latch |

### KTB



| Ref.       | Description             |
|------------|-------------------------|
| IFKTBS011M | 1 outlet - 12VDC latch  |
| IFKTBS021M | 2 outlets - 12VDC latch |
| IFKTBS031M | 3 outlets - 12VDC latch |
| IFKTBS041M | 4 outlets - 12VDC latch |

### KCA



| Ref.       | Description             |
|------------|-------------------------|
| IFKCBS021M | 2 outlets - 12VDC latch |
| IFKCBS031M | 3 outlets - 12VDC latch |
| IFKCBS041M | 4 outlets - 12VDC latch |
| IFKCBS051M | 5 outlets - 12VDC latch |
| IFKCBS061M | 6 outlets - 12VDC latch |
| IFKCBS071M | 7 outlets - 12VDC latch |

### KCB



| Ref.       | Description             |
|------------|-------------------------|
| IFKCBS021M | 2 outlets - 12VDC latch |
| IFKCBS031M | 3 outlets - 12VDC latch |
| IFKCBS041M | 4 outlets - 12VDC latch |
| IFKCBS051M | 5 outlets - 12VDC latch |
| IFKCBS061M | 6 outlets - 12VDC latch |
| IFKCBS071M | 7 outlets - 12VDC latch |

### KPB



| Ref.       | Description             |
|------------|-------------------------|
| IFKPBS021M | 2 outlets - 12VDC latch |
| IFKPBS031M | 3 outlets - 12VDC latch |
| IFKPBS041M | 4 outlets - 12VDC latch |
| IFKPBS051M | 5 outlets - 12VDC latch |
| IFKPBS061M | 6 outlets - 12VDC latch |
| IFKPBS071M | 7 outlets - 12VDC latch |
| IFKPBS081M | 8 outlets - 12VDC latch |

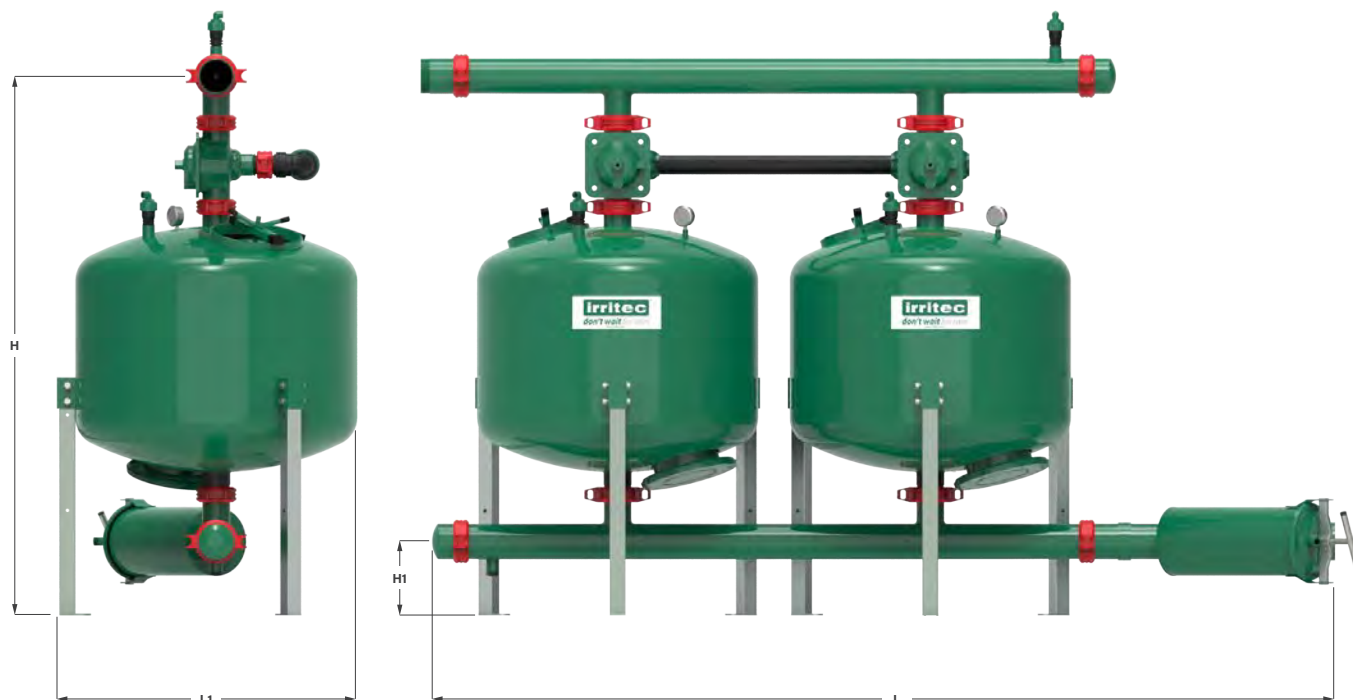
### KFA



| Ref.       | Description        |
|------------|--------------------|
| IFKFAU0210 | 2 outlets - 24VAC  |
| IFKFAU0410 | 4 outlets - 24VAC  |
| IFKFAU0610 | 6 outlets - 24VAC  |
| IFKFAU0810 | 8 outlets - 24VAC  |
| IFKFAU1010 | 10 outlets - 24VAC |

**HCV**

**SAND MEDIA  
FILTERS**

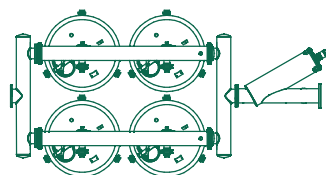


**HCV "In line" models**



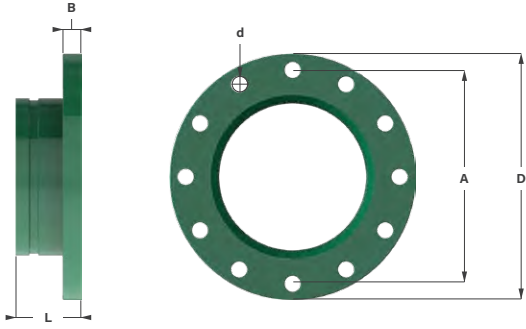
| Configuration | Code          | Nominal flow rate (m³/h) | Connections |                 | L (mm) | L1 (mm) | H (mm) | H1 (mm) |     |
|---------------|---------------|--------------------------|-------------|-----------------|--------|---------|--------|---------|-----|
| 2 x 600       | IFHCV6202PIHI | 40                       | 3"          | threaded female | 2700   | 1150    | 610    | 335     |     |
| 3 x 600       | IFHCV6203PLHI | 60                       |             |                 | 3600   |         |        |         |     |
| 4 x 600       | IFHCV6204PLHI | 80                       |             |                 | 4400   |         |        |         |     |
| 2 x 900       | IFHCV9302PLHI | 80                       | 4"          | threaded female | 3200   | 1200    | 1510   | 180     |     |
| 3 x 900       | IFHCV9303PPFI | 120                      |             |                 | DN 150 |         | 4500   | 1570    | 210 |
| 4 x 900       | IFHCV9304PPFI | 160                      |             |                 |        |         | 5500   |         |     |
| 2 x 1200      | IFHCV1402PPFI | 140                      | DN 200      | flanged         | 4100   | 1500    | 1615   | 270     |     |
| 3 x 1200      | IFHCV1403PRFI | 210                      |             |                 | 5000   |         |        |         |     |
| 4 x 1200      | IFHCV1404PRFI | 280                      |             |                 | 6600   |         |        |         |     |

**HCV "In parallel" models**



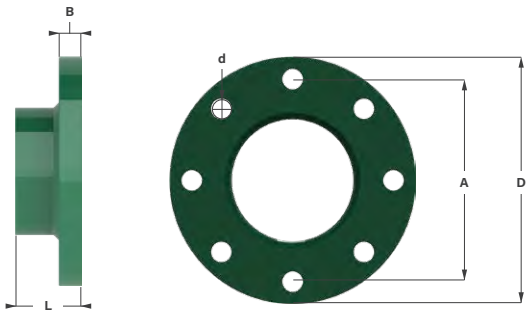
| Configuration | Code          | Nominal flow rate (m³/h) | Connections |         | L (mm) | L1 (mm) | H (mm) | H1 (mm) |
|---------------|---------------|--------------------------|-------------|---------|--------|---------|--------|---------|
| 4 x 900       | IFGCV9304PPFU | 160                      | DN 150      | flanged | 3700   | 2640    | 1570   | 210     |
| 6 x 900       | IFGCV9306PRFU | 250                      | DN 200      |         | 4660   | 2700    | 1710   | 270     |
| 4 x 1200      | IFGCV1404PRFU | 280                      |             |         | 4260   | 3280    |        |         |
| 6 x 1200      | IFGCV1406PTFU | 420                      | DN 250      |         | 6800   | 3340    | 1740   | 310     |

## M10 Flanged/grooved adapter



| Connections | Code         | L (mm) | D (mm) | A (mm) | B (mm) | No. of holes | d (mm) | Weight (kg) |
|-------------|--------------|--------|--------|--------|--------|--------------|--------|-------------|
| DN 80 - 3"  | IFM10V03F03V | 110    | 200    | 160    | 20     | 8            | 18     | 5           |
| DN 80 - 4"  | IFM10V03F04V | 260    | 200    | 160    | 20     | 8            | 18     | 5           |
| DN 100 - 3" | IFM10V04F03V | 260    | 220    | 180    | 22     | 8            | 18     | 6           |
| DN 100 - 4" | IFM10V04F04V | 110    | 220    | 180    | 22     | 8            | 18     | 6           |
| DN 150 - 6" | IFM10V06F06V | 110    | 285    | 240    | 24     | 8            | 22     | 8           |
| DN 200 - 8" | IFM10V08F08V | 90     | 340    | 295    | 24     | 8            | 22     | 10          |

## M11 Flanged adapter/female threaded



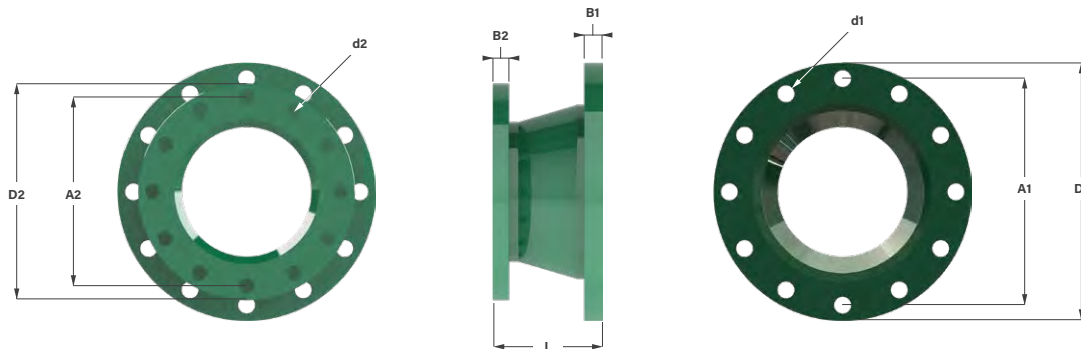
| Connections | Code         | L (mm) | D (mm) | A (mm) | B (mm) | No. of holes | d (mm) | Weight (kg) |
|-------------|--------------|--------|--------|--------|--------|--------------|--------|-------------|
| DN 80 - 3"  | IFM11V03F03H | 55     | 200    | 160    | 20     | 8            | 18     | 5           |
| DN 100 - 4" | IFM11V04F04H | 60     | 220    | 180    | 22     | 8            | 18     | 5           |
| DN 125 - 4" | IFM11V05F04H | 180    | 250    | 210    | 22     | 8            | 18     | 9           |
| DN 125 - 5" | IFM11V05F05H | 65     | 250    | 210    | 22     | 8            | 18     | 6           |

## M14 Grooved plug



| Connections | Code     | L (mm) | Weight (kg) |
|-------------|----------|--------|-------------|
| 2"          | IFM14V02 | 125    | 0.9         |
| 3"          | IFM14V03 | 130    | 1.1         |
| 4"          | IFM14V04 | 135    | 1.9         |
| 6"          | IFM14V06 | 145    | 2.6         |
| 8"          | IFM14V08 | 170    | 3.2         |

## M16 Flanged adapter



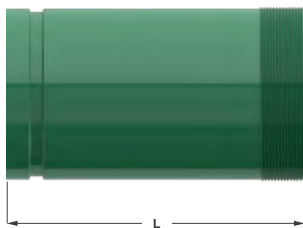
| Connections     | Code         | L1 (mm) | D1 (mm) | A1 (mm) | B1 (mm) | No. of holes 1 | d1 (mm) | D2 (mm) | A2 (mm) | B2 (mm) | No. of holes 2 | d2 (mm) | Weight (kg) |
|-----------------|--------------|---------|---------|---------|---------|----------------|---------|---------|---------|---------|----------------|---------|-------------|
| DN 100 - DN 80  | IFM16V04F03F | 120     | 220     | 180     | 22      | 8              | 18      | 200     | 160     | 20      | 8              | 18      | 10          |
| DN 125 - DN 100 | IFM16V05F04F | 150     | 250     | 210     | 22      | 8              | 18      | 220     | 180     | 22      | 8              | 18      | 11          |
| DN 150 - DN 100 | IFM16V06F04F | 160     | 285     | 240     | 24      | 8              | 22      | 220     | 180     | 22      | 8              | 18      | 13          |
| DN 150 - DN 125 | IFM16V06F05F | 160     | 285     | 240     | 24      | 8              | 22      | 250     | 210     | 22      | 8              | 18      | 15          |
| DN 200 - DN 150 | IFM16V08F06F | 160     | 340     | 295     | 24      | 8              | 22      | 285     | 240     | 24      | 8              | 22      | 20          |
| DN 250 - DN 200 | IFM16V10F08F | 160     | 395     | 350     | 26      | 12             | 22      | 340     | 295     | 24      | 8              | 22      | 25          |

## M21 Grooved adapter/female threaded



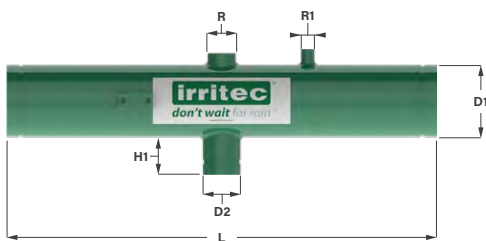
| Connections | Code         | L (mm) | Weight (kg) |
|-------------|--------------|--------|-------------|
| 2"          | IFM21V02H02V | 130    | 1.1         |
| 3"          | IFM21V03H03V | 135    | 1.3         |
| 4"          | IFM21V04H04V | 145    | 1.9         |

## M22 Grooved adapter/female threaded



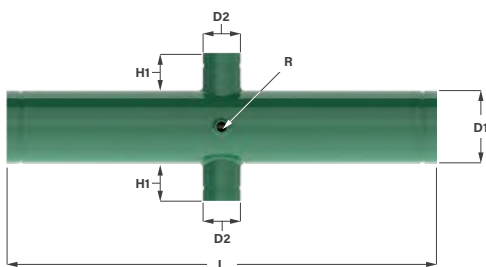
| Connections | Code         | L (mm) | Weight (kg) |
|-------------|--------------|--------|-------------|
| 2"          | IFM22V02M02V | 200    | 1.5         |
| 3"          | IFM22V03M03V | 200    | 1.6         |
| 4"          | IFM22V04M04V | 200    | 1.8         |

## FCV Single outlet manifold with threaded outlets for pressure tapping and venting



| D1 (inch) |         | D2 (inch) |         | Code          | H1 (mm) | R (inch) | R1 (inch) | L (mm) | Weight (kg) |
|-----------|---------|-----------|---------|---------------|---------|----------|-----------|--------|-------------|
| 3"        | grooved | 2"        | grooved | IFFCV0401IV2V | 90      | 1"       | 3/4"      | 800    | 6           |
| 4"        | grooved | 2"        | grooved | IFFCV0401LV2V | 90      | 1"       | 3/4"      | 800    | 8           |
| 4"        | grooved | 3"        | grooved | IFFCV0501LV3V | 80      | 2"       | 3/4"      | 1000   | 10          |
| 6"        | grooved | 3"        | grooved | IFFCV0501PV3V | 80      | 2"       | 3/4"      | 1000   | 17          |
| 6"        | grooved | 4"        | grooved | IFFCV0661PV4V | 80      | 2"       | 3/4"      | 1320   | 23          |
| DN 200    | flanged | 4"        | grooved | IFFCV0661BF4V | 85      | 2"       | 3/4"      | 1320   | 49          |

## FCV Double outlet manifold with threaded outlets for pressure tapping



| D1 (inch) |         | D2 (inch) |         | Code          | H1 (mm) | R (inch) | L (mm) | Weight (kg) |
|-----------|---------|-----------|---------|---------------|---------|----------|--------|-------------|
| 6"        | grooved | 3"        | grooved | IFFDV0501PV3V | 85      | 3/4"     | 1000   | 18          |
| DN 200    | flanged | 3"        | grooved | IFFDV0501BF3V | 90      | 3/4"     | 1000   | 45          |
| DN 200    | flanged | 4"        | grooved | IFFDV0661BF4V | 85      | 3/4"     | 1320   | 53          |
| DN 250    | flanged | 4"        | grooved | IFFDV0661TF4V | 85      | 3/4"     | 1320   | 74          |

# SAND MEDIA

## DUAL FILTERS



### Advantages

- ✓ Sand filtration unit **compact and autonomous**
- ✓ **Easy to transport**
- ✓ **Completely automatable**
- ✓ **High filtering surface area**
- ✓ **Robust** and durable construction.

### Principle of operation

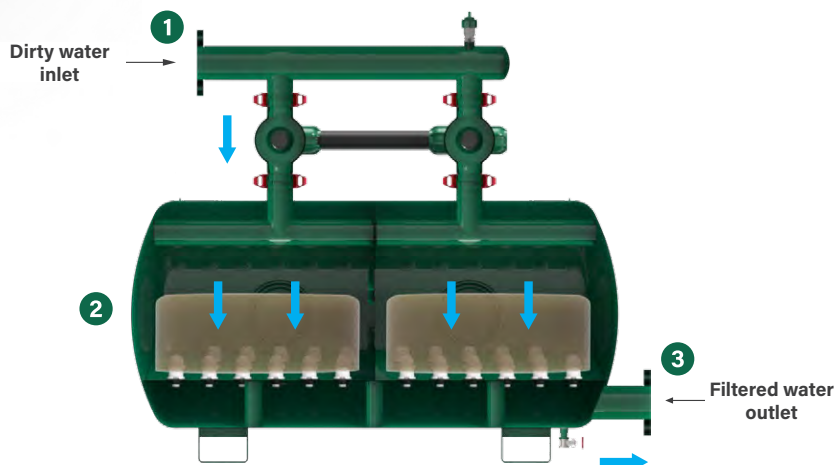
#### Filtration stage

1. Dirty water enters through the inlet manifold
2. As it passes through the sand bed, the impurities are trapped
3. The filtered water exits through the outlet manifold

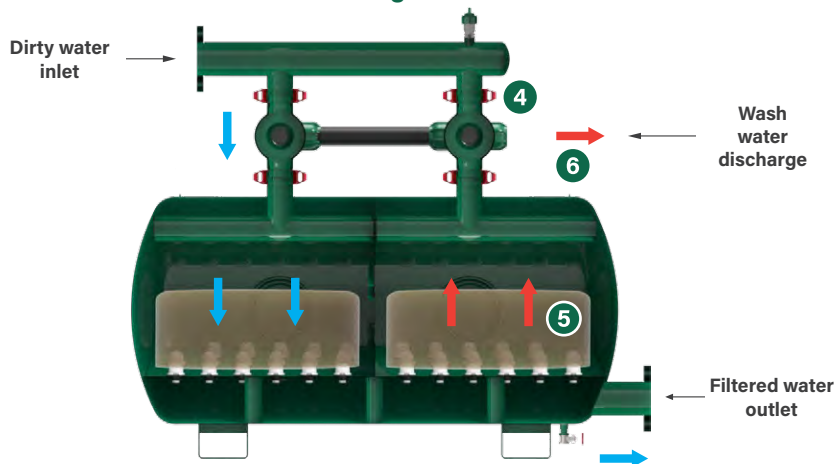
#### Backwash stage

4. One of the 3-way valves switches to the wash stage, (on command by the Control Unit)
5. The water flows in the opposite direction, in the relative chamber, removing the collected impurities (backwashing).
6. The impurities are discharged with the wash water through the discharge manifold.

### Filtration stage



### Backwash stage



# SAND MEDIA

## DUAL FILTERS

### PRODUCT RANGE: Dual chamber and Four chamber



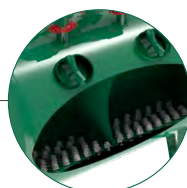
#### ER - Dual chamber - plate drainage

- Drainage consisting of a PLATE and "mushroom" diffusers
- Models from 2" to DN125
- "Standard" lateral water outlet
- Robustness and transportability



#### EM - Dual Chamber Maxi Flow

- Drainage consisting of "maxi flow" diffusers
- Models from 2" to DN125
- Central water outlet - allows for more compact installations
- Lightweight design - increased filter bed height



#### EQ3V Four chamber

- Drainage consisting of a PLATE and "mushroom" diffusers
- Special DN150 model
- Handles high flow rates (up to 160 m<sup>3</sup>/h) in a single compact body
- Robustness and transportability

**ER**

**SAND MEDIA**  
DUAL FILTERS

**Description**

Dual chamber sand media filter with "plate" and "mushroom" diffuser drainage. It combines the functions of a dual chamber sand media filter in a compact and transportable body. Ideal for treating difficult waters (high turbidity, presence of algae and other organic residues) in medium-sized systems.



**Flow rate**  
10 - 100 m<sup>3</sup>/h



**Filtering Surface**  
3490 - 15000 cm<sup>2</sup>



**Diameters**  
1"1/2 - 5" (DN125)



**Advantages**

- ✓ **"Plate" drainage system** with very high efficiency in both the filtration and wash stages
- ✓ **Sturdy construction** with high gauge metal.
- ✓ **High surface area filtration** in a compact and transportable body
- ✓ **Large inspection and load hatches**, for easier maintenance and use

**Construction materials**

|                          |  |
|--------------------------|--|
| <b>FILTER BODY</b>       | Structural steel                                     |
| <b>MANIFOLDS</b>         | Structural steel                                     |
| <b>COATING</b>           | Polyester powder coating (min. thickness 160 micron) |
| <b>DIFFUSERS</b>         | Polypropylene  |
| <b>FILTERING ELEMENT</b> | Sand (recommended grain size: 0.8 - 1.2 mm)          |
| <b>GASKETS</b>           | EPDM   |
| <b>ACCESSORIES</b>       | Polypropylene  |

**Conditions of use**



|                        |                          |
|------------------------|--------------------------|
| <b>PH RANGE</b>        | 4 < pH < 11              |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F           |
| <b>MAX PRESSURE</b>    | 8 bar at 20°C            |
| <b>MIN PRESSURE</b>    | 2.5 bar (backwash stage) |



**ER**


**SAND MEDIA**  
DUAL FILTERS

**Selecting the correct model**

|                        |  |  |                      |                           |                       |                       |
|------------------------|--|--|----------------------|---------------------------|-----------------------|-----------------------|
| General Specifications | BODY DIAMETER  | 400 mm   | 500 mm               | 600 mm                    | 750 mm                | 850 mm                |
|                        | CONNECTIONS  | 1 1/2"   | 2"                   | 3"                        | 4"                    | 5"                    |
|                        | CONNECTION TYPE  | Threaded Female  |                      | Threaded Female - Flanged |                       | Flanged               |
|                        | QUANTITY OF SAND   | 60 kg  | 120 kg               | 200 kg                    | 450 kg                | 600 kg                |
|                        | FILTERING SURFACE  | 3490 cm <sup>2</sup>   | 4910 cm <sup>2</sup> | 6630 cm <sup>2</sup>      | 11040 cm <sup>2</sup> | 15050 cm <sup>2</sup> |
|                        | MAXIMUM FLOW RATE  | 11 m <sup>3</sup> /h   | 30 m <sup>3</sup> /h | 60 m <sup>3</sup> /h      | 80 m <sup>3</sup> /h  | 110 m <sup>3</sup> /h |
|                        | FILTERING CAPACITY   | VERY HIGH  |                      |                           |                       |                       |
| Backwash Data          | MINIMUM FLOW RATE  | 7 m <sup>3</sup> /h  | 10 m <sup>3</sup> /h | 14 m <sup>3</sup> /h      | 22 m <sup>3</sup> /h  | 30 m <sup>3</sup> /h  |
|                        | MINIMUM PRESSURE   | 2.5 bar  |                      |                           |                       |                       |
|                        | MIN TIME BACKWASH  | 60 - 120 sec.  |                      |                           |                       |                       |
|                        | BACKWASH CRITERIA  | ΔP max 0.5 bar - washing cycles according to water quality     |                      |                           |                       |                       |
| Applications           | <br>AGRICULTURE | Primary filtration of "Difficult" water - medium-large systems |                      |                           |                       |                       |
|                        | <br>LANDSCAPE  |  |                      |                           |                       |                       |


**Compatible automation kits**  
(to be ordered separately)

**KTB**




| Ref.       | Description             |
|------------|-------------------------|
| IFKTBS02IM | 2 outlets - 12VDC latch |

**KFA**




| Ref.       | Description       |
|------------|-------------------|
| IFKFAU02IO | 2 outlets - 24VAC |

**KPB**






| Ref.       | Description             |
|------------|-------------------------|
| IFKPBS02IM | 2 outlets - 12VDC latch |

**KFB**



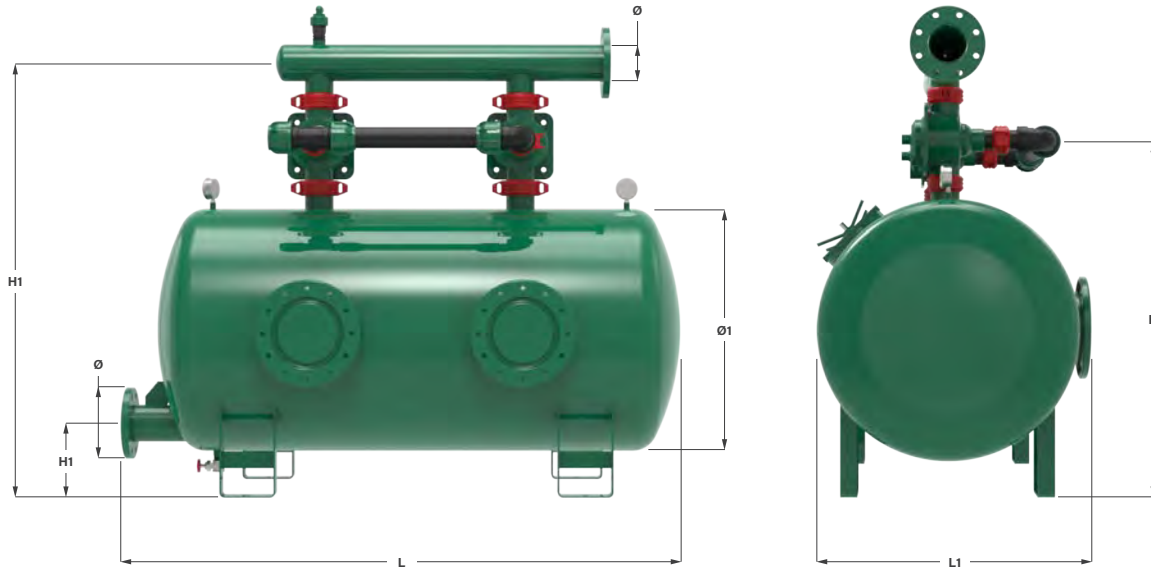
| Ref.      | Description             |
|-----------|-------------------------|
| IFKFB02IO | 2 outlets - 12VDC latch |

**DUAL CHAMBER FILTER: CONTROL VALVE OPTIONS**

| FILTER BODY AND MANIFOLD  | BALL VALVE KIT (MANUAL)   | 3-WAY VALVE KIT (AUTOMATABLE)   |
|---|---|---|
|  |  |  |
| IFERV15H  |   |   |
| OFER3V20H   |   |   |
| OFER3V30H   | OFKMRV0GI   | IFKMV02G  |
| OFER3V30F   |   |   |
| OFER3V40H   |   |   |
| OFER3V40F   | OFKMRV0LM   | IFKMV02I  |
| OFER3V50F   |   |   |

**ER**

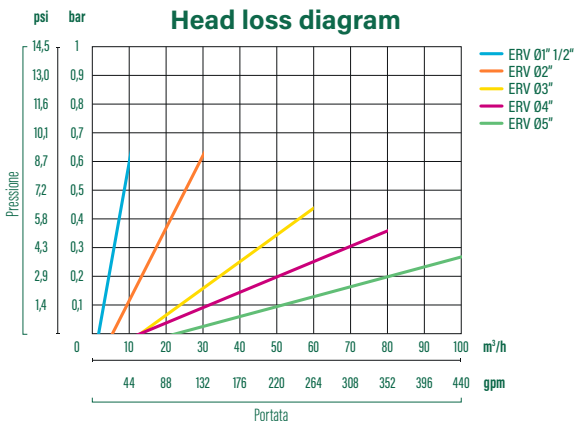
**SAND MEDIA**  
DUAL FILTERS



| Ø body (mm) | Connections |                 | Code      | Number of Nozzles | Filtration Surface (cm <sup>2</sup> ) | Flow rate (m <sup>3</sup> /h) | L (mm) | H (mm) | H1 (mm) | H2 (mm) | Weight (kg) |
|-------------|-------------|-----------------|-----------|-------------------|---------------------------------------|-------------------------------|--------|--------|---------|---------|-------------|
| 400         | 1 1/2"      | threaded female | IFERV15H  | 16                | 3490                                  | 5÷11                          | 900    | 470    | 190     | 910     | 68          |
| 500         | 2"          | threaded female | IFER3V20H | 38                | 4910                                  | 10÷30                         | 1160   | 570    | 190     | 1020    | 100         |
| 600         | 3"          | threaded female | IFER3V30H | 46                | 6630                                  | 30÷60                         | 1350   | 670    | 245     | 1220    | 150         |
| 600         |             | flanged         | IFER3V30F |                   |                                       | 30÷60                         | 1330   |        |         |         | 140         |
| 750         | 4"          | threaded female | IFER3V40H | 68                | 11040                                 | 40÷80                         | 1730   | 820    | 245     | 1430    | 260         |
| 750         |             | flanged         | IFER3V40F |                   |                                       | 40÷80                         | 1700   |        |         |         | 270         |
| 850         | 5"          | flanged         | IFER3V50F | 86                | 15050                                 | 70÷110                        | 2050   | 920    | 280     | 1550    | 350         |



Diffuser nozzle



**Recommended flow rate (m<sup>3</sup>/h)**  
according to water quality

| Model | Internal Body | Flow rate Maximum | Medium Quality | Poor Quality | Very poor Quality |
|-------|---------------|-------------------|----------------|--------------|-------------------|
| ER    | 2"            | 30                | 25             | 20           | 15                |
|       | 3"            | 60                | 40             | 25           | 20                |
|       | 4"            | 80                | 60             | 45           | 35                |
|       | DN125         | 110               | 90             | 70           | 45                |

**EM**

**SAND MEDIA**  
DUAL FILTERS

**Description**

Dual chamber sand media filter with manifold and "maxi-flow" diffuser drainage. It combines the functions of a dual chamber sand media filter in a compact and transportable body. The unique central outlet design is ideal for compact installations and mounting on a trolley.



**Flow rate**  
10 - 100 m<sup>3</sup>/h



**Filtering Surface**  
4900 - 15000 cm<sup>2</sup>



**Diameters**  
2" - 5" (DN125)

**Advantages**

- ✓ "Maxi-Flow" **drainage system**
- ✓ **Greater volume of sand** compared to other models on the market
- ✓ **High surface area filtration** in a compact and transportable body
- ✓ **Large, easy to open, oval inspection** and load hatches





**Construction materials**

|                          |  |
|--------------------------|--|
| <b>FILTER BODY</b>       | Structural steel                                     |
| <b>MANIFOLDS</b>         | Structural steel                                     |
| <b>COATING</b>           | Polyester powder coating (min. thickness 160 micron) |
| <b>DIFFUSERS</b>         | Polypropylene  |
| <b>FILTERING ELEMENT</b> | Sand (recommended grain size: 0.8 - 1.2 mm)          |
| <b>GASKETS</b>           | EPDM   |
| <b>ACCESSORIES</b>       | Polypropylene  |

**Conditions of use**


|                        |                          |
|------------------------|--------------------------|
| <b>PH RANGE</b>        | 4<pH<11                  |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F           |
| <b>MAX PRESSURE</b>    | 8 bar at 20°C            |
| <b>MIN PRESSURE</b>    | 2.5 bar (backwash stage) |

**Selecting the correct model**

|                        |  |  |                      |                       |                       |
|------------------------|--|--|----------------------|-----------------------|-----------------------|
| General Specifications | BODY DIAMETER  | 500 mm   | 600 mm               | 750 mm                | 850 mm                |
|                        | CONNECTIONS  | 2"   | 3"                   | 4"                    | 5"                    |
|                        | CONNECTION TYPE  | Threaded Female  |                      | Flanged               |                       |
|                        | QUANTITY OF SAND   | 150 kg   | 250 kg               | 500 kg                | 700 kg                |
|                        | FILTERING SURFACE  | 4910 cm <sup>2</sup>                                       | 6630 cm <sup>2</sup> | 11040 cm <sup>2</sup> | 15050 cm <sup>2</sup> |
|                        | MAXIMUM FLOW RATE  | 30 m <sup>3</sup> /h                                       | 60 m <sup>3</sup> /h | 80 m <sup>3</sup> /h  | 110 m <sup>3</sup> /h |
|                        | FILTERING CAPACITY   | VERY HIGH  |                      |                       |                       |
|                        | Backwash Data  | MINIMUM FLOW RATE  | 10 m <sup>3</sup> /h | 14 m <sup>3</sup> /h  | 22 m <sup>3</sup> /h  |
| MINIMUM PRESSURE       |  | 2.5 bar  |                      |                       |                       |
| MIN TIME BACKWASH      |  | 60 - 120 sec.  |                      |                       |                       |
| BACKWASH CRITERIA      |  | ΔP max 0.5 bar - washing cycles according to water quality |                      |                       |                       |
| Applications           | <br>AGRICULTURE | Primary filtration of "Difficult" water                    |                      |                       |                       |
|                        | <br>LANDSCAPE  |  |                      |                       |                       |


**Compatible automation kits**  
(to be ordered separately)

**KTB**




| Ref.       | Description             |
|------------|-------------------------|
| IFKTBS02IM | 2 outlets - 12VDC latch |

**KFA**




| Ref.       | Description       |
|------------|-------------------|
| IFKFAU0210 | 2 outlets - 24VAC |

**KPB**






| Ref.      | Description             |
|-----------|-------------------------|
| IFKPB02IM | 2 outlets - 12VDC latch |

**KFB**



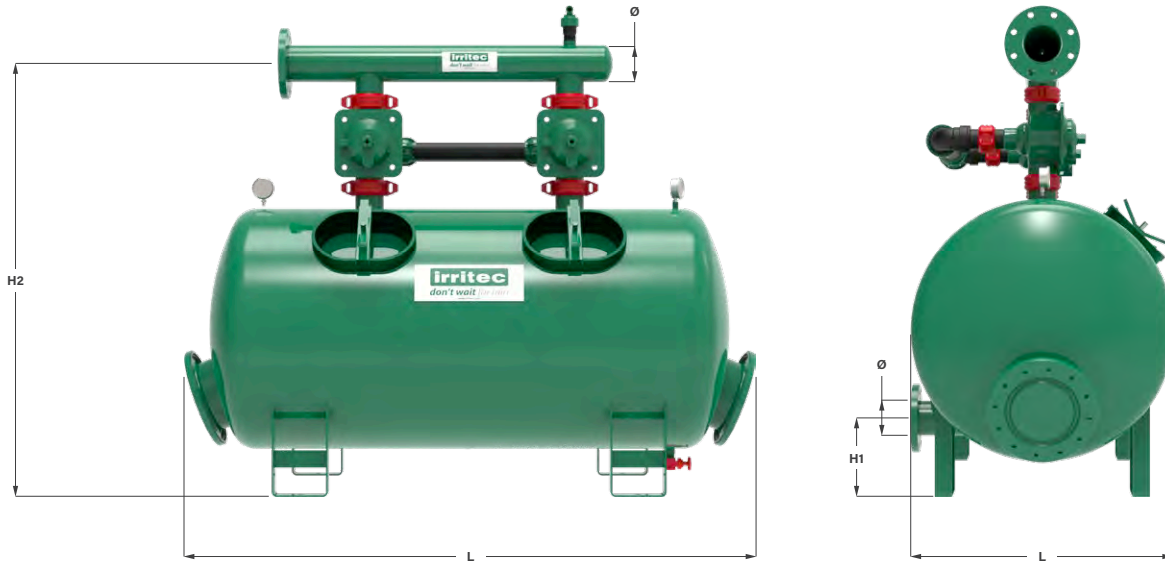
| Ref.      | Description             |
|-----------|-------------------------|
| IFKFB0210 | 2 outlets - 12VDC latch |

**DUAL CHAMBER FILTER: CONTROL VALVE OPTIONS**

| FILTER BODY AND MANIFOLD  | BALL VALVE KIT (MANUAL)   | 3-WAY VALVE KIT (AUTOMATABLE)   |
|---|---|---|
|  |  |  |
| IFERV15H  |   |   |
| 0FEM3V20H   | 0FKMRV0GI   | IFKMV02G  |
| 0FEM3V30H   |   |   |
| 0FEM3V40F   | 0FKMRV0LM   | IFKMV02I  |
| 0FEM3V50F   |   |   |

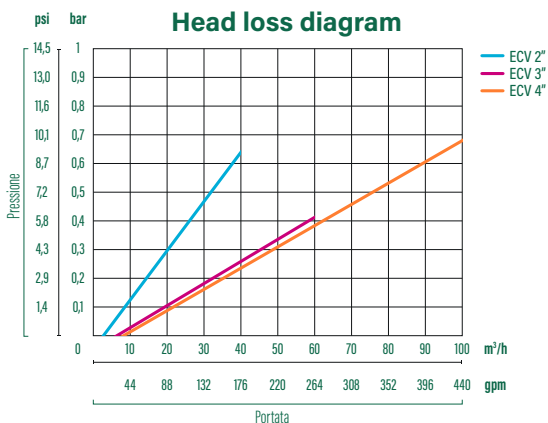
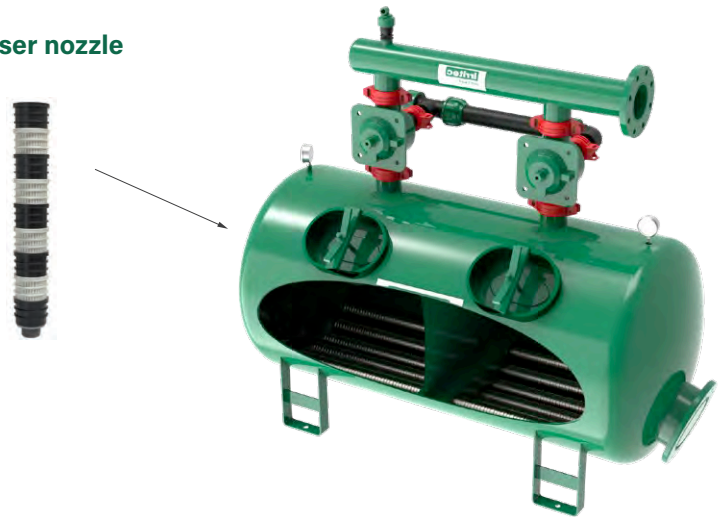
**EM**

**SAND MEDIA**  
DUAL FILTERS



| Ø body (mm) | Connections |                 | Code      | Number Nozzles | Nozzle Length (mm) | Flow rate (m³/h) | L (mm) | L1 (mm) | H1 (mm) | H2 (mm) | Weight (kg) |
|-------------|-------------|-----------------|-----------|----------------|--------------------|------------------|--------|---------|---------|---------|-------------|
| 500         | 2"          | threaded female | 0FEM3V20H | 6              | 383                | 10÷30            | 1250   | 550     | 190     | 1020    | 100         |
| 600         | 3"          | threaded female | 0FEM3V30H | 12             | 420                | 30÷60            | 1450   | 650     | 245     | 1220    | 150         |
| 750         | 4"          | flanged         | 0FEM3V40F | 14             | 602                | 40÷80            | 1850   | 800     | 245     | 1430    | 270         |
| 850         | 5"          | flanged         | 0FEM3V50F | 18             | 712                | 70÷110           | 2150   | 900     | 280     | 1550    | 350         |

**Diffuser nozzle**



**Recommended flow rate (m³/h) according to water quality**

| Model | Internal Body | Flow rate Maximum | Medium Quality | Poor Quality | Very poor Quality |
|-------|---------------|-------------------|----------------|--------------|-------------------|
| EM    | 2"            | 30                | 25             | 20           | 15                |
|       | 3"            | 60                | 40             | 25           | 20                |
|       | 4"            | 80                | 60             | 45           | 35                |
|       | 5"            | 110               | 90             | 70           | 45                |

**EQ3V**

**SAND MEDIA**  
DUAL FILTERS

**Description**

Four chamber sand media filter with plate and "mushroom" diffuser drainage. It combines the functions of a sand media filter battery in a compact and transportable body. Complete with 3-way valves and ready to be automated.



**Flow rate**  
80 - 160 m<sup>3</sup>/h



**Filtration Surface**  
22700 cm<sup>2</sup>



**Diameters**  
6" (DN150)



**Advantages**

- ✓ Unique **four chamber** DN150 model
- ✓ Handles high capacities while maintaining a **compact and transportable structure.**
- ✓ Large, easy to open, **oval inspection and load hatches**

**Construction materials**

|                          |  |
|--------------------------|--|
| <b>FILTER BODY</b>       | Structural steel                                     |
| <b>MANIFOLDS</b>         | Structural steel                                     |
| <b>COATING</b>           | Polyester powder coating (min. thickness 160 micron) |
| <b>DIFFUSERS</b>         | Polypropylene  |
| <b>FILTERING ELEMENT</b> | Sand (recommended grain size: 0.8 - 1.2 mm)          |
| <b>GASKETS</b>           | EPDM   |
| <b>ACCESSORIES</b>       | Polypropylene  |

**Conditions of use**

|                        |                          |
|------------------------|--------------------------|
| <b>PH RANGE</b>        | 4<pH<11                  |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F           |
| <b>MAX PRESSURE</b>    | 8 bar at 20°C            |
| <b>MIN PRESSURE</b>    | 2.5 bar (backwash stage) |



**EQ3V**

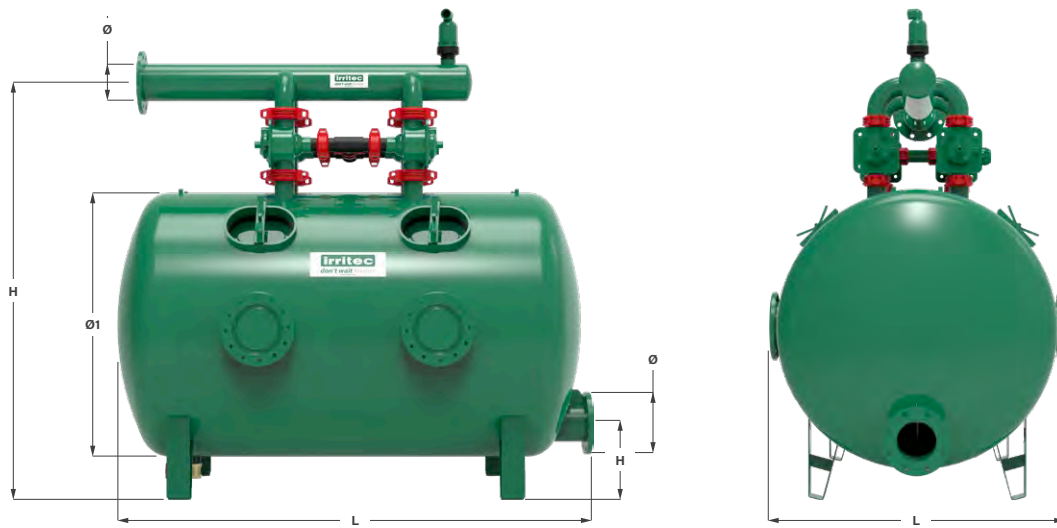
**SAND MEDIA**  
DUAL FILTERS

Selecting the correct model

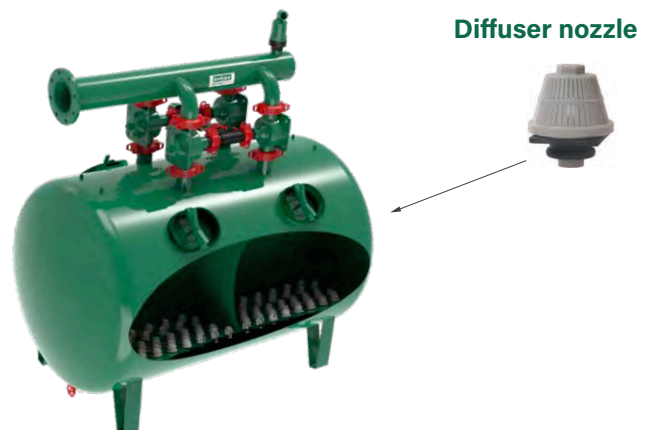
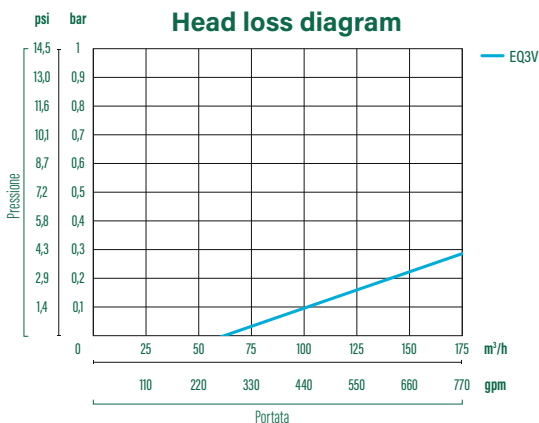
|                        |                    |                       |
|------------------------|--------------------|-----------------------|
| General Specifications | BODY DIAMETER      | 1200 mm               |
|                        | CONNECTIONS        | 6"                    |
|                        | CONNECTION TYPE    | Flanged               |
|                        | QUANTITY OF SAND   | 1600 kg               |
|                        | FILTERING SURFACE  | 22700 cm <sup>2</sup> |
|                        | MAXIMUM FLOW RATE  | 160 m <sup>3</sup> /h |
|                        | FILTERING CAPACITY | VERY HIGH             |

|               |                   |  |
|---------------|-------------------|--|
| Backwash Data | MINIMUM FLOW RATE | 35 m <sup>3</sup> /h                                       |
|               | MINIMUM PRESSURE  | 2.5 bar  |
|               | MIN TIME BACKWASH | 60 - 120 sec.  |
|               | BACKWASH CRITERIA | ΔP max 0.5 bar - washing cycles according to water quality |


|              |  |  |
|--------------|--|--|
| Applications | <br>AGRICULTURE | Primary filtration of "difficult" water - medium-large systems |
|              | <br>LANDSCAPE  |  |



| Ø body (mm) | Connections |         | Code      | Number of Nozzles | Flow rate (m <sup>3</sup> /h) | L (mm) | L1 (mm) | H1 (mm) | H2 (mm) | Weight (kg) |
|-------------|-------------|---------|-----------|-------------------|-------------------------------|--------|---------|---------|---------|-------------|
| 1200        | 6"          | flanged | IFEQ3V60F | 192               | 80÷160                        | 2200   | 1350    | 300     | 1850    | 860         |



# METAL SCREEN FILTERS

  
**Flow rate**  
Up to 300 m<sup>3</sup>/h

  
**Filtering Surface**  
960 - 6028 cm<sup>2</sup>

  
**Diameters**  
2" - 8"

**75**  
(200 micron)

**120**  
(130 micron)

**155**  
(100 micron)

## Advantages

- ✓ **Sturdy construction** with high gauge steel.
- ✓ **Wide range of models** Traditional and Semi-automatic
- ✓ **"Handwheel" opening** on all models to facilitate the opening and closing of the filter



### Construction materials

|                          |  |
|--------------------------|--|
| <b>FILTER BODY</b>       | Structural steel   |
| <b>MANIFOLDS</b>         | Structural steel   |
| <b>COATING</b>           | Polyester powder coating<br>(min. thickness 160 micron)                    |
| <b>FILTERING ELEMENT</b> | Stainless steel screen (standard grade 120 mesh) on perforated PVC support |
| <b>GASKETS</b>           | EPDM   |

### Conditions of use

|                        |                |
|------------------------|----------------|
| <b>PH RANGE</b>        | 4<pH<11        |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>    | 8 bar at 20°C  |



# METAL SCREEN FILTERS

## Selecting the correct model

| MODEL                  | EDV90               | EDV  | ESV   | EPV90                                  | EPV             |                 |
|------------------------|---------------------|--|---|--|-----------------|-----------------|
| FILTERING ELEMENT      | Discs               |  | Polyester Screen + Stainless Steel Cylinder   | Stainless Steel Screen + PVC Structure |                 |                 |
| General Specifications | DIAMETERS           | 2" - 4"  |   | 2" - 5"                                | 2" - 6"         | 2" - 8"         |
|                        | CONNECTIONS         | Threaded Female  | Threaded Female - Flanged (according to size) |  |                 |                 |
|                        | FILTRATION DEGREES  | 75 - 120 - 155 mesh   200 - 130 - 100 micron   |   |  |                 |                 |
|                        | RANGE OF FLOW RATES | 15 - 80 m³/h   |   | 15 - 110 m³/h                          | 15 - 150 m³/h   | 15 - 300 m³/h   |
|                        | FILTERING SURFACE   | 1196 - 1868 cm²  |   | 1260 - 4769 cm²                        | 1055 - 4929 cm² | 1055 - 6028 cm² |
| Applications           | AGRICULTURE         | Secondary filtration (back-up filter)<br>Primary filtration of good quality well water |   |  |                 |                 |
|                        | LANDSCAPE           | Primary Filtration of good quality water   |   |  |                 |                 |

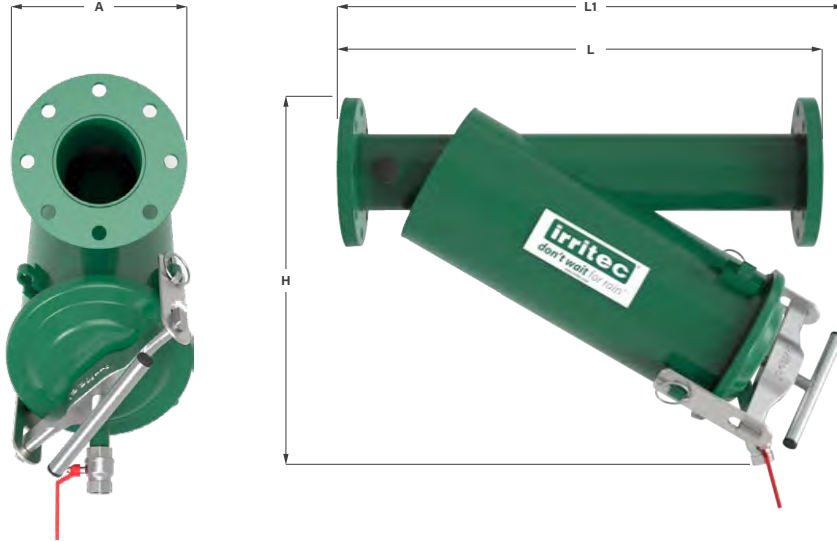


**EPV**

**METAL SCREEN FILTERS**

**Description**

Manual screen filter for in-line installation. Filtering element with stainless steel screen bonded to a perforated PVC cylinder. Available in a wide range of sizes (up to 8"). Sturdy metal construction with handwheel making it easy to open.



| Internal | Connections     | Code       | PN | Flow rate (m³/h) | Filtering Surface (cm²) | Ø body (inch) | L (mm) | L1 (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|-----------------|------------|----|------------------|-------------------------|---------------|--------|---------|--------|--------|-------------|
| 2"       | threaded female | IFEPV20Hyy | 8  | 15÷30            | 1055                    | 6"            | 440    | 530     | 300    | 400    | 11          |
| 3"       | threaded female | IFEPV30Hyy |    |                  |                         |               | 660    | 710     |        | 450    | 17          |
|          | flanged         | IFEPV30Fyy |    | 610              | 660                     |               | 500    | 24      |        |        |             |
| 4"       | threaded female | IFEPV40Hyy |    | 40÷80            | 2318                    | 8"            | 770    | 860     |        | 580    | 25          |
|          | flanged         | IFEPV40Fyy |    |                  |                         |               | 710    | 830     |        | 600    | 34          |
| 5"       | flanged         | IFEPV50Fyy |    | 80÷110           | 3014                    |               | 720    | 940     |        | 650    | 41          |
| 6"       | flanged         | IFEPV60Fyy |    | 110÷150          | 4929                    | 10"           | 1000   | 1100    | 700    | 60     |             |
| 8"       | flanged         | IFEPV80Fyy |    | 150÷300          | 6028                    | 8"            | 800    | 800     | 350    | 1350   | 90          |

**Filtering cartridge**



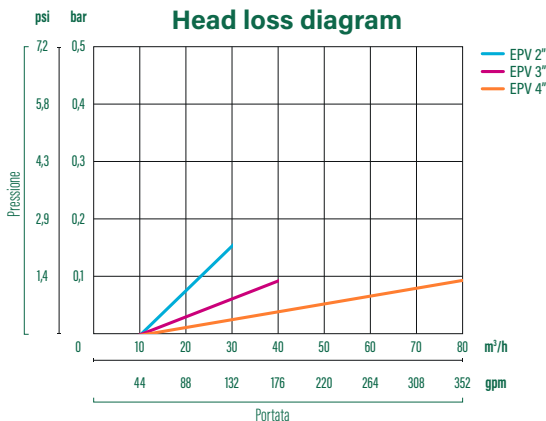
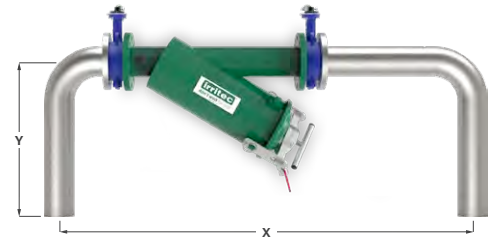
**Filtration degree (mesh)**

yy: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| 08   | 75   | 200    |        |
| 12   | 120  | 130    | Red    |
| 15   | 155  | 100    | Yellow |

**Typical installation**

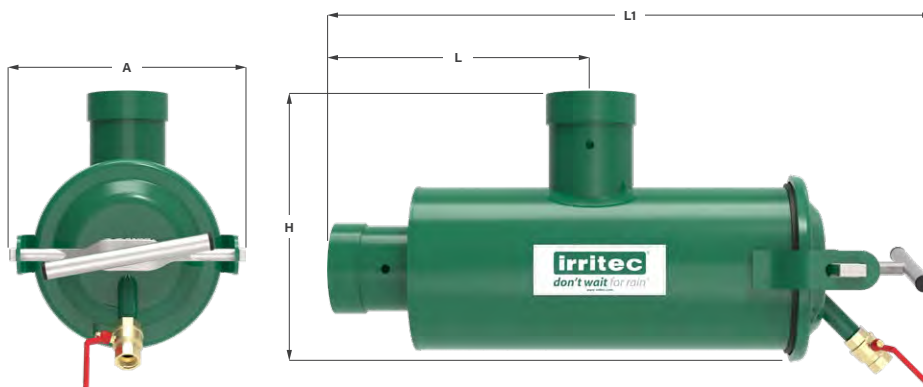
|        | X min (mm) | Y min (mm) |
|--------|------------|------------|
| 2"     | 900        | 400        |
| 3"     | 1000       | 450        |
| DN 80  | 1050       | 450        |
| 4"     | 1650       | 650        |
| DN 100 | 1650       | 650        |
| DN 125 | 2000       | 800        |
| DN 150 | 2200       | 1000       |



# EPV90° METAL SCREEN FILTERS

## Description

Manual screen filter for 90° installation. Filtering element with stainless steel screen bonded to a perforated PVC cylinder. The 90° installation allows the product to be installed with a reduced footprint. Sturdy metal construction with handwheel making it easy to open.



| Internal | Connections     | Code         | PN | Flow rate (m³/h) | Filtering Surface (cm²) | Ø body (inch) | L (mm) | L1 (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|-----------------|--------------|----|------------------|-------------------------|---------------|--------|---------|--------|--------|-------------|
| 2"       | threaded female | IFEPV9020Hyy | 8  | 15÷30            | 1055                    | 6"            | 510    | 230     | 300    | 270    | 12          |
| 3"       | threaded female | IFEPV9030Hyy |    | 25÷40            | 1625                    |               | 660    | 310     |        | 300    | 13          |
| 4"       | threaded female | IFEPV9040Hyy |    | 40÷80            | 2318                    | 8"            | 790    | 360     |        | 360    | 24          |
| 6"       | flanged         | IFEPV9060Fyy |    | 110÷150          | 4929                    | 10"           | 1130   | 530     |        | 440    | 55          |

## Filtering cartridge



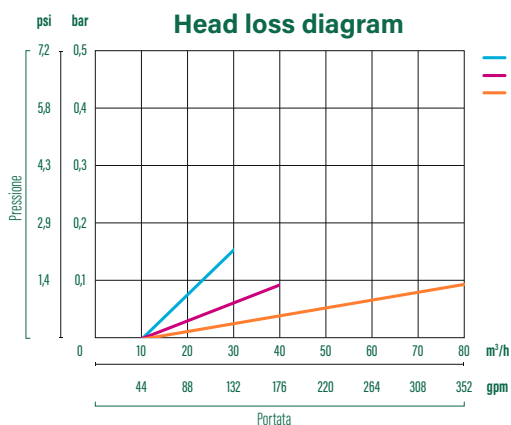
## Filtration degree (mesh)

yy: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| 08   | 75   | 200    |        |
| 12   | 120  | 130    |        |
| 15   | 155  | 100    |        |

## Typical installation

|        | X min (mm) |
|--------|------------|
| 2"     | 650        |
| 3"     | 950        |
| 4"     | 1200       |
| DN 150 | 1800       |

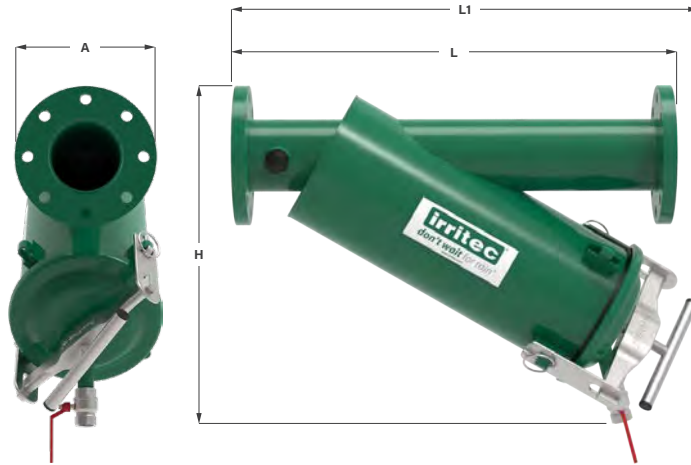


**ESV**

**METAL SCREEN FILTERS**

**Description**

Manual screen filter for in-line installation. Polyester screen filtering element (replaceable) applied to a stainless steel support cylinder. Sturdy metal construction with handwheel making it easy to open.



| Internal | Connections     | Code       | PN | Flow rate (m³/h) | Filtering Surface (cm²) | Ø body (inch) | L (mm) | L1 (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|-----------------|------------|----|------------------|-------------------------|---------------|--------|---------|--------|--------|-------------|
| 2"       | threaded female | IFESV20Hyy | 8  | 15÷30            | 1055                    | 6"            | 440    | 530     | 300    | 400    | 13          |
| 3"       | threaded female | IFESV30Hyy |    | 25÷40            | 1625                    |               | 660    | 710     |        | 450    |             |
|          | flanged         | IFESV30Fyy |    | 610              | 660                     |               | 500    |         |        |        |             |
| 4"       | threaded female | IFESV40Hyy |    | 40÷80            | 2318                    | 8"            | 770    | 860     |        | 580    | 19          |
|          | flanged         | IFESV40Fyy |    | 710              | 830                     |               | 600    | 28      |        |        |             |
| 5"       | flanged         | IFESV50Fyy |    | 80÷110           | 3014                    | 720           | 920    | 650     |        | 38     |             |

**Filtering cartridge**



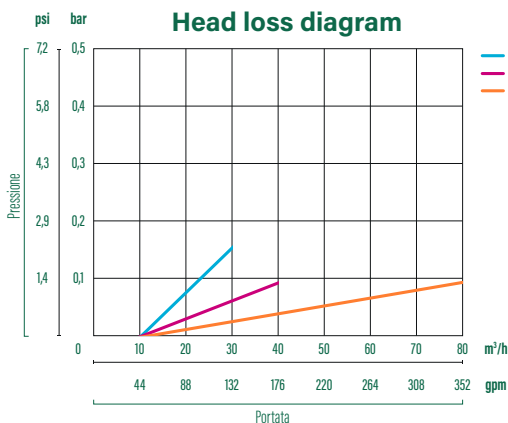
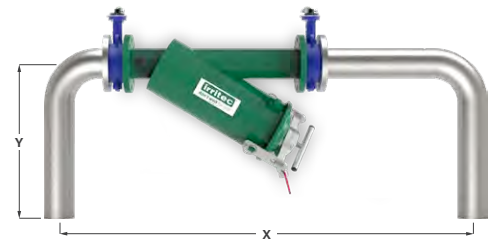
**Filtration degree (mesh)**

yy: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| 08   | 75   | 200    |        |
| 12   | 120  | 130    |        |
| 15   | 155  | 100    |        |

**Typical installation**

|        | X min (mm) | Y min (mm) |
|--------|------------|------------|
| 2"     | 900        | 400        |
| 3"     | 1000       | 450        |
| DN 80  | 1050       | 450        |
| 4"     | 1650       | 650        |
| DN 100 | 1650       | 650        |
| DN 125 | 2000       | 800        |

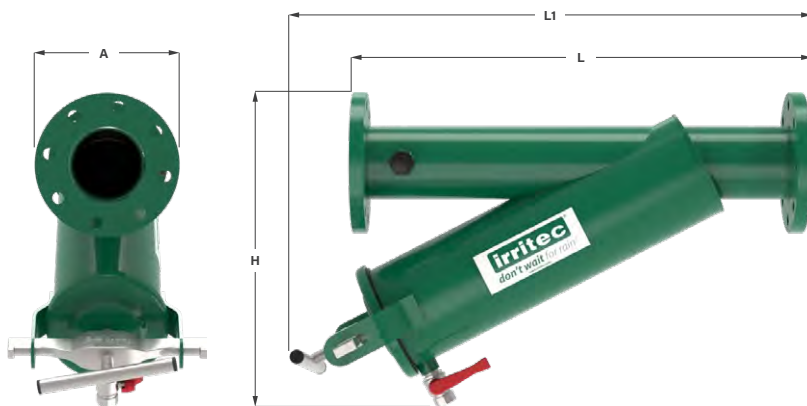


# EDV

## METAL SCREEN FILTERS

### Description

Manual Disc filter for in-line installation. Highly robust polypropylene Disc filtering element with efficient filtration. Sturdy metal construction with handwheel making it easy to open.



| Internal | Connections     | Code       | PN  | Flow rate (m³/h) | Filtering Surface (cm²) | Ø body (inch) | L (mm) | L1 (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|-----------------|------------|-----|------------------|-------------------------|---------------|--------|---------|--------|--------|-------------|
| 2"       | threaded female | IFEDV20Hyy | 8   | 15÷30            | 960                     | 6"            | 440    | 530     | 300    | 400    | 14          |
| 3"       | threaded female | IFEDV30Hyy |     | 25÷40            | 1470                    |               | 660    | 710     |        | 450    | 20          |
|          | flanged         | IFEDV30Fyy |     | 610              | 660                     |               | 500    | 22      |        |        |             |
| 4"       | threaded female | IFEDV40Hyy |     | 40÷80            | 1980                    | 770           | 860    | 580     |        | 23     |             |
|          | flanged         | IFEDV40Fyy | 710 | 830              | 600                     | 32            |        |         |        |        |             |

### Filtering cartridge



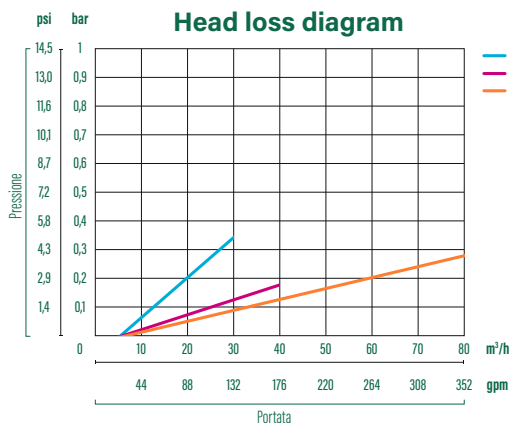
### Filtration degree (mesh)

yy: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| 08   | 75   | 200    |        |
| 12   | 120  | 130    |        |
| 15   | 155  | 100    |        |

### Typical installation

|        | X min (mm) | Y min (mm) |
|--------|------------|------------|
| 2"     | 900        | 400        |
| 3"     | 1000       | 450        |
| DN 80  | 1050       | 450        |
| 4"     | 1650       | 650        |
| DN 100 | 1650       | 650        |



**EDV90° METAL SCREEN FILTERS**

**Description**

Manual Disc filter for 90° installation. Highly robust polypropylene Disc filtering element with efficient filtration. The 90° installation allows the product to be installed with a reduced footprint.



| Internal | Connections     | Code         | PN | Flow rate (m³/h) | Filtering Surface (cm²) | Ø body (inch) | L (mm) | L1 (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|-----------------|--------------|----|------------------|-------------------------|---------------|--------|---------|--------|--------|-------------|
| 2"       | threaded female | IFEDV9020Hyy | 8  | 15÷30            | 960                     | 6"            | 550    | 250     | 300    | 330    | 14          |
| 3"       | threaded female | IFEDV9030Hyy |    | 25÷40            | 1470                    |               | 680    | 320     |        | 360    | 20          |
| 4"       | threaded female | IFEDV9040Hyy |    | 40÷80            | 1980                    | 8"            | 810    | 390     |        | 330    | 25          |

**Filtering cartridge**



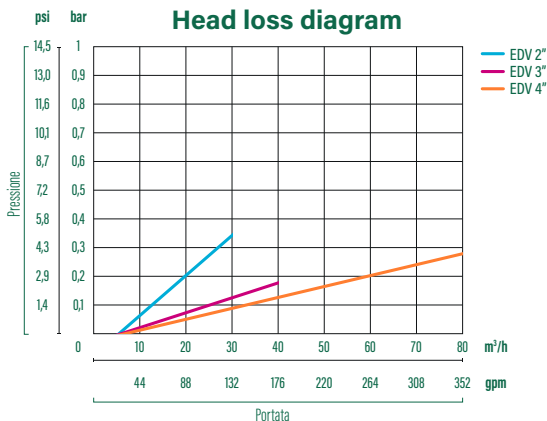
**Filtration degree (mesh)**

yy: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| 08   | 75   | 200    | Grey   |
| 12   | 120  | 130    | Red    |
| 15   | 155  | 100    | Yellow |

**Typical installation**

|    | X min (mm) |
|----|------------|
| 2" | 750        |
| 3" | 1000       |
| 4" | 1250       |



# METAL SCREEN

## SEMI AUTOMATIC FILTERS



**Flow rate**  
240 m<sup>3</sup>/h



**Filtering Surface**  
1055 - 6028 cm<sup>2</sup>



**Diameters**  
2" - 8"

**75**  
(200 micron)

**120**  
(130 micron)

**155**  
(100 micron)

### Advantages

- ✓ Semi-automatic cleaning system
- ✓ Reduces maintenance time
- ✓ Cyclonic and Brush models



#### Construction materials

|                          |   |
|--------------------------|---|
| <b>FILTER BODY</b>       | Structural steel  |
| <b>MANIFOLDS</b>         | Structural steel  |
| <b>COATING</b>           | Polyester powder coating<br>(min. thickness 160 micron) |
| <b>FILTERING ELEMENT</b> | Stainless steel screen - PVC support structure          |
| <b>GASKETS</b>           | EPDM  |





#### Conditions of use

|                        |                |
|------------------------|----------------|
| <b>PH RANGE</b>        | 4<pH<11        |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>    | 8 bar at 20°C  |
















# METAL SCREEN

## SEMI AUTOMATIC FILTERS

### Selecting the correct model

|                        |   |   |   |
|------------------------|---|---|---|
|                        | <b>MODEL</b>  |  |  |
|                        | <b>FILTERING ELEMENT</b>  | Stainless Steel Screen + PVC Structure  |   |
|                        | <b>CLEANING MECHANISM</b>   | cyclonic  | cyclonic with brush   |
| General Specifications | <b>DIAMETERS</b>  | 2" - 8"   | 2" - 6"   |
|                        | <b>CONNECTIONS</b>  | Threaded Female - Flanged   |   |
|                        | <b>FILTRATION DEGREES</b>   | 80 - 120 - 155 mesh   200 - 130 - 100 micron                                      |   |
|                        | <b>RANGE OF FLOW RATES</b>  | 11 - 240 m <sup>3</sup> /h  | 11 - 150 m <sup>3</sup> /h  |
|                        | <b>FILTERING SURFACE</b>  | 1055 - 6028 cm <sup>2</sup>   | 1055 - 4929 cm <sup>2</sup>   |
| Applications           | <br>AGRICULTURE | Secondary filtration (back-up filter)   |   |
|                        | <br>LANDSCAPE  | Primary filtration of medium-quality water  |   |
|                        |   | Main filtration of medium-quality water   |   |

### Recommended flow rate

| SIZE | 4 Plugs  | 3 Plugs  | 2 Plugs  | 1 Plug   | Free   |
|------|--|--|--|--|--|
| 2"   | 11÷14 m <sup>3</sup> /h<br> | 14÷18 m <sup>3</sup> /h<br> | 18÷22 m <sup>3</sup> /h<br> | 22÷27 m <sup>3</sup> /h<br> | 27÷31 m <sup>3</sup> /h<br> |
| 3"   | 12÷16 m <sup>3</sup> /h<br> | 16÷21 m <sup>3</sup> /h<br> | 21÷27 m <sup>3</sup> /h<br> | 27÷33 m <sup>3</sup> /h<br> | 33÷40 m <sup>3</sup> /h<br> |
| 4"   | 20÷28 m <sup>3</sup> /h<br> | 28÷38 m <sup>3</sup> /h<br> | 38÷44 m <sup>3</sup> /h<br> | 44÷53 m <sup>3</sup> /h<br> | 53÷70 m <sup>3</sup> /h<br> |

### Operational note

For maximum effectiveness of the turbulent flow cleaning mechanism, a DP Sensor of approximately 0.5 bar must be maintained between the inlet and outlet. Fit the number of plugs required (supplied) according to the water flow rate.



# EAV

## METAL SCREEN SEMI AUTOMATIC FILTERS

### Description

Semi-automatic screen filter for in-line installation with "turbulence" cleaning mechanism. Filtering element with stainless steel screen bonded to a perforated PVC cylinder. Available in a wide range of sizes (up to 8"). Sturdy metal construction.



| Internal | Connections     | Code       | PN      | Flow rate (m <sup>3</sup> /h) | Filtering Surface (cm <sup>2</sup> ) | Ø body (inch) | L (mm) | L1 (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|-----------------|------------|---------|-------------------------------|--------------------------------------|---------------|--------|---------|--------|--------|-------------|
| 2"       | threaded female | IFEAV20Hyy | 8       | 11÷31                         | 1055                                 | 6"            | 440    | 450     | 300    | 400    | 16          |
| 3"       | threaded female | IFEAV30Hyy |         | 12÷40                         | 1625                                 |               | 660    | 660     |        | 450    | 20          |
|          | flanged         | IFEAV30Fyy |         | 610                           | 610                                  |               | 500    | 27      |        |        |             |
| 4"       | threaded female | IFEAV40Hyy |         | 20÷70                         | 2318                                 | 8"            | 770    | 770     |        | 580    | 31          |
|          | flanged         | IFEAV40Fyy |         | 710                           | 710                                  |               | 600    | 40      |        |        |             |
| 5"       | flanged         | IFEAV50Fyy |         | 40÷110                        | 3014                                 |               | 720    | 840     |        | 680    | 45          |
| 6"       | flanged         | IFEAV60Fyy |         | 70÷150                        | 4929                                 | 10"           | 1000   | 1100    |        | 730    | 63          |
| 8"       | flanged         | IFEAV80Fyy | 100÷240 | 6028                          | 8"                                   | 800           | 800    | 350     | 1350   | 90     |             |

### Filtering cartridge



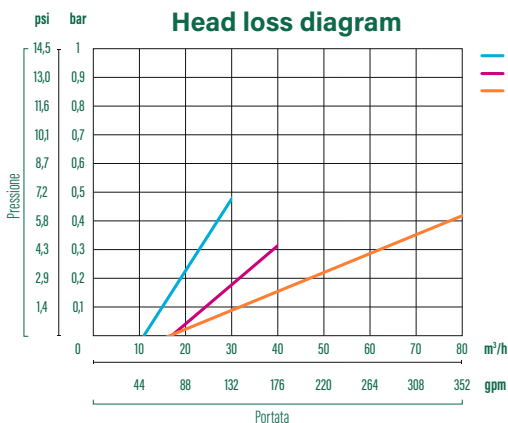
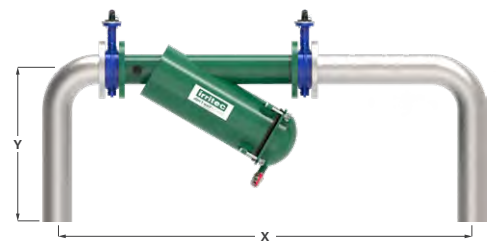
### Filtration degree (mesh)

yy: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| 08   | 75   | 200    |        |
| 12   | 120  | 130    |        |
| 15   | 155  | 100    |        |

### Typical installation

|        | X min (mm) | Y min (mm) |
|--------|------------|------------|
| 2"     | 900        | 400        |
| 3"     | 1000       | 450        |
| DN 80  | 1050       | 450        |
| 4"     | 1650       | 650        |
| DN 100 | 1650       | 650        |
| DN 125 | 2000       | 800        |
| DN 150 | 2200       | 1000       |

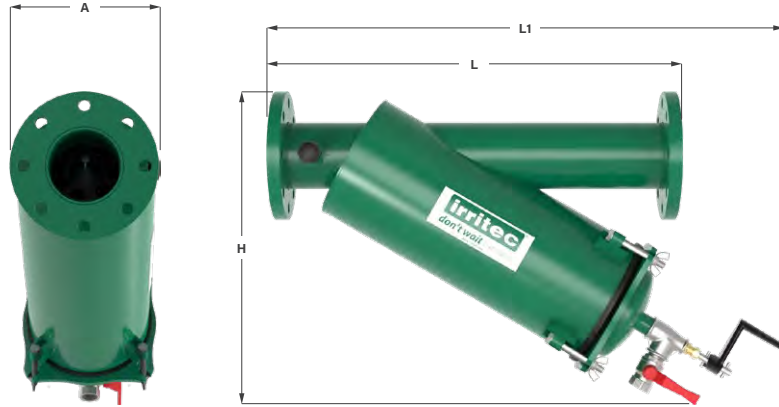


**EBV**

**METAL SCREEN**  
SEMI AUTOMATIC FILTERS

**Description**

Semi-automatic screen filter for in-line installation with "vortex" cleaning mechanism. The filter is also equipped with an internal brush that can be operated via the external handle. Filtering element with stainless steel screen bonded to a perforated PVC cylinder. Sturdy metal construction.



| Internal | Connections     | Code        | PN     | Flow rate (m³/h) | Filtering Surface (cm²) | Ø body (inch) | L (mm) | L1 (mm) | A (mm) | H (mm) | Weight (kg) |
|----------|-----------------|-------------|--------|------------------|-------------------------|---------------|--------|---------|--------|--------|-------------|
| 2"       | threaded female | IFEVBV20Hyy | 8      | 11÷31            | 1055                    | 6"            | 440    | 700     | 300    | 500    | 13          |
| 3"       | threaded female | IFEVBV30Hyy |        | 12÷40            | 1625                    |               | 660    | 900     |        | 550    | 16          |
|          | flanged         | IFEVBV30Fyy |        |                  |                         |               | 610    | 900     |        | 550    | 23          |
| 4"       | threaded female | IFEVBV40Hyy |        | 20÷70            | 2318                    | 8"            | 770    | 1000    |        | 650    | 24          |
|          | flanged         | IFEVBV40Fyy |        |                  |                         |               | 710    | 1000    |        | 650    | 34          |
| 5"       | flanged         | IFEVBV50Fyy |        | 40÷110           | 3014                    | 720           | 1100   | 750     |        | 43     |             |
| 6"       | flanged         | IFEVBV60Fyy | 70÷150 | 4929             | 1000                    | 1250          | 900    | 68      |        |        |             |

**Filtering cartridge**



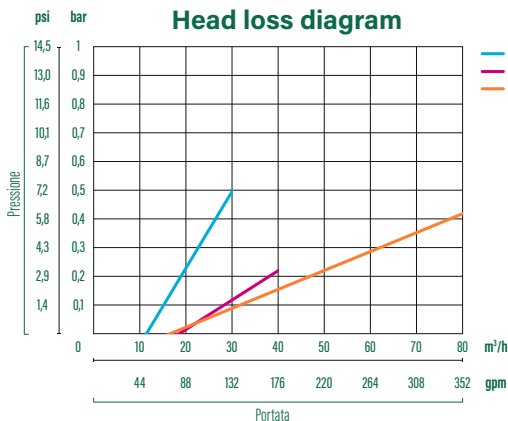
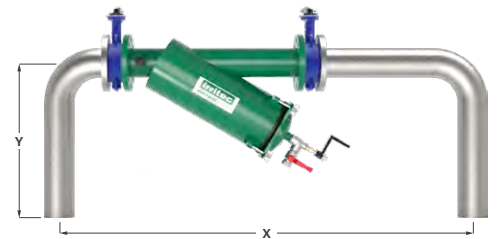
**Filtration degree (mesh)**

yy: mesh (replace with:)

| Ref. | Mesh | Micron | Colour |
|------|------|--------|--------|
| 08   | 75   | 200    |        |
| 12   | 120  | 130    | Red    |
| 15   | 155  | 100    | Yellow |

**Typical installation**

|        | X min (mm) | Y min (mm) |
|--------|------------|------------|
| 2"     | 900        | 450        |
| 3"     | 1000       | 500        |
| DN 80  | 1050       | 500        |
| 4"     | 1650       | 700        |
| DN 100 | 1650       | 700        |
| DN 125 | 2000       | 850        |
| DN 150 | 2200       | 1050       |



# HYDROCICLONE



**Flow rate**  
3 - 120 m<sup>3</sup>/h



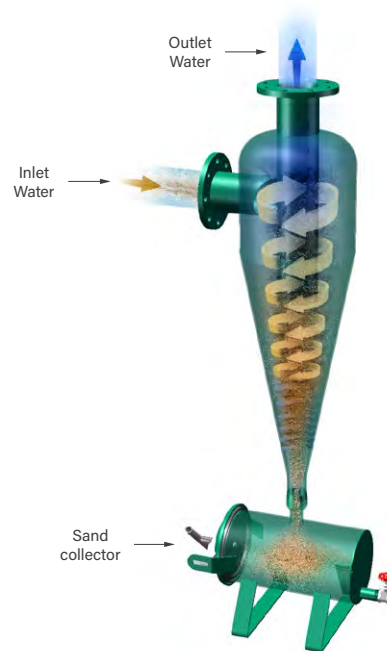
**Diameters**  
3/4" - 5"

## Advantages

- ✓ **Efficient pre-filtration system** to remove sand
- ✓ **Collection tank** included (on 2" to 5" models).
- ✓ **Wide range of models** for every application
- ✓ **Also available as a complete battery** (Model ETS)

## Principle of operation

The particular conical shape, together with the tangential water inlet, give the flow a "vortex" motion. The centrifugal force generated separates the suspended sand. The sand then accumulates in the lower collection tank.



## Construction materials

|                    |   |
|--------------------|---|
| <b>FILTER BODY</b> | Structural steel  |
| <b>MANIFOLDS</b>   | Structural steel  |
| <b>COATING</b>     | Polyester powder coating<br>(min. thickness 160 micron) |
| <b>GASKETS</b>     | EPDM  |

## Conditions of use

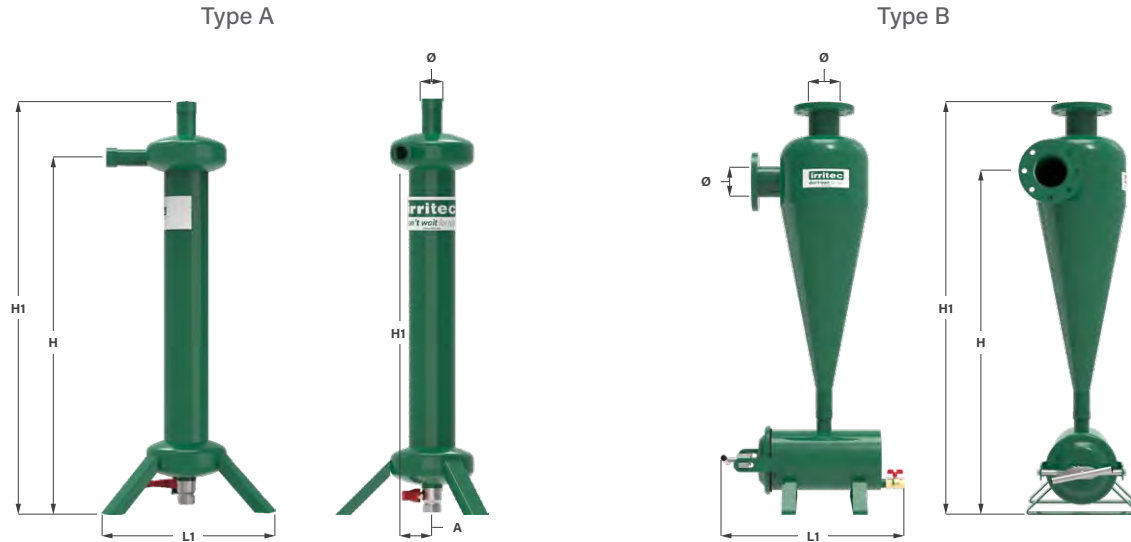
|                        |                |
|------------------------|----------------|
| <b>PH RANGE</b>        | 4 < pH < 11    |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>    | 8 bar at 20°C  |



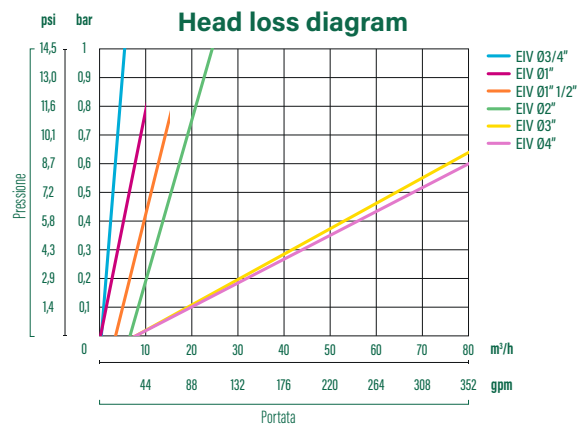
# EIV HYDROCYCLONE

## Description

Hydrocyclone sand separator. Ideal for the PRE-Treatment of well water with high levels of suspended sand. Wide range of sizes available (3/4" to 5") for all agricultural and residential applications. Sturdy construction with high gauge metal.



| Internal | Connections     | Code        | Type   | Ø body (mm) | PN   | Flow rate (m³/h) | L (mm) | H (mm) | H1 (mm) | A (mm) | Weight (kg) |
|----------|-----------------|-------------|--------|-------------|------|------------------|--------|--------|---------|--------|-------------|
| 3/4"     | threaded female | IFEIV03H    | Type A | 89          | 8    | 3÷5              | 285    | 580    | 660     | 55     | 7           |
| 1"       | threaded female | IFEIV10H    |        |             |      | 5÷12             |        | 780    |         |        | 10          |
| 1 1/2"   | threaded female | IFEIV15H    |        |             |      | 10÷16            |        | 860    |         |        | 10          |
| 2"       | threaded female | IFEIV20H219 | Type B | 219         |      | 15÷25            | 520    | 1125   | 960     | 70     | 25          |
|          | grooved         | IFEIV20W219 |        |             |      | 1100             |        | 24     |         |        |             |
| 3"       | threaded female | IFEIV30H219 |        |             |      | 30÷50            |        | 1130   |         | 29     |             |
|          | grooved         | IFEIV30W219 |        |             |      | 1100             |        | 28     |         |        |             |
| 3" L     | threaded female | IFEIV30H320 | 40÷60  | 320         |      | 660              | 1485   | 1230   | 115     | 38     |             |
|          | flanged         | IFEIV30F320 |        |             | 1460 |                  | 45     |        |         |        |             |
| 4"       | threaded female | IFEIV40H320 | 50÷80  | 400         | 1490 |                  | 100    |        | 45      |        |             |
|          | grooved         | IFEIV40W320 |        |             | 1450 |                  |        |        | 44      |        |             |
|          | flanged         | IFEIV40F320 |        |             | 1460 |                  |        | 54     |         |        |             |
| 5"       | flanged         | IFEIV50F400 | 80÷120 | 1780        | 1475 |                  | 130    | 83     |         |        |             |



# ETS BATTERIES HYDROCICLONE

## Description

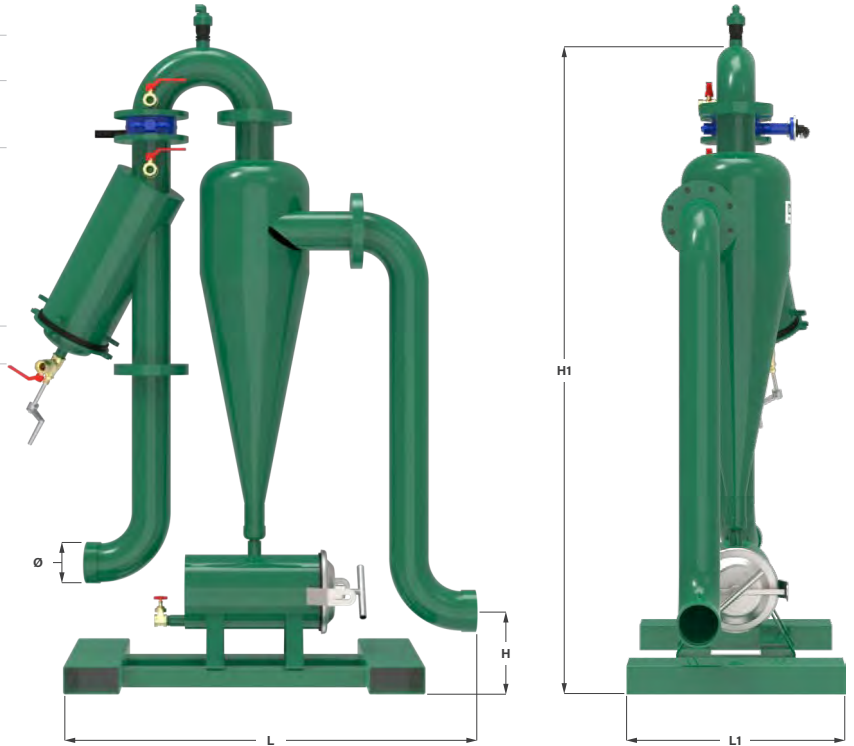
Complete battery for filtering well water. Consisting of hydrocyclone sand separator + screen filter + fertigation bypass kit. Ideal for filtering well water with high levels of suspended sand. Sturdy high gauge metal construction, compact and easily transportable assembly.

## Construction materials

|                    |   |
|--------------------|---|
| <b>FILTER BODY</b> | Structural steel  |
| <b>MANIFOLDS</b>   | Structural steel  |
| <b>COATING</b>     | Polyester powder coating<br>(min. thickness 160 micron) |
| <b>GASKETS</b>     | EPDM  |

## Conditions of use

|                        |                |
|------------------------|----------------|
| <b>PH RANGE</b>        | 4<pH<11        |
| <b>MAX TEMPERATURE</b> | 60 °C / 140 °F |
| <b>MAX PRESSURE</b>    | 8 bar at 20°C  |



| Connections |                 | Code        | Screen filter | PN | Flow rate (cm <sup>2</sup> ) | L (mm) | L1 (mm) | H (mm) | H1 (mm) | Min flow rate (m <sup>2</sup> /h) | Max flow rate (m <sup>2</sup> /h) |
|-------------|-----------------|-------------|---------------|----|------------------------------|--------|---------|--------|---------|-----------------------------------|-----------------------------------|
| 2"          | threaded female | IFETS120H12 | ESV           | 8  | 15÷30                        | 1100   | 500     | 180    | 1400    | 15                                | 30                                |
| 3"          | threaded female | IFETS130H12 | ESV           |    | 25÷40                        | 1300   | 550     | 190    | 1450    | 25                                | 40                                |
| 4"          | threaded female | IFETS140H12 | ESV           |    | 40÷80                        | 1400   | 600     | 180    | 1770    | 40                                | 80                                |
| DN 125      | flanged         | IFETS150F12 | ESV           |    | 80÷110                       | 1350   | 730     | 230    | 2070    | 80                                | 110                               |
| 2"          | threaded female | IFETS220H12 | EDV           |    | 15÷30                        | 1100   | 500     | 180    | 1400    | 15                                | 30                                |
| 3"          | threaded female | IFETS230H12 | EDV           |    | 25÷40                        | 1300   | 550     | 190    | 1450    | 25                                | 40                                |
| 4"          | threaded female | IFETS240H12 | EDV           |    | 40÷80                        | 1400   | 600     | 180    | 1770    | 40                                | 80                                |
| 2"          | threaded female | IFETS420H12 | EBV           |    | 11÷31                        | 1100   | 500     | 180    | 1400    | 11                                | 31                                |
| 3"          | threaded female | IFETS430H12 | EBV           |    | 12÷40                        | 1300   | 550     | 190    | 1450    | 12                                | 40                                |
| 4"          | threaded female | IFETS440H12 | EBV           |    | 20÷70                        | 1400   | 600     | 180    | 1770    | 20                                | 70                                |
| DN 125      | flanged         | IFETS450F12 | EBV           |    | 40÷110                       | 1350   | 730     | 230    | 2070    | 40                                | 110                               |
| 2"          | threaded female | IFETS520H12 | EAV           |    | 11÷31                        | 1100   | 500     | 180    | 1400    | 11                                | 31                                |
| 3"          | threaded female | IFETS530H12 | EAV           |    | 12÷40                        | 1300   | 550     | 190    | 1450    | 12                                | 40                                |
| 4"          | threaded female | IFETS540H12 | EAV           |    | 20÷70                        | 1400   | 600     | 180    | 1770    | 20                                | 70                                |
| DN 125      | flanged         | IFETS550F12 | EAV           |    | 40÷110                       | 1350   | 730     | 230    | 2070    | 40                                | 110                               |

**Filtration** | Automatic screen filters

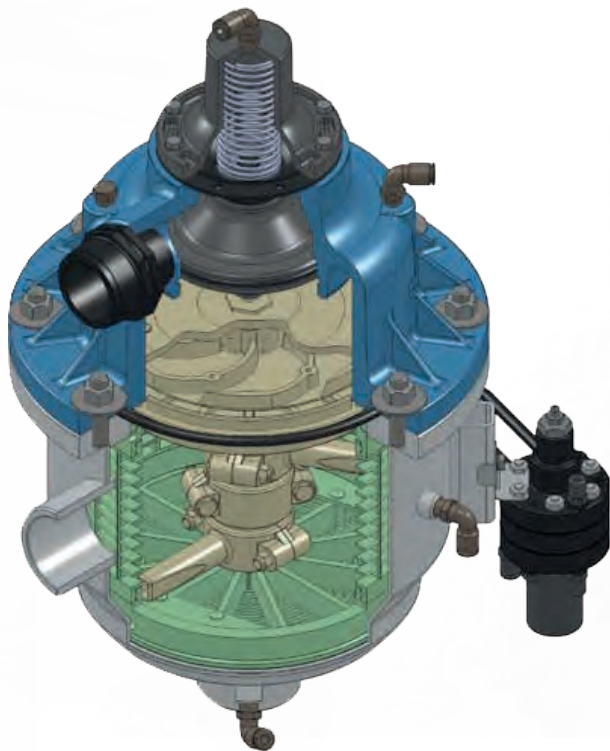
*The result of the collaboration between Irritec and Triangle water-equip, this range of self-cleaning screen filters represents an uncompromising choice in the world of screen filtration. Characterised by the AISI 304 stainless steel construction and use of high quality components, they are guaranteed to be long-lasting and effective in filtering all types*

*of water used in agriculture, public parks, golf courses and industry.*



## Advantages

- ✓ **Complete range** automatic screen filters.
- ✓ **Hydraulically operated** cleaning unit (no electric power supply required)
- ✓ **Extremely robust** stainless steel construction
- ✓ **Very quick cleaning cycles** to optimise the use of water.
- ✓ **Small footprint** and easy to transport



### Filtration

1. Water enters the filter through a pre-filter that prevents stones and coarse particles from entering.
2. Water flows from the inside to the outside through the screen filter and the dirt is trapped inside.
3. The hydraulic mechanism is in standby mode (stopped)

### Backwash

When the hydraulic control unit detects a pressure difference of more than 0.5 bar, a backwash cycle is activated.

1. The cleaning manifold and the nozzles begin to rotate and traverse longitudinally.
2. The filter begins to discharge the wash water, creating a vacuum in the cleaning manifold.
3. The suction created at the nozzles effectively removes dirt and regenerates the initial state of the filter.

# FILTAWORX



## "Vertical" models

- Compact and small footprint models
- Available in sizes from 2" to 4" (DN100)
- Standard filtration: 120 mesh (130 micron), available with 155 mesh (100 micron) filtration and other filtration degrees on request
- Hydraulic backwash unit - No electric power supply required.





## "Horizontal" models

- High filtering surface area
- Available in sizes from 4" to 14" (DN350)
- Standard filtration: 120 mesh (130 micron), available with 155 mesh (100 micron) filtration and other filtration degrees on request
- Hydraulic backwash unit - No electric power supply required.





## Selecting the correct model

| D. IN/OUT | 2"  | 3"    |         | 4" (DN100) |         |          | 6" (DN150)   |         | DN200 | DN250 |         | DN300 | DN350 |
|-----------|---|-------|---------|------------|---------|----------|--|---------|-------|-------|---------|-------|-------|
|           | FW050   | FW080 | FW080EX | FW100      | FW100EX | FW100EXL | FW150  | FW150EX | FW200 | FW250 | FW250EX | FW300 | FW350 |
| MODEL     |  |       |         |            |         |          |  |         |       |       |         |       |       |

|                        |                         |                                   |      |      |      |      |      |         |       |     |  |  |  |
|------------------------|-------------------------|-----------------------------------|------|------|------|------|------|---------|-------|-----|--|--|--|
| General Specifications | CONNECTIONS             | Threaded F                        |      |      |      |      |      | Flanged |       |     |  |  |  |
|                        | FILTRATION DEGREE       | 120 - 155 mesh   130 - 100 micron |      |      |      |      |      |         |       |     |  |  |  |
|                        | Q.MAX (m³/h)            | 25                                | 50   | 80   | 100  | 180  | 320  | 400     | 600   | 900 |  |  |  |
|                        | FILTERING SURFACE (cm²) | 1220                              | 1980 | 5600 | 8115 | 5600 | 8115 | 10145   | 12170 |     |  |  |  |

|               |                     |            |  |  |  |  |  |             |  |  |  |  |  |
|---------------|---------------------|------------|--|--|--|--|--|-------------|--|--|--|--|--|
| Backwash Data | Q. MIN WASH         | 15 m³/h    |  |  |  |  |  | 35 m³/h     |  |  |  |  |  |
|               | P. MIN WASH         | 2.5 bar    |  |  |  |  |  |             |  |  |  |  |  |
|               | WASH CYCLE DURATION | 7 - 10 sec |  |  |  |  |  | 15 - 20 sec |  |  |  |  |  |

|              |   |  |
|--------------|---|--|
| Applications |  | Primary filtration on medium to large sized systems (water quality from P00R to G00D)  |
|              |   | Secondary filtration on "problematic" water (water with high lime and clay content)    |
|              |  | Main filtration on large sized systems (parks, public green spaces, golf courses etc.) |



**FW050 - 100**

**FILTAWORX**  
Self-Cleaning Filters



**FW050 – FW100**

50 - 100mm (2"-4")



**Flow rate**  
25 - 80 m<sup>3</sup>/h



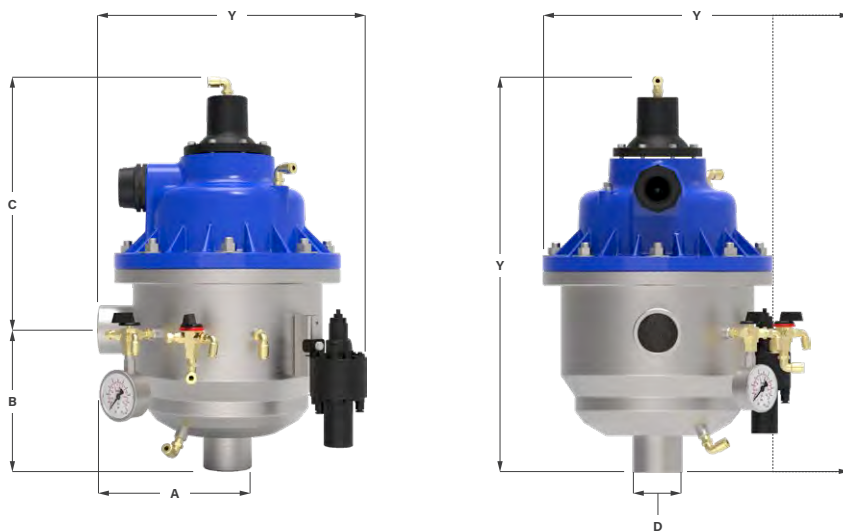
**Filtering Surface**  
1220 - 1980 cm<sup>2</sup>



**Diameters**  
2" - 4" (DN125)

**Advantages**

- ✓ Simple and compact installation.
- ✓ Highly reliable and robust.
- ✓ Rapid and efficient wash cycles.



| Model       | Nominal Size D |     | IN/OUT connections | Nominal flow rate<br>2 m of pressure loss |                   | Filtering surface<br>cm <sup>2</sup> | Size (mm) |     |     |     |     | Weight (kg) |      |
|-------------|----------------|-----|--------------------|---|-------------------|--------------------------------------|-----------|-----|-----|-----|-----|-------------|------|
|             | inches         | mm  |                    | litres/sec                                | m <sup>3</sup> /h |                                      | A         | B   | C   | X   | Y   | Empty       | Full |
| FW 050      | 2              | 50  | 2" BSP             | 7   | 25                | 1220                                 | 184       | 198 | 204 | 720 | 560 | 22          | 42   |
| FW 050 - F  | 2              | 50  | DN 50              | 7   | 25                | 1220                                 | 210       | 210 | 204 | 720 | 575 | 23          | 43   |
| FW 080      | 3              | 80  | 3" BSP             | 14  | 50                | 1220                                 | 194       | 213 | 204 | 720 | 575 | 22          | 42   |
| FW 080 - F  | 3              | 80  | DN 80              | 14  | 50                | 1220                                 | 210       | 210 | 204 | 720 | 575 | 25          | 45   |
| FW 080 - EX | 3              | 80  | DN 80              | 14  | 50                | 1980                                 | 210       | 315 | 215 | 900 | 680 | 29          | 55   |
| FW 100      | 4              | 100 | DN 100             | 22  | 80                | 1980                                 | 235       | 315 | 215 | 900 | 680 | 30          | 57   |

# FW050 - 100



## Conditions of use

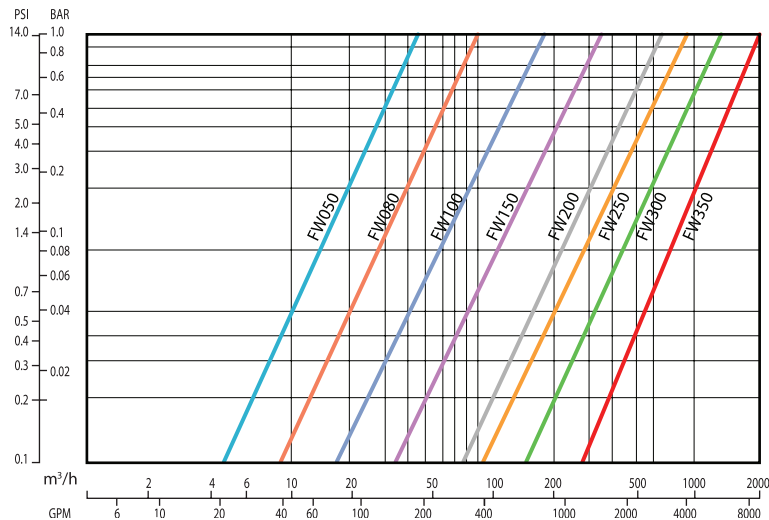
|                               |   |
|-------------------------------|---|
| MINIMUM OPERATING PRESSURE    | 200 kPa (2bar) always   |
| MAXIMUM OPERATING PRESSURE    | Standard 1000 kPa (10bar), higher pressure available on request |
| MAXIMUM OPERATING TEMPERATURE | 65°C  |

## Construction materials

|                    |  |
|--------------------|--|
| FILTER BODY        | AISI 304 stainless steel (316 and other grades available on request)   |
| COVER              | GRN (glass-reinforced nylon), stainless steel, EPDM and natural rubber |
| CLEANING MECHANISM | Stainless steel, brass, GRN  |
| MAIN FILTER        | 316 stainless steel screen, GRN  |
| PRE-FILTER         | GRN  |
| GASKETS            | NBR  |
| CONTROL UNIT       | Acetal, stainless steel, brass, PVC                                    |
| CONTROL UNIT PIPES | Polyethylene   |

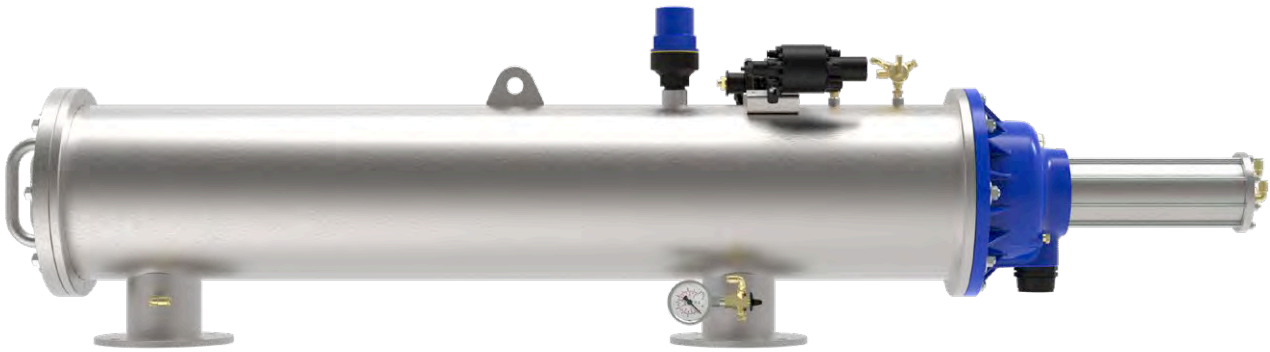


**Head loss diagram**



# FW100EX - 350

**FILTAWORX**  
Self Cleaning Filters



## FW100EX – FW350

100 - 350mm (4"-14")



**Flow rate**  
100 - 900 m<sup>3</sup>/h



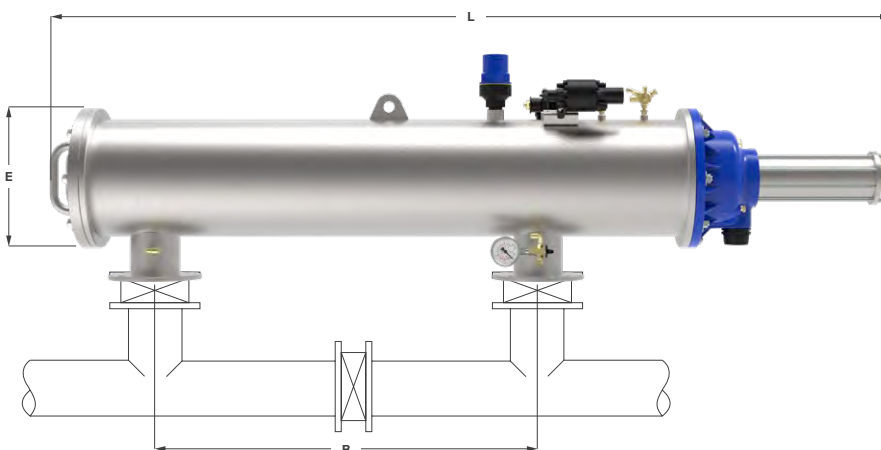
**Filtering Surface**  
5600 - 12170 cm<sup>2</sup>



**Diameters**  
4" (DN100) - 14" (DN359)

### Advantages

- ✓ High filtering surface area
- ✓ Reduced number of moving parts and **low maintenance**
- ✓ **Highly reliable** and robust
- ✓ **Rapid and efficient** wash cycles



| Model    | Nominal Size D |     | IN/OUT connections | Nominal flow rate<br>2 m of pressure loss |                   | Filtering surface<br>cm <sup>2</sup> | Size (mm) |      |     |     |      | Weight (kg) |      |
|----------|----------------|-----|--------------------|---|-------------------|--------------------------------------|-----------|------|-----|-----|------|-------------|------|
|          | inches         | mm  |                    | litres/sec                                | m <sup>3</sup> /h |                                      | A         | B    | E   | H   | L    | Empty       | Full |
| FW100EX  | 4              | 100 | DN100              | 28  | 100               | 5600                                 | 235       | 900  | 273 | 525 | 1952 | 85          | 165  |
| FW100EXL | 4              | 100 | DN100              | 28  | 100               | 8115                                 | 235       | 900  | 325 | 525 | 2315 | 104         | 200  |
| FW 150   | 6              | 150 | DN150              | 50  | 180               | 5600                                 | 270       | 900  | 325 | 583 | 2017 | 105         | 215  |
| FW150EX  | 6              | 150 | DN150              | 50  | 180               | 8115                                 | 270       | 900  | 325 | 583 | 2380 | 115         | 265  |
| FW 200   | 8              | 200 | DN200              | 89  | 320               | 8115                                 | 270       | 900  | 325 | 583 | 2612 | 130         | 320  |
| FW 250   | 10             | 250 | DN250              | 111                                       | 400               | 8115                                 | 270       | 900  | 325 | 583 | 2615 | 155         | 345  |
| FW 250EX | 10             | 250 | DN250              | 111                                       | 400               | 10415                                | 310       | 1100 | 406 | 665 | 3105 | 235         | 540  |
| FW 300   | 12             | 300 | DN300              | 167                                       | 600               | 10415                                | 310       | 1100 | 406 | 665 | 3105 | 240         | 550  |
| FW 350   | 14             | 350 | DN350              | 250                                       | 900               | 12170                                | 310       | 1270 | 406 | 665 | 3105 | 285         | 595  |

# FW100EX - 350



## Conditions of use

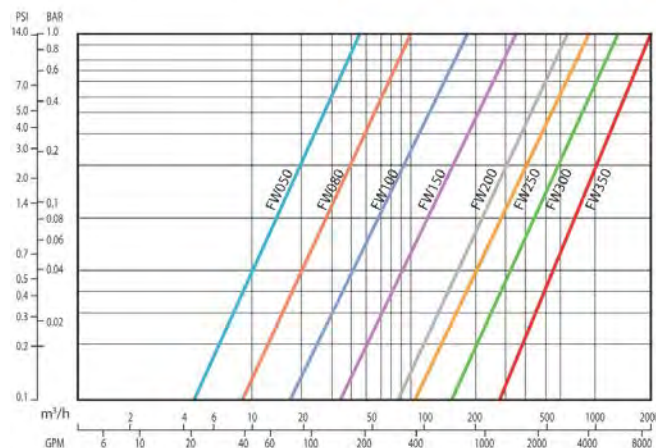
|                               |   |
|-------------------------------|---|
| MINIMUM OPERATING PRESSURE    | 200 kPa (2bar) always   |
| MAXIMUM OPERATING PRESSURE    | Standard 1000 kPa (10bar), higher pressure available on request |
| FILTERING SURFACE             | 1220 cm <sup>2</sup>  |
| MAXIMUM OPERATING TEMPERATURE | 65°C  |

## Construction materials

|                    |  |
|--------------------|--|
| FILTER BODY        | AISI 304 stainless steel (316 and other grades available on request)   |
| COVER              | GRN (glass-reinforced nylon), stainless steel, EPDM and natural rubber |
| CLEANING MECHANISM | Stainless steel, brass, GRN  |
| MAIN FILTER        | 316 stainless steel screen, GRN  |
| PRE-FILTER         | GRN  |
| GASKETS            | NBR  |
| CONTROL UNIT       | Acetal, stainless steel, brass, PVC                                    |
| CONTROL UNIT PIPES | Polyethylene   |



Head loss diagram





## Filtration | Filter automation kit

The result of Irritec's long experience in automatic filtration, these automation kits make it possible to fully automate Rotodisk Automatic filters and sand media filters in a practical and fast manner.

Available in different types to better suit the specific needs of each system.



# FILTER AUTOMATION KIT

The result of Irritec's long experience in automatic filtration, these automation kits make it possible to fully automate Rotodisk Automatic filters and sand media filters in a practical and fast manner. Available in different types to better suit the specific needs of each system.



### Advantages

- ✓ **Complete kits** for automated filter cleaning.
- ✓ Models with **Battery and / or 220 VAC power supply**
- ✓ **Differential DP Sensor**
- ✓ **Highly reliable solenoids**
- ✓ **Metal bracket** for quick mounting on all Irritec Automatic filters
- ✓ **Compatible with Rotodisk Automatic and quartzite filters** (models with 3-way valves only)

### Principle of operation

1. As a result of the differential DP Sensor, the control unit continuously detects the state of cleanliness of the filter.
2. The backwash control unit manages the wash times of each filter and is set according to water quality.
3. The washing cycles are carried out in 2 modes:
  - Timed: with defined time intervals
  - DP: based on the required DP Sensor values

## Selecting the correct model

|                               | KTB                             | KPB | KFB   | KCB          | KFA          | KCA    |
|-------------------------------|---------------------------------|-----|-------|--------------|--------------|--------|
| <b>MODELS</b>                 |                                 |     |       |              |              |        |
| <b>General Specifications</b> | <b>POWER SUPPLY</b>             |     |       |              | Battery      |        |
|                               | <b>SOLENOID TYPE</b>            |     |       |              | 9 - 12 latch |        |
|                               | <b>No. of OUTLETS (FILTERS)</b> |     | 1 - 4 | 2 - 8        | 2 - 10       | 2 - 15 |
| <b>Functions</b>              | <b>DP SENSOR</b>                |     |       |              |              |        |
|                               | <b>WASHING CYCLES HISTORY</b>   |     |       | Differential |              |        |
|                               | No                              |     |       | Yes          |              |        |
| <b>ENABLING</b>               |                                 | Yes | No    | Yes          | No           | Yes    |

**KTB**

**Functions**

- ✓ D.P. is integrated and easy to replace
- ✓ D.P. values displayed in real time

**Operating characteristics**

- Time between washes (hh : mm)
- Wash time for each single element (mm: ss)
- Pause Time
- Delay time between filters
- Read current DP value
- DP setpoint for automatic wash operation
- Manual operation



**Control unit specifications**

|                                     |                           |
|-------------------------------------|---------------------------|
| <b>DIMENSIONS</b>                   | 230x140x80 mm             |
| <b>WEIGHT</b>                       | 0.7 kg                    |
| <b>BOX</b>                          | ABS                       |
| <b>IP RATING</b>                    | IP-54                     |
| <b>ELECTRICAL POWER SUPPLY</b>      | 2.7 - 5 VDC               |
| <b>ABSORPTION CURRENT</b>           | 20uA                      |
| <b>WORKING TEMPERATURE</b>          | 0°C to 60°C               |
| <b>WORK HUMIDITY</b>                | 0 to 95% non-condensing   |
| <b>FUSES/ELECTRICAL PROTECTIONS</b> | Resettable PolySwitch PTC |
| <b>OUTPUTS</b>                      | Transistor                |
| <b>OUTPUT VOLTAGE</b>               | 18VDC Latch type          |

**Solenoid specifications**

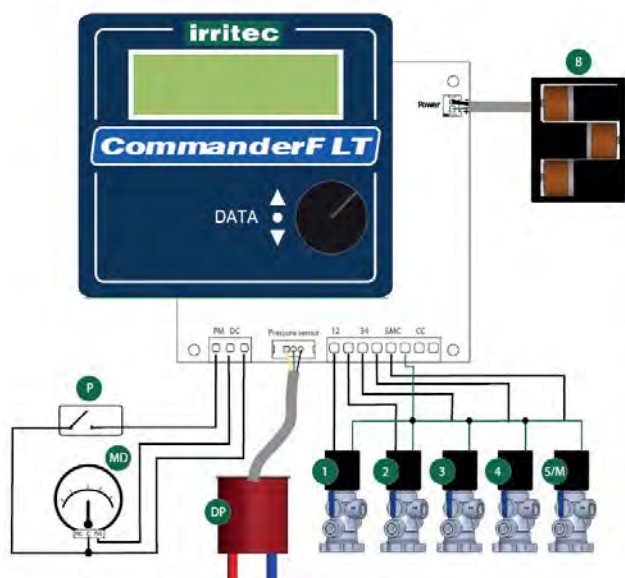
|                           |                                      |
|---------------------------|--------------------------------------|
| <b>OPERATING PRESSURE</b> | 0-10 bar                             |
| <b>ORIFICE DIAMETER</b>   | 1.5 mm                               |
| <b>FLOW COEFFICIENT</b>   | Kv=0.08 m <sup>3</sup> /h a 1 bar DP |

**Materials**

|                    |                               |
|--------------------|-------------------------------|
| <b>BODY</b>        | Nylon                         |
| <b>GASKETS</b>     | NBR                           |
| <b>"WET" PARTS</b> | Stainless Steel and Polyamide |

**Electrical Specifications**

|                   |          |
|-------------------|----------|
| <b>VOLTAGE</b>    | 9-40 VDC |
| <b>RESISTANCE</b> | 6 ohm    |
| <b>INDUCTANCE</b> | 90 mH    |





**KPB**



**Functions**

- ✓ Analogue settings (no. x 3 knobs)
- ✓ Duration (Filter wash time)
- ✓ Cycle (max. pause time between washing cycles)
- ✓ D.P. values for cycle activation
- ✓ Pause between filters (Internal setting)

**Control unit specifications**

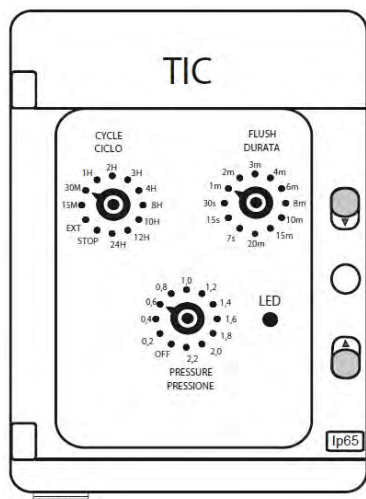
|                                 |   |
|---------------------------------|---|
| <b>CONTAINER</b>                | IP 65 water resistant   |
| <b>POWER SUPPLY</b>             | 2 x 1.5 VDC torch batteries (bridge not present)<br>External power supply (with bridge) |
| <b>OUTPUTS</b>                  | No. x 4 stations (filter+master)  |
| <b>WASH TIMES (DURATION)</b>    | 7-15-30 sec - 1-2-3-4-6-8-10-15-20 min.   |
| <b>WAIT TIMES (CYCLE)</b>       | 15-30 min. - 1-2-3-4-8-10-12-24h.   |
| <b>INTERNAL PRESSURE SWITCH</b> | Delta P 0.2-0.4-0.8-1.0-1.2-1.4-1.8-2.0-2.2 bar   |
| <b>OUTPUTS</b>                  | Solenoids VDC Latch   |
| <b>DP SENSOR</b>                | Integrated analogue DP sensor; also compatible with external dry contact DP sensor      |

**Solenoid specifications**

|                           |                         |
|---------------------------|-------------------------|
| <b>OPERATING PRESSURE</b> | 0-10 bar                |
| <b>ORIFICE DIAMETER</b>   | 1.5 mm                  |
| <b>FLOW COEFFICIENT</b>   | Kv=0.08 m³/h a 1 bar DP |

**Materials**

|                    |                               |
|--------------------|-------------------------------|
| <b>BODY</b>        | Nylon                         |
| <b>GASKETS</b>     | NBR                           |
| <b>"WET" PARTS</b> | Stainless Steel and Polyamide |



**Electrical Specifications**

|                   |          |
|-------------------|----------|
| <b>VOLTAGE</b>    | 9-40 VDC |
| <b>RESISTANCE</b> | 6 ohm    |
| <b>INDUCTANCE</b> | 90 mH    |

**KFB**



**Functions**

- ✓ BATTERY power supply / DC
- ✓ Duration (Filter wash time)
- ✓ Cycle (max. pause time between washing cycles)
- ✓ D.P. values for cycle activation
- ✓ Pause between filters
- ✓ Master Valve Delay
- ✓ Washing cycles history
- ✓ D.P. delay time
- ✓ D.P. values displayed in real time

**Control unit specifications**

|                        |  |
|------------------------|--|
| <b>POWER SUPPLY</b>    | 4 x type D alkaline - 12 VDC   |
| <b>OUTPUTS</b>         | Solenoids 12 VDC latch   |
| <b>PRESSURE DIFF.:</b> | Integrated analogue DP sensor;<br>also compatible with external<br>dry contact DP sensor |
| <b>TEMPERATURE</b>     | 0-60 °C  |

**Solenoid specifications**

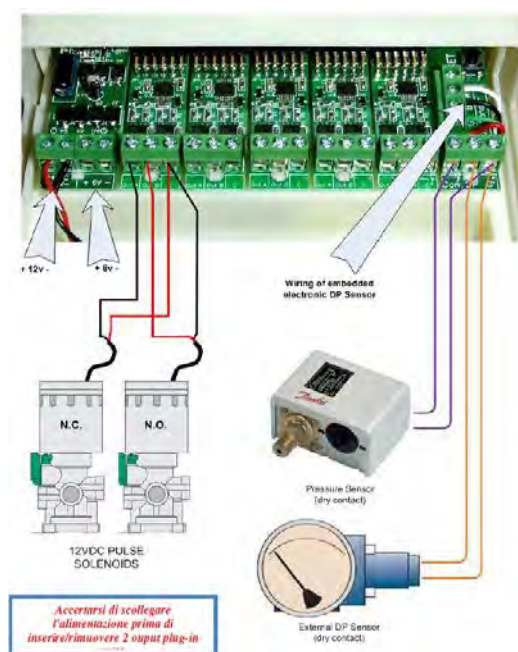
|                           |                                      |
|---------------------------|--------------------------------------|
| <b>OPERATING PRESSURE</b> | 0-10 bar                             |
| <b>ORIFICE DIAMETER</b>   | 1.5 mm                               |
| <b>FLOW COEFFICIENT</b>   | Kv=0.08 m <sup>3</sup> /h a 1 bar DP |

**Materials**

|                    |                               |
|--------------------|-------------------------------|
| <b>BODY</b>        | Nylon                         |
| <b>GASKETS</b>     | NBR                           |
| <b>"WET" PARTS</b> | Stainless Steel and Polyamide |

**Electrical Specifications**

|                   |          |
|-------------------|----------|
| <b>VOLTAGE</b>    | 9-40 VDC |
| <b>RESISTANCE</b> | 6 ohm    |
| <b>INDUCTANCE</b> | 90 mH    |



**KFA**



**Functions**

- ✓ BATTERY power supply / DC
- ✓ Duration (Filter wash time)
- ✓ Cycle (max. pause time between washing cycles)
- ✓ D.P. values for cycle activation
- ✓ Pause between filters
- ✓ Master Valve Delay
- ✓ Washing cycles history
- ✓ D.P. delay time
- ✓ D.P. values displayed in real time

**Control unit specifications**

|                        |  |
|------------------------|--|
| <b>POWER SUPPLY</b>    | 220 VAC 60 Hz with integrated 24 VAC transformer                                   |
| <b>OUTPUTS</b>         | 24 VAC   |
| <b>PRESSURE DIFF.:</b> | Integrated analogue DP sensor; also compatible with external dry contact DP sensor |
| <b>TEMPERATURE</b>     | 0-60 °C  |

**Solenoid specifications**

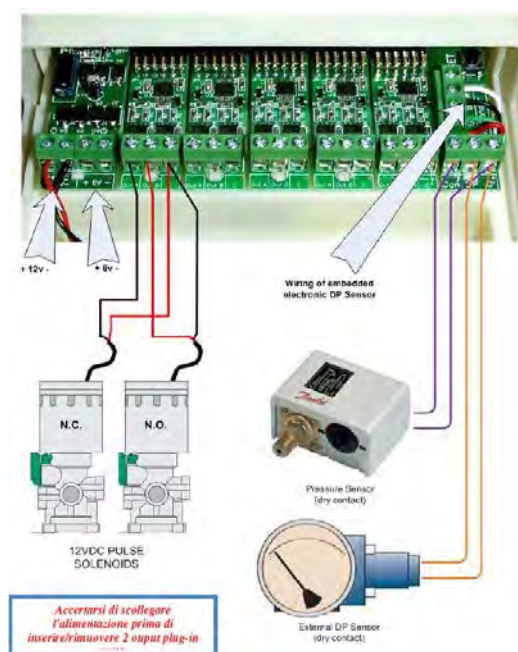
|                           |                         |
|---------------------------|-------------------------|
| <b>OPERATING PRESSURE</b> | 0-10 bar                |
| <b>ORIFICE DIAMETER</b>   | 1.5 mm                  |
| <b>FLOW COEFFICIENT</b>   | Kv=0.08 m³/h a 1 bar DP |

**Materials**

|                    |                               |
|--------------------|-------------------------------|
| <b>BODY</b>        | Nylon                         |
| <b>GASKETS</b>     | NBR                           |
| <b>"WET" PARTS</b> | Stainless Steel and Polyamide |

**Electrical Specifications**

|                   |          |
|-------------------|----------|
| <b>VOLTAGE</b>    | 9-40 VDC |
| <b>RESISTANCE</b> | 6 ohm    |
| <b>INDUCTANCE</b> | 90 mH    |



**KCB**



**Functions**

- ✓ Power supply 12 VDC
- ✓ Duration (Filter wash time)
- ✓ Cycle (max. pause time between washing cycles)
- ✓ D.P. values for cycle activation
- ✓ Settable D.P. delay
- ✓ Pause between filters
- ✓ Washing cycles history
- ✓ External enabling and operating windows
- ✓ Time-, D.P. or Volume-based washing cycles

**Control unit specifications**

|  |                              |
|--|------------------------------|
| <b>DIMENSIONS</b>                        | 324 x 100 x 130 mm           |
| <b>WEIGHT</b>                            | 3 kg                         |
| <b>CONTAINER MATERIAL</b>                | ABS                          |
| <b>IP RATING</b>                         | IP 54                        |
| <b>ELECTRICAL POWER SUPPLY (+/- 10%)</b> | 12 VDC                       |
| <b>CONSUMPTION</b>                       | 15 mA                        |
| <b>OUTPUT ABSORPTION</b>                 | 20 mA                        |
| <b>INPUT ABSORPTION</b>                  | 8 mA                         |
| <b>BACKUP BATTERY</b>                    | NI-CAD 3.6V - 110 mAH        |
| <b>BACKUP BATTERY LIFE (in OFF mode)</b> | 1 year                       |
| <b>WORKING TEMPERATURE</b>               | 0 - 60 °C                    |
| <b>WORK HUMIDITY</b>                     | 0 - 95% (without condensing) |
| <b>FUSE</b>                              | 0.5 Amp                      |
| <b>OUTPUT TYPE</b>                       | Via Relay                    |
| <b>COMPATIBLE SOLENOIDS</b>              | 12 VDC LATCH                 |

**Solenoid specifications**

|                           |                         |
|---------------------------|-------------------------|
| <b>OPERATING PRESSURE</b> | 0-10 bar                |
| <b>ORIFICE DIAMETER</b>   | 1.5 mm                  |
| <b>FLOW COEFFICIENT</b>   | Kv=0.08 m³/h a 1 bar DP |

**Materials**

|                    |                               |
|--------------------|-------------------------------|
| <b>BODY</b>        | Nylon                         |
| <b>GASKETS</b>     | NBR                           |
| <b>"WET" PARTS</b> | Stainless Steel and Polyamide |

**Electrical Specifications**

|                   |          |
|-------------------|----------|
| <b>VOLTAGE</b>    | 9-40 VDC |
| <b>RESISTANCE</b> | 6 ohm    |
| <b>INDUCTANCE</b> | 90 mH    |



**KCA**



**Functions**

- ✓ Power supply 220 VAC
- ✓ Duration (Filter wash time)
- ✓ Cycle (max. pause time between washing cycles)
- ✓ D.P. values for cycle activation
- ✓ Settable D.P. delay
- ✓ Pause between filters
- ✓ Washing cycles history
- ✓ External enabling and operating windows
- ✓ Time-, D.P. or Volume-based washing cycles
- ✓ Different washing cycles can be set for different filters

**Control unit specifications**

|  |                              |
|--|------------------------------|
| <b>DIMENSIONS</b>                        | 324 x 100 x 130 mm           |
| <b>WEIGHT</b>                            | 3 kg                         |
| <b>CONTAINER MATERIAL</b>                | ABS                          |
| <b>IP RATING</b>                         | IP 54                        |
| <b>ELECTRICAL POWER SUPPLY (+/- 10%)</b> | 220 VAC                      |
| <b>CONSUMPTION</b>                       | 75 mA                        |
| <b>OUTPUT ABSORPTION</b>                 | 20 mA                        |
| <b>INPUT ABSORPTION</b>                  | 8 mA                         |
| <b>BACKUP BATTERY</b>                    | NI-CAD 3.6V - 110 mAh        |
| <b>BACKUP BATTERY LIFE (in OFF mode)</b> | 1 year                       |
| <b>WORKING TEMPERATURE</b>               | 0 - 60 °C                    |
| <b>WORK HUMIDITY</b>                     | 0 - 95% (without condensing) |
| <b>FUSE</b>                              | 0.5 Amp                      |
| <b>OUTPUT TYPE</b>                       | Via Relay                    |
| <b>COMPATIBLE SOLENOIDS</b>              | 24 VAC                       |
| <b>OUTPUTS FUSE</b>                      | 4 Amp                        |

**Solenoid specifications**

|                           |                         |
|---------------------------|-------------------------|
| <b>OPERATING PRESSURE</b> | 0-10 bar                |
| <b>ORIFICE DIAMETER</b>   | 1.5 mm                  |
| <b>FLOW COEFFICIENT</b>   | Kv=0.08 m³/h a 1 bar DP |

**Materials**




|                    |                               |
|--------------------|-------------------------------|
| <b>BODY</b>        | Nylon                         |
| <b>GASKETS</b>     | NBR                           |
| <b>"WET" PARTS</b> | Stainless Steel and Polyamide |









**Electrical Specifications**

|                |                                       |
|----------------|---------------------------------------|
| <b>VOLTAGE</b> | 24 VDC                                |
| <b>POWER</b>   | 3.5 watt                              |
| <b>CURRENT</b> | Tip 0.20 amp<br>Maintenance: 0.20 amp |



# CERTIFICATIONS

| System  | Brand   | Standard / Regulation        | Description                                      | Body            | Certificate no. |
|---|---|------------------------------|--|-----------------|-----------------|
|   |   | UNI EN ISO 9001:2015         | Quality Management System                        | Kiwa            | 19303 - A       |
|   |   | UNI EN ISO 14001:2015        | Environmental Management System                  | Kiwa            | 19303 - E       |
|   |   | UNI EN ISO 45001:2018        | Occupational Health and Safety Management System | Kiwa            | 19303 - I       |
|  | UE 952/2013   | Authorised Economic Operator | Customs Agency and State Monopolies              | IT AEOF 16 1155 |                 |

| Product | Country           | Brand   | Standard             | Description  | Body       | Certificate no.          |
|---------|-------------------|---|----------------------|--|------------|--------------------------|
|         | ITALY             |   | UNI 9561:2006        | Connecto™ +Ultra   | Kiwa       | KIP-107560               |
|         |                   |   | UNI 7990:2015        | Irritec® BD<br>Genlene® BD drinkable                     | Kiwa       | KIP-107561<br>KIP-107562 |
|         |                   |   | UNI EN ISO 9261:2010 | Drip line Tandem® - Multibar™ C<br>Multibar™ C Rootguard | Kiwa       | KIP-107564               |
|         |                   |   |                      | Drip line D5™  | Kiwa       | KIP-107564               |
|         |                   |   |                      | Drip line Junior®  | Kiwa       | KIP-107564               |
|         |                   |   |                      | Drip line P1®  | Kiwa       | KIP-107564               |
|         |                   |   | UNI EN 12201-2:2013  | Irritec® - Genlene®                                      | Kiwa       | KIP-107557               |
|         |                   |   | UNI EN 1622:2006     |  |            |                          |
|         |                   |   | D.M. 174:2004        |  |            |                          |
|         | UNI EN 15494:2018 | Irritec® - Genlene®   | Kiwa                 | KIP-107559   |            |                          |
|         |                   |    | ISO 8779:2010        | Gpipe® BD  | Kiwa       | KIP-107563               |
|         | GERMANY           |    | GW 335-B3:2011       | Connecto™ +Ultra   | DVGW       | DW-8616BT0102            |
|         | SOUTH AFRICA      |    | SANS 14236:2003      | Connecto™ +Ultra   | SABS       | 8357/13262               |
|         | SWITZERLAND       |    | TPW 157              | Connecto™ +Ultra   | SVGW       | 1103-K 298               |
|         | AUSTRALIA         |    | AS/NZS 4129:2008     | Connecto™ +Ultra   | SAI GLOBAL | WMKA21524                |
|         | UNITED KINGDOM    |    | BS 6920-1:2000       | Connecto™ +Ultra   | WRAS       | 1712054                  |





**Irritec S.p.A.**

Via Gambitta Conforto, C.da S. Lucia SNC - 98071 Capo d'Orlando (Me) - Italy  
Tel. +39 0941 922111 - Fax +39 0941 958807 - [www.irritec.com](http://www.irritec.com) - [irritec@irritec.com](mailto:irritec@irritec.com)

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