

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 m³/h



Filtering Surface
4900 - 15000 cm²



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

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 PRESSURE	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 ²	6630 cm ²	11040 cm ²	15050 cm ²
	MAXIMUM FLOW RATE	30 m ³ /h	60 m ³ /h	80 m ³ /h	110 m ³ /h
	FILTERING CAPACITY	VERY HIGH			
Backwash Data	MINIMUM FLOW RATE	10 m ³ /h	14 m ³ /h	22 m ³ /h	30 m ³ /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			
	 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

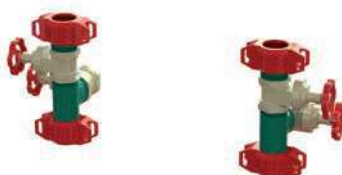
DUAL CHAMBER FILTER: CONTROL VALVE OPTIONS

FILTER BODY AND MANIFOLD



IFERV15H

BALL VALVE KIT (MANUAL)



0FKMRV0GI

0FKMRV0LM

3-WAY VALVE KIT (AUTOMATABLE)



IFKMV02G

IFKMV02I

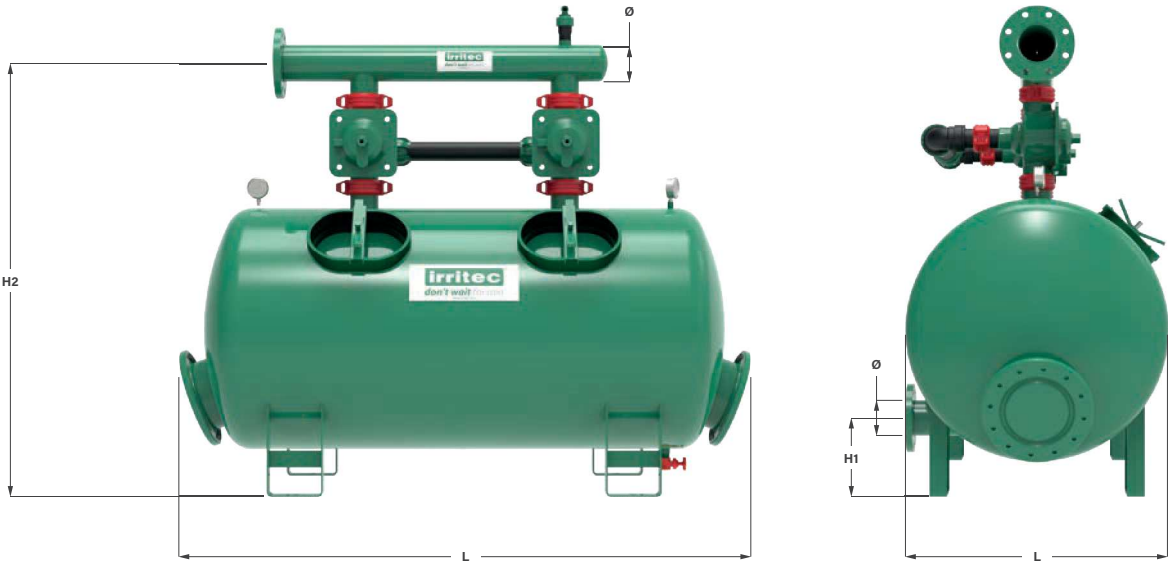
0FEM3V20H

0FEM3V30H

0FEM3V40F

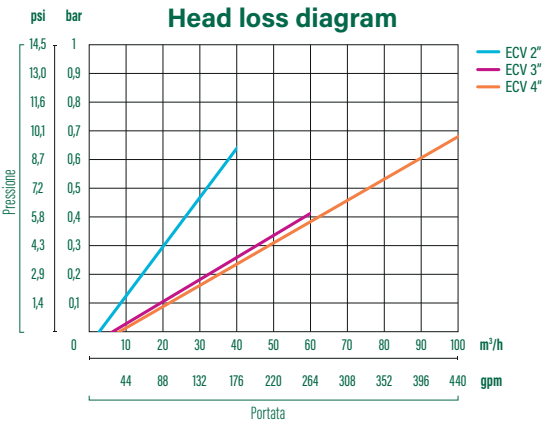
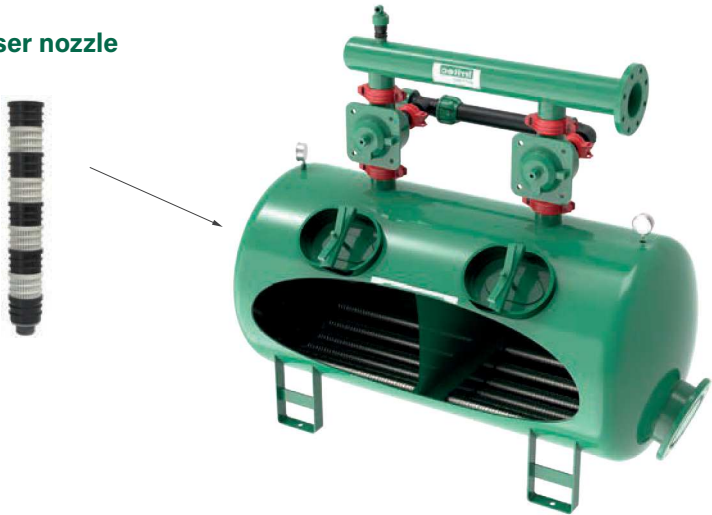
0FEM3V50F

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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