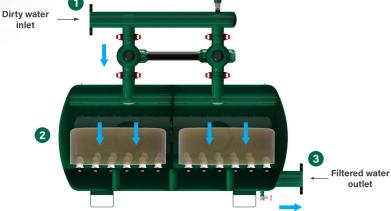
SAND MEDIA DUAL FILTERS



Advantages

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

Filtration stage



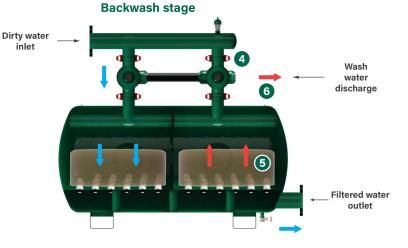
Principle of operation

Filtration stage

- 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.





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 m3/h) in a single compact body
- Robustness and transportability





SAND MEDIA

Description

Dual chamber sand media filter with "plate" and "mushroom" diffuser drainage. It combines the functions of 2-element battery in a compact and transportable body. Ideal for treating difficult waters (high turbidity, presence of algae and other organic residues) in medium-sized systems.









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

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< th=""></ph<11<>
MAX TEMPERATURE	60 °C / 140 °F
MAX PRESSURE	8 bar at 20°C
MIN PRESSURE	2.5 bar (backwash stage)



ER



Selecting the correct model

BODY DIA	AMETER	400 mm	500 mm	600 mm	750 mm	850 mm
CONNEC	CTIONS	1"1/2	2"	3"	4"	5"
CONNECT QUANTITY FILTERING MAXIMUM I	ION TYPE	Threade	d Female	Threaded Fem	nale - Flanged	Flanged
QUANTITY	OF SAND	60 kg	120 kg	200 kg	450 kg	600 kg
FILTERING	SURFACE	3490 cm ²	4910 cm ²	6630 cm ²	11040 cm ²	15050 cm ²
MAXIMUM I	FLOW RATE	11 m³/h	30 m³/h	60 m³/h	80 m³/h	110 m ³ /h
FILTERING	CAPACITY	VERY HIGH				
MINIMUM F	LOW RATE	7 m³/h	10 m³/h	14 m³/h	22 m³/h	30 m³/h
MINIMUM	PRESSURE	2.5 bar				
MIN TIME B	BACKWASH			60 - 120 sec.		
BACKWASH	I CRITERIA	ΔP max 0.5 bar - washing cycles according to water quality				
AGRICU	JILTURE		Primary filtra	tion of "Difficult" water - medium-	large systems	
	11.	, mater mater materials and a second				

Compatible automation kits (to be ordered separately)

KTB

LANDSCAPE



Ref.	Description
IFKTBS02IM	2 outlets - 12VDC latch

KFA



Ref.	Description
IFKFAU02I0	2 outlets - 24VAC

KPB



Ref.	Description
IFKPBS02IM	2 outlets - 12VDC latch

KFB



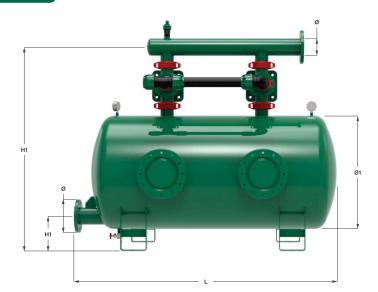
Ref.	Description
IFKFBS02I0	2 outlets - 12VDC latch

DUAL CHAMBER FILTER: CONTROL VALVE OPTIONS					
FILTER BODY AND MANIFOLD	BALL VALVE KIT (MANUAL)	3-WAY VALVE KIT (AUTOMATABLE)			
IFERVISH					
0FER3V20H					
0FER3V30H	OFKMRV0GI	IFKMV02G			
0FER3V30F					
0FER3V40H					
0FER3V40F	OFKMRVOLM IFKMV02I				
0FER3V50F					



ER

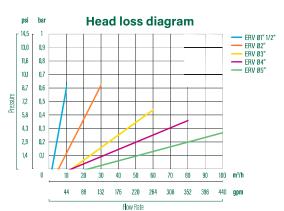
SAND MEDIA DUAL FILTERS





Ø body (mm)	Conne	ections	Code	Number of Nozzles	Filtration Surface (cm²)	Flow rate (m³/h)	L (mm)	H (mm)	H1 (mm)	H2 (mm)	Weight (kg)									
400	11/2"	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	2"	threaded female	IFER3V30H	46	46	40	46	40	40	40	AC	40	40	0000	30÷60	1350	670	245	1000	150
600	3"	flanged	IFER3V30F			6630	30÷60	1330	070	240	1220	140								
750		threaded female	IFER3V40H	00	110.40	40 - 00	1730	000	045	1420	260									
750	4"	flanged	IFER3V40F	68	11040	40÷80	1700	820	245	1430	270									
850	5"	flanged	IFER3V50F	86	15050	70÷110	2050	920	280	1550	350									





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

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





Description

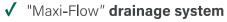
Dual chamber sand media filter with manifold and "maxi-flow" diffuser drainage. It combines the functions of a 2-element battery in a compact and transportable body. The unique central outlet design is ideal for compact installations and mounting on a trolley.







Advantages



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

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< th=""></ph<11<>
MAX TEMPERATURE	60 °C / 140 °F
MAX PRESSURE	8 bar at 20°C
MIN PRESSURE	2.5 bar (backwash stage)



EM SAND MEDIA

DUAL FILTERS

Selecting the correct model

	BODY DIAMETER	500 mm	600 mm	750 mm	850 mm					
ons	CONNECTIONS	2"	3"	4"	5"					
ficati	CONNECTION TYPE	Threade	d Female	Flar	ged					
peci	QUANTITY OF SAND	150 kg	250 kg	500 kg	700 kg					
General Specifications	FILTERING SURFACE	4910 cm ²	6630 cm ²	11040 cm ²	15050 cm ²					
Gen	MAXIMUM FLOW RATE	30 m³/h	60 m³/h	80 m³/h	110 m³/h					
	FILTERING CAPACITY	VERY HIGH								
g.	MINIMUM FLOW RATE	10 m³/h	14 m³/h	22 m³/h	30 m³/h					
Backwash Data	MINIMUM PRESSURE	2.5 bar								
ckwa	MIN TIME BACKWASH	60 - 120 sec.								
<u> </u>	BACKWASH CRITERIA	ΔP max 0.5 bar - washing cycles according to water quality								
Applications	AGRICULTURE LANDSCAPE	Primary filtration of "Difficult" water								

Compatible automation kits (to be ordered separately)

KTB



Ref.	Description
IFKTBS02IM	2 outlets - 12VDC latch

KFΔ



Ref.	Description
IFKFAU02I0	2 outlets - 24VAC

KPE



Ref.	Description
IFKPBS02IM	2 outlets - 12VDC latch

KFB

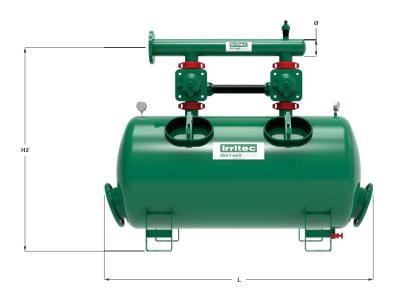


Ref.	Description
IFKFBS02I0	2 outlets - 12VDC latch

DUAL CHAMBER FILTER: CONTROL VALVE OPTIONS FILTER BODY AND MANIFOLD BALL VALVE KIT (MANUAL) 3-WAY VALVE KIT (AUTOMATABLE) IFERV15H OFEM3V20H OFEM3V20H OFEM3V30H OFEM3V30H OFEM3V40F OFEM3V40F OFEM3V50F

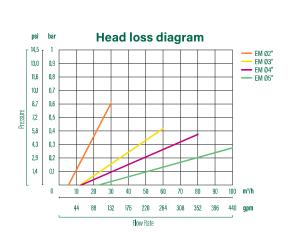








Ø body (mm)	Conne	ections	Code	Number Nozzles	Nozzle Length (mm)	Flow rate (m³/h)	L (mm)	L1 (mm)	H1 (mm)	H2 (mm)	Weight (kg)
500	2"	threaded female	0FEM3V20H	6	383	10÷30	1250	550	190	1020	100
600	3"	threaded female	0FEM3V30H	12	420	30÷60	1450	650	245	1220	150
750	4"	flanged	0FEM3V40F	14	602	40÷80	1850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





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

Model	Model	Flow rate Med Maximum Qu		Poor Quality	Very poor Quality
	2"	30	25	20	15
гм	3"	60	40	25	20
EM	4"	80	60	45	35
	5"	110	90	70	45





SAND MEDIA

Description

Four chamber sand media filter with plate and "mushroom" diffuser drainage. It combines the functions of a 4-element sand media filter battery in a compact and transportable body. Complete with 3-way valves and ready to be automated.







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

FILTER BODY	Structural steel					
MANIFOLDS	MANIFOLDS Structural steel					
COATING	Polyester powder coati (min. thickness 160 micr	0				
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< th=""></ph<11<>
MAX TEMPERATURE	60 °C / 140 °F
MAX PRESSURE	6 bar at 20°C
MIN PRESSURE	2.5 bar (backwash stage)



EQ3V SAND N

Selecting the correct model

	BODY DIAMETER	1200 mm
ons	CONNECTIONS	6"
ficati	CONNECTION TYPE	Flanged
General Specifications	QUANTITY OF SAND	1600 kg
eral	FILTERING SURFACE	22700 cm ²
Gen	MAXIMUM FLOW RATE	160 m³/h
	FILTERING CAPACITY	VERY HIGH
æ	MINIMUM FLOW RATE	35 m³/h
Backwash Data	MINIMUM PRESSURE	2.5 bar
ckwa	MIN TIME BACKWASH	60 - 120 sec.
æ	BACKWASH CRITERIA	Δ P max 0.5 bar - washing cycles according to water quality

AGRICULTURE

LANDSCAPE

Primary filtration of "difficult" water - medium-large systems





Ø body (mm)	Conne	ctions	Code	Number of Nozzles	Flow rate (m³/h)	L (mm)	L1 (mm)	H1 (mm)	H2 (mm)	Weight (kg)
1200	6"	flanged	IFEQ3V60F	192	80÷160	2200	1350	300	1850	860

