

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

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

**KTB**



Ref.	Description
IFKTBS02IM	2 outlets - 12VDC latch

**KFA**



Ref.	Description
IFKFAU02IO	2 outlets - 24VAC

**KPB**



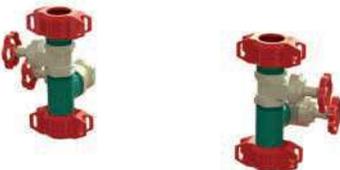
Ref.	Description
IFKPBS02IM	2 outlets - 12VDC latch

**KFB**



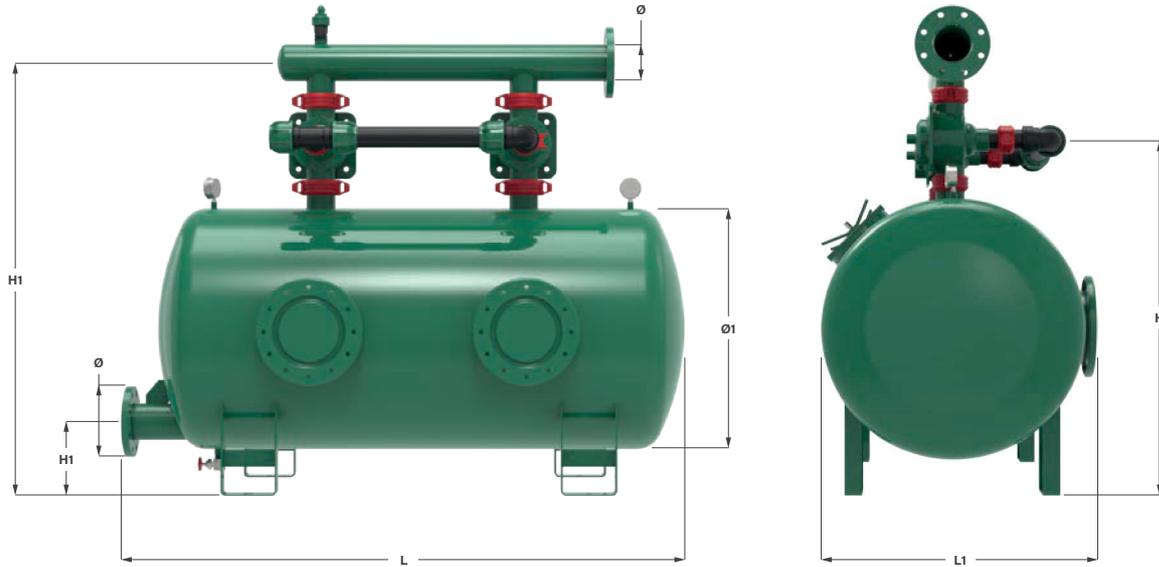
Ref.	Description
IFKFBS02IO	2 outlets - 12VDC latch

**DUAL CHAMBER FILTER: CONTROL VALVE OPTIONS**

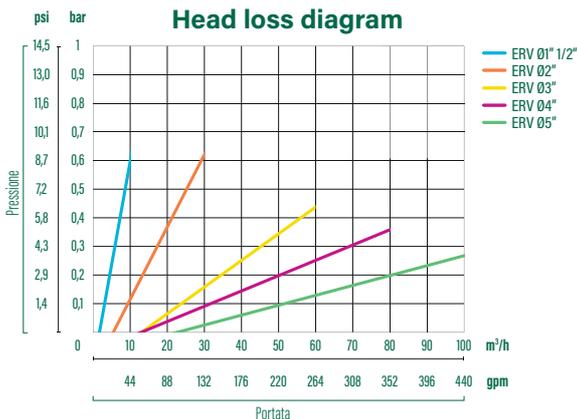
FILTER BODY AND MANIFOLD	BALL VALVE KIT (MANUAL)	3-WAY VALVE KIT (AUTOMATABLE)
		
IFERV15H		
OFER3V20H		
OFER3V30H	OFKMRV0GI	IFKMV02G
OFER3V30F		
OFER3V40H		
OFER3V40F	OFKMRV0LM	IFKMV02I
OFER3V50F		

**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			1700	270				
850	5"	flanged	IFER3V50F	86	15050	70÷110	2050	920	280	1550	350



**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