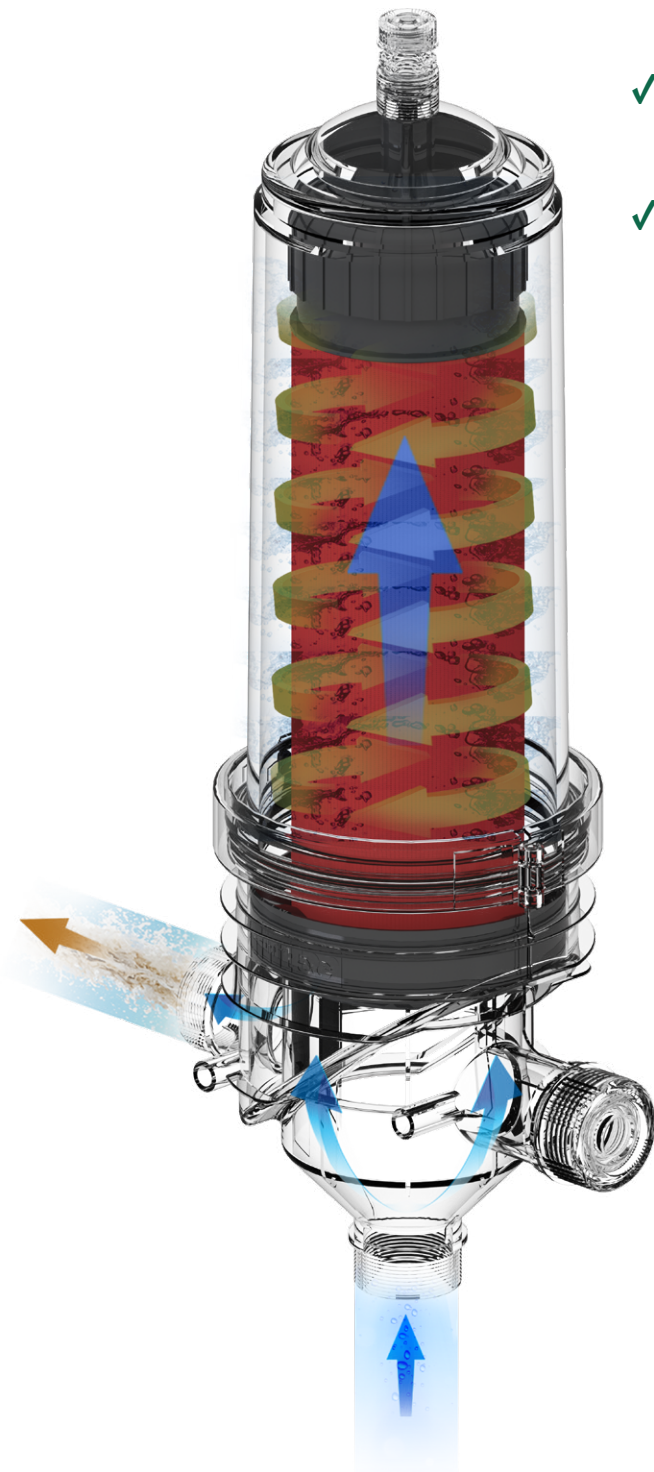


ROTODISK®

A U T O M A T I C

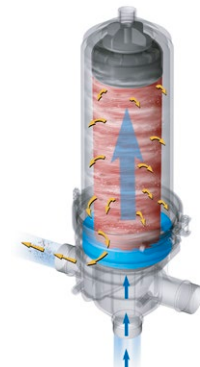
Advantages

- ✓ **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 disks, slowing the rate of clogging. Water passes over the surface of grooved disks 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 disks to separate. The water, through small tangential jets, strikes the surface of the disks, causing them to rotate and ensuring a complete and effective cleaning.



ROTDISK®

A U T O M A T I C

PRODUCT RANGE: Automatic single and dual head models



TAF

Automatic disk filter

Diameter: 2" -3"

Maximum flow rate: 24 m³/h (2") | 32 m³/h (3")

Filtration Surface: 1,450 cm²

Filtration degree

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



RSL

In-line automatic disk filter batteries

Automatic disk 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-head automatic disk filter

Diameter: 4"

Maximum flow rate: 64 m³/h

Filtration Surface: 2,900 cm²

Filtration degree

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



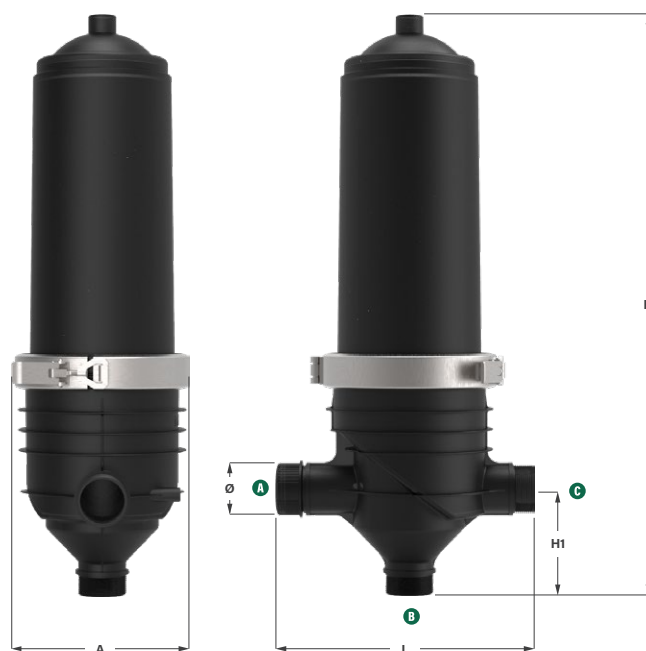
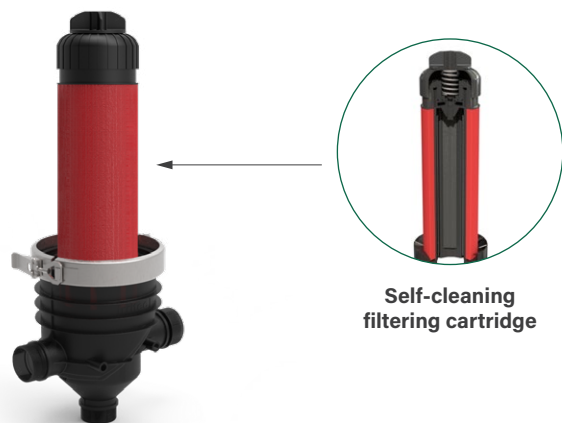
RDL

Double head automatic disk filter battery

DOUBLE HEAD automatic disk 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

Rotodisk Automatic filter with single filtering element: 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 ^{xy} FON	10	24	1450	2.8	9	310 (M) 327 (V, W)	250	720	140	8
3"	IFTAFIE ^{xy} FON		32								

General Specifications

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

Conditions of use

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

Connections

yy: connections (replace with:)

Ref.	A	B	C
M2	BSP	BSP	BSP
V2	GRV	GRV	BSP
W2	GRV	BSP	GRV
M5	NPT	NPT	NPT
V5	GRV	GRV	NPT
W5	GRV	NPT	GRV

BSP: male thread BSP - NPT: male thread
NPT - GRV: grooved

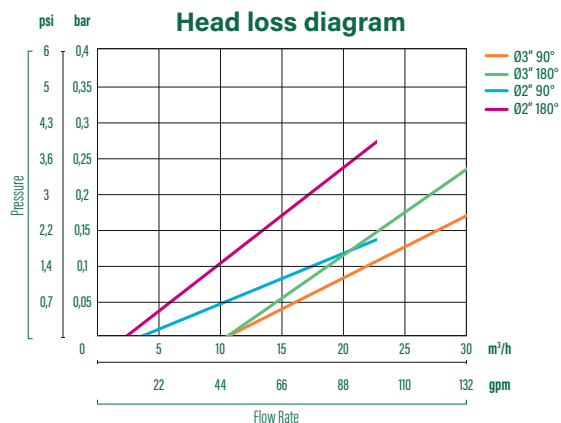
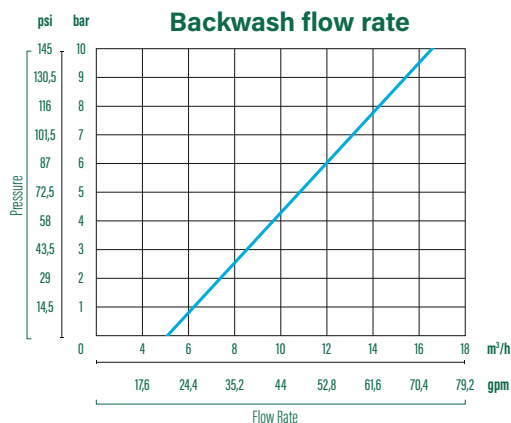
Filtration degree (mesh)

x: mesh (replace with:)

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

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

ROTODISK
AUTOMATIC

Description

Automatic disk 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




BACKWASH VALVES	Reinforced polyamide
GROOVED COUPLINGS	Cast iron
SUPPORTS	Painted Steel Stainless Steel
MANIFOLDS	High-density polyethylene

Conditions of use

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





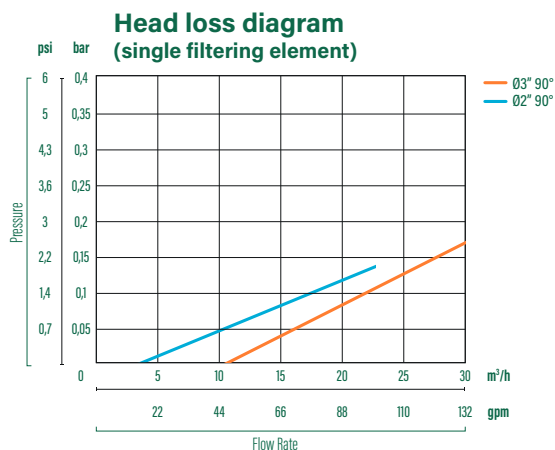
Selecting the correct model

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 m³/h	48 m³/h	72 m³/h	96 m³/h	120 m³/h	144 m³/h	64 m³/h	96 m³/h	128 m³/h	160 m³/h	192 m³/h		
	FILTERING SURFACE	1450 cm²	2900 cm²	4350 cm²	5800 cm²	7250 cm²	8700 cm²	2900 cm²	4350 cm²	5800 cm²	7250 cm²	8700 cm²		
	FILTERING CAPACITY	VERY HIGH							HIGH					

Backwash Data	MINIMUM FLOW RATE	9 m3/h											
	Discharge MANIFOLDS DIAMETER	3" GRV / 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		Primary filtration on medium to large sized systems (water quality from POOR to GOOD)											
	AGRICULTURE	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.)											

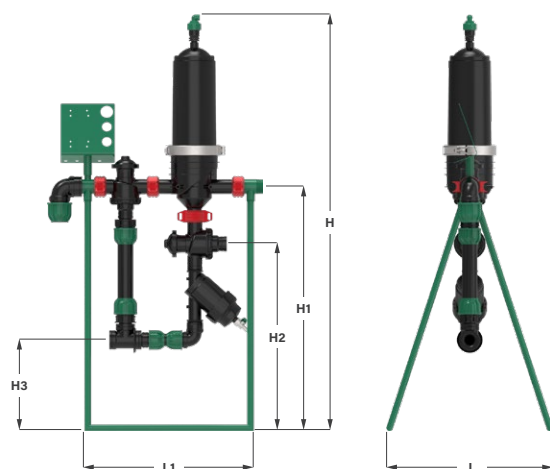


Recommended flow rate (m³/h) according to water quality

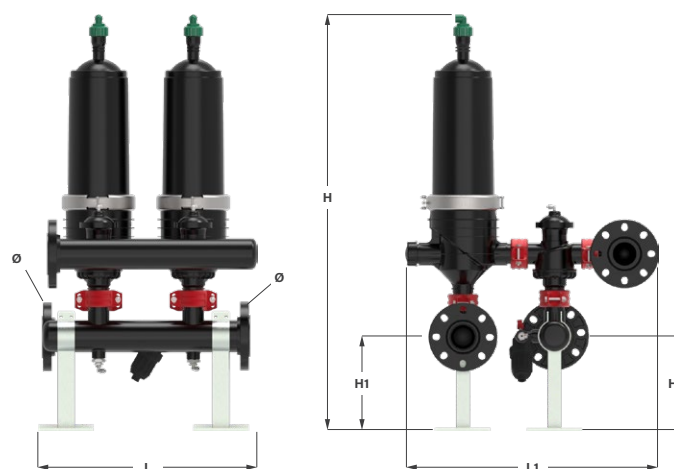
Model	Configuration	Flow rate Maximum	Medium Quality	Poor Quality	Very poor Quality
RSL 2"	1 x 2"	24	20	17	14
	2 x 2"	48	40	34	28
	3 x 2"	72	60	51	42
	4 x 2"	96	80	68	56
	5 x 2"	120	100	85	70
	6 x 2"	144	120	102	84
RSL 3"	2 x 3"	64	50	38	30
	3 x 3"	96	75	57	45
	4 x 3"	128	100	76	60
	5 x 3"	160	125	95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

RSL
RGTCDISK
 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	multi-head	DN100	630	870	1280	280	270	-					
		IFRSL202LVPEx			845		1290	290	280						
	3 x 2"	IFRSL203LVPEx			845			1315	315		300				
	4 x 2"	IFRSL204LVPEx			1120				240						
	5 x 2"	IFRSL205PFPEx			1520		1290	290	240						
	6 x 2"	IFRSL206PFPEx		1790	1315						315	265			
3"	2 x 3"	IFRSL302LVPEx		DN100			650	1335	355				285		
	3 x 3"	IFRSL303PFPEx		DN150			960							1600	
		4 x 3"					IFRSL304PFPEx								1270
	5 x 3"	IFRSL305PFPEx					DN200								1580
		IFRSL305RFPEx													
	6 x 3"	IFRSL306RFPEx													

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
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

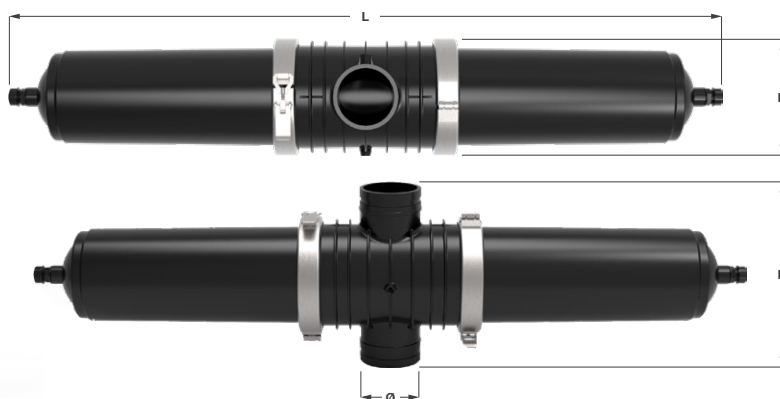

Ref.	Description
IFKCBS02IM	2 outlets - 12VDC latch
IFKCBS03IM	3 outlets - 12VDC latch
IFKCBS04IM	4 outlets - 12VDC latch
IFKCBS05IM	5 outlets - 12VDC latch
IFKCBS06IM	6 outlets - 12VDC latch
IFKCBS07IM	7 outlets - 12VDC latch

Description

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



Self-cleaning
filtering cartridge



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

CONNECTION TYPE	Male threaded (BSP/NPT and/or Grooved)
FILTERING CARTRIDGE	Automatic
CLOSING SYSTEM	Stainless Steel Clamp
DiskHARGE	Female Thread 3/4" BSP (not perforated)
PRESSURE GAUGE CONNECTIONS	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:)

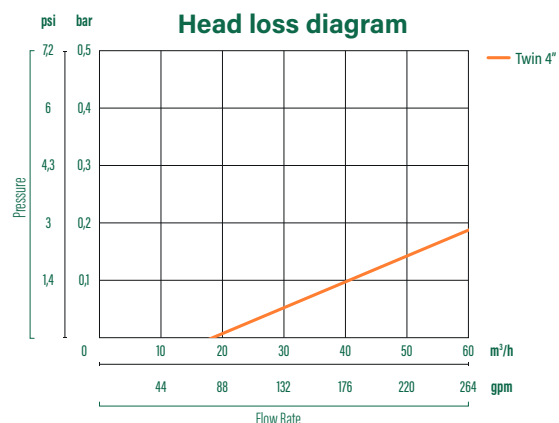
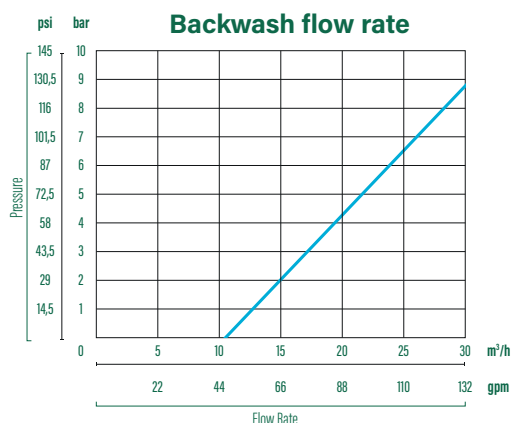
Ref.	Mesh	Micron	Colour	No. of Disks per filtering cartridge
H	75	200		560
L	120	130		642
N	155	100		700

Conditions of use

PH RANGE	4<pH<11
MAX TEMPERATURE	60 °C / 140 °F
MAX PRESSURE	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 HEAD automatic disk 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 m³/h



Filtering Surface
8700 - 29000 cm²



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

BACKWASH VALVES	Reinforced polyamide
GROOVED COUPLINGS	Cast iron
SUPPORTS	Painted Steel Stainless Steel
MANIFOLDS	High-density polyethylene

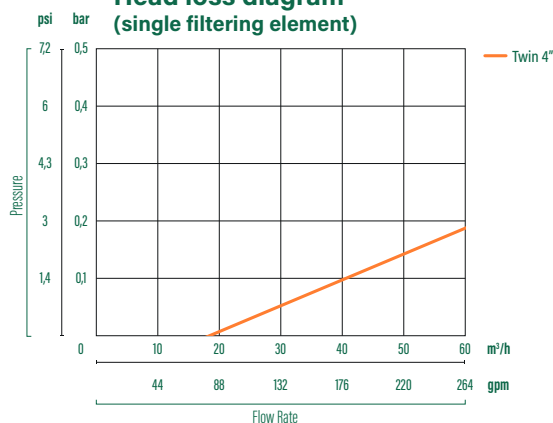
Conditions of use

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

Selecting the correct model

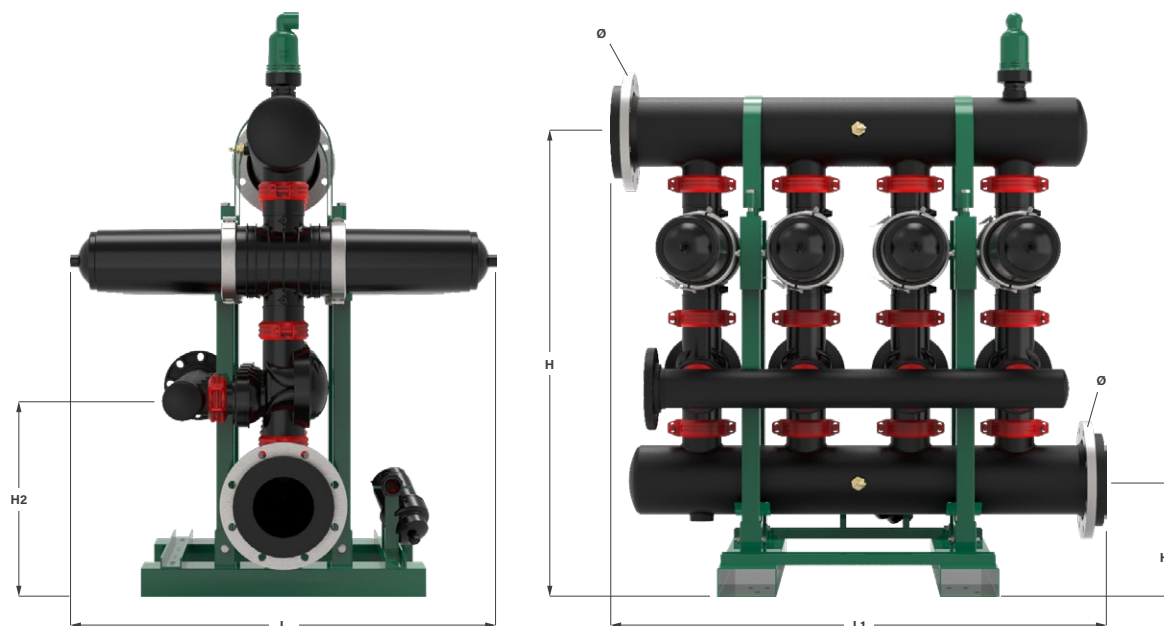
D. MANIFOLDS		8"		10"			12"		
No. OF ELEMENTS PER DIAMETER		3 x 4"	4 x 4"	5 x 4"	6 x 4"	7 x 4"	8 x 4"	9 x 4"	10 x 4"
MODEL									
General Specifications	CONNECTION TYPE	Flanged							
	FILTRATION DEGREES	75 - 120 - 155 mesh (200 - 130 - 100 micron)							
	BACKWASH VALVE	4" x 4" x 3"							
	MAXIMUM FLOW RATE	192 m ³ /h	256 m ³ /h	320 m ³ /h	384 m ³ /h	448 m ³ /h	512 m ³ /h	576 m ³ /h	640 m ³ /h
	FILTERING SURFACE	8700 cm ²	11600 cm ²	14500 cm ²	17400 cm ²	20300 cm ²	23200 cm ²	26100 cm ²	29000 cm ²
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	 AGRICULTURE	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)							
	 LANDSCAPE	Main filtration on large sized systems (parks, public green spaces, golf courses etc.)							

Head loss diagram
(single filtering element)



Recommended flow rate (m³/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 x	DN200	1240	1120	1185	285	630
	4 x 4"	IFRDL404RFPE x			1420			
	5 x 4"	IFRDL405TFPE x	DN250		1720	1235	310	680
	6 x 4"	IFRDL406TFPE x			2020			
	7 x 4"	IFRDL407TFPE x			2320			
	8 x 4"	IFRDL408VFPE x	DN300		2620	1310	350	750
	9 x 4"	IFRDL409VFPE x			2920			
	10 x 4"	IFRDL4010VFPE x			3220			

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
RDL 4"		Latch Solenoids				24V Solenoids	
	3 x 4"	✓	✓	✓	✓	✓	✓
	4 x 4"	✓	✓	✓	✓	✓	✓
	5 x 4"		✓	✓	✓	✓	✓
	6 x 4"		✓	✓	✓	✓	✓
	7 x 4"			✓	✓	✓	✓
	8 x 4"			✓	✓	✓	✓
	9 x 4"			✓	✓	✓	✓
	10 x 4"			✓	✓	✓	✓



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



Ref.	Description
IFKFBS02IO	2 outlets - 12VDC latch
IFKFBS03IO	3 outlets - 12VDC latch
IFKFBS04IO	4 outlets - 12VDC latch
IFKFBS05IO	5 outlets - 12VDC latch
IFKFBS06IO	6 outlets - 12VDC latch
IFKFBS07IO	7 outlets - 12VDC latch
IFKFBS08IO	8 outlets - 12VDC latch
IFKFBS09IO	9 outlets - 12VDC latch
IFKFBS10IO	10 outlets - 12VDC latch



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



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
IFKFAU02IO	2 outlets - 24VAC
IFKFAU04IO	4 outlets - 24VAC
IFKFAU06IO	6 outlets - 24VAC
IFKFAU08IO	8 outlets - 24VAC
IFKFAU10IO	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