

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 m³/h



Filtering Surface
800 - 11300 cm²



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



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

Conditions of use

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



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Selecting the correct model

| | | | | | | | |
|--|---------------|--|--------------|--------------|--------------|--|---------------|
| | BODY DIAMETER | 320 mm | 400 mm (16") | 500 mm (20") | 600 mm (24") | 900 mm (36") | 1200 mm (48") |
| | CONNECTIONS | 1" | 1 1/2" | 2" | | 3" | 4" |
| | MODEL | Type A | | | | Type B | |
| | |  | | | |  | |

| | | | | | | | |
|------------------------|--------------------|-----------------|----------|-------------------------------------|----------|----------|-----------|
| General Specifications | CONNECTION TYPE | Threaded Female | | Threaded Female - Flanged - Grooved | | | |
| | FILTERING SURFACE | 800 cm² | 1300 cm² | 2000 cm² | 2800 cm² | 6400 cm² | 11300 cm² |
| | QUANTITY OF SAND | 40 kg | 75 kg | 100 kg | 150 kg | 350 kg | 800 kg |
| | MAXIMUM FLOW RATE | 6 m³/h | 11 m³/h | 18 m³/h | 28 m³/h | 62 m³/h | 90 m³/h |
| | FILTERING CAPACITY | VERY HIGH | | | | | |

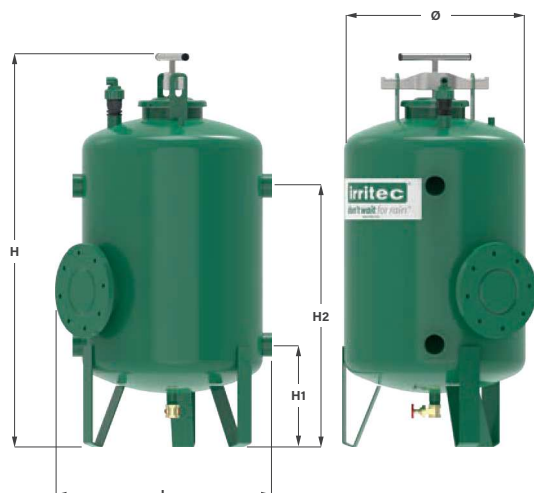
| | | | | | | | |
|---------------|-------------------|--|--------|--------|---------|---------|---------|
| Backwash Data | MINIMUM FLOW RATE | 3 m³/h | 5 m³/h | 8 m³/h | 11 m³/h | 25 m³/h | 45 m³/h |
| | MINIMUM PRESSURE | 2.5 bar | | | | | |
| | MIN TIME BACKWASH | 60 - 120 sec. | | | | | |
| | BACKWASH CRITERIA | ΔP max 0.5 bar - washing cycles according to water quality | | | | | |

| | | |
|--------------|--|--|
| Applications |  AGRICULTURE | Primary filtration of "Difficult" water - medium-large systems |
| |  LANDSCAPE | |

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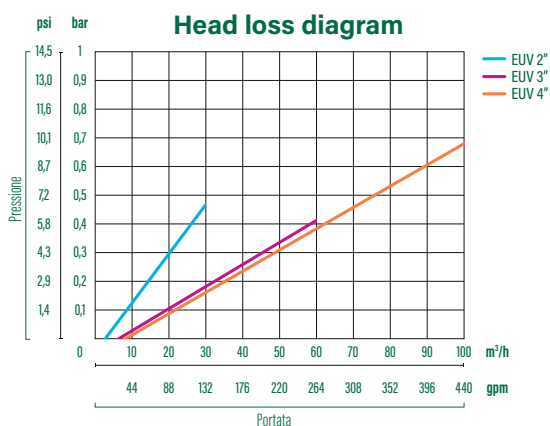
Type A



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 | 670 | | | | | | | |
| 900 | 3" | threaded female | IFEUV30H900 | Type B | 52 | 32÷62 | 1040 | 400 | 1245 | 150 |
| | | grooved | IFEUV30W900 | | | | 1070 | | 1275 | |
| | | flanged | IFEUV30F900 | | | 32÷62 | 1080 | | 1285 | 157 |
| | threaded female | IFEUV40H900 | 1050 | | | | 1255 | | 152 | |
| 1200 | 4" | flanged | IFEUV40F900 | | 88 | 35÷65 | 1080 | 440 | 1285 | 160 |
| | | threaded female | IFEUV40H1200 | | | | 1350 | | 1365 | 230 |
| | | grooved | IFEUV40W1200 | | | 1370 | 1385 | | | |
| | | flanged | IFEUV40F1200 | | | 1380 | 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 |