

ARKA

AUTOMATIC DISC FILTER

ARKA automatic disc filter that allows to obtain the maximum quality in filtration and minimum energy consumption on each backflushing process. Modular configurations can be designed to customer preference or space availability. Going with hydraulic backwash valves as well as built-in computer chip for automatic scheduling work, it works as an automatic unattended water filtration system, which ensures continuous water supply while discharging the sewage



FEATURE & ADVANTAGE

- ✓ Automatic cleaning
- ✓ Water and energy saving.
- ✓ Multiple filtration grades
- ✓ Self-cleaning filtering element
- ✓ Modularity, versatility, compatibility
- ✓ Compact assembled system for easy transportation and installation
- ✓ Manufactured in plastic material
- ✓ Easy installation, easy maintenance
- ✓ Resistant to chemical products



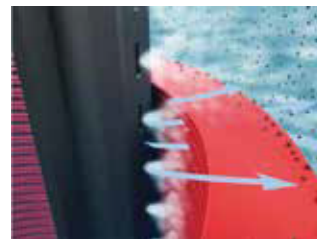
Filtration Phase:

The only route for water passing is through the stack of discs. The solids are retained on the filter element.



Backflushing Phase:

The filtered water is introduced into the filter in the opposite direction. Decompression of the stack of discs. Tangential projection of cleaning water.



MODEL & SPECIFICATION

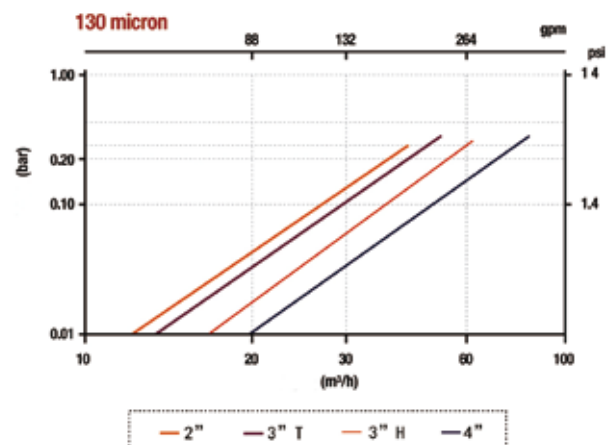


MODEL	CONNECTIONS BSP/NPT	FILTRATION GRADES (mesh)	MAX FLOW (m ³ /h)	MAX PRESSURE (bar)	BACKWASH PRESSURE (bar)	FILTERING SURFACE (cm ²)	WEIGHTS (kg)
F63TDZ	2"	40/80/120/150/200/300	25	10	1.5	1020	7.9
F63TDZ-L	2"	40/80/120/150/200/300	30	10	1.8	1492	9.3
F90TDZ	3"	40/80/120/150/200/300	32	10	1.8	1492	9.4
F90HDZ	3"	40/80/120/150/200/300	50	10	2.0	2040	13.7
F90HDZ-L	3"	40/80/120/150/200/300	55	10	2.0	2984	15.1
F110HDZ	4"	40/80/120/150/200/300	64	10	2.0	2984	15.6

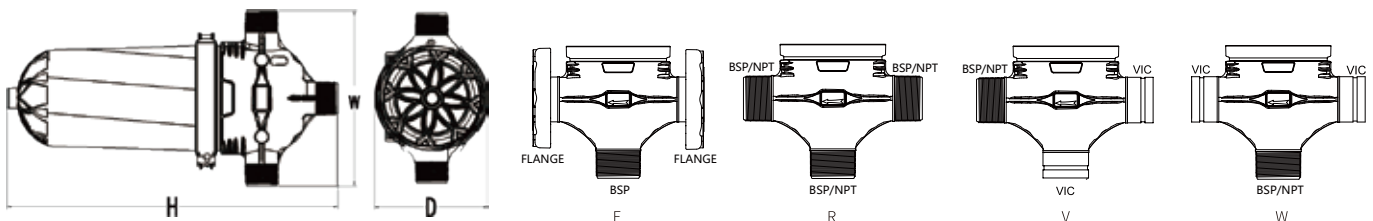
DIMENSION

MODEL	H (mm)	W (mm)	D (mm)
F63TDZ	620	320	220
F63TDZ-L	740	320	220
F90TDZ	750	340	220
F90HDZ	975	340	220
F90HDZ-L	1200	340	220
F110HDZ	1220	340	220

HEAD LOSS



Note: The flow rate will fluctuate with different water quality.



T TYPE AUTO DISC FILTRATION SYSTEM



FEATURE & ADVANTAGE

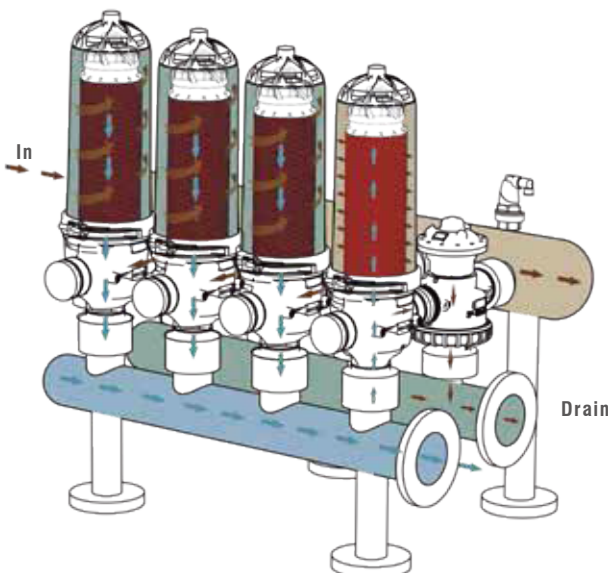
- ✓ Manufactured in polypropylene, resistance to chemical products, wear-resistant;
- ✓ Chip built-in controller to collect water pressure data, achieve unmanned automatic perform;
- ✓ Continuous filtering for water supply during back flush;
- ✓ Smart back flush auto-procedure setting by the discrepancy of water pressure between inlet & outlet;
- ✓ Manual setting for the back flush procedure regularly;
- ✓ Efficient water saving in auto-flushing with minimum pressure 2.8 bar and flow rate 5 L/s minimum.

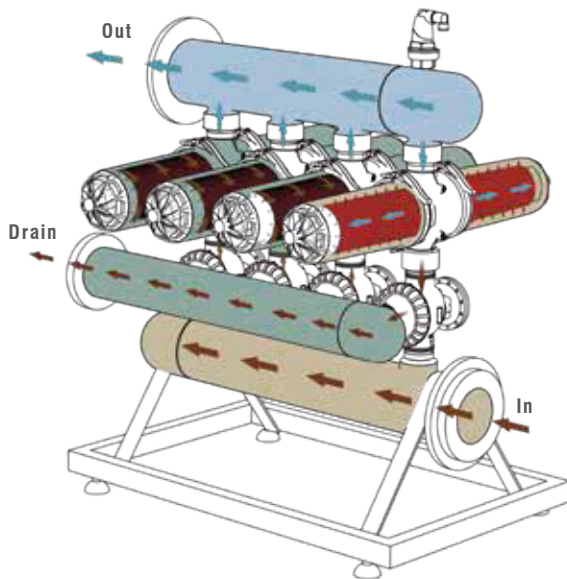


HOW IT WORKS

Filtration stage:

Under the command of the controller, the dirty water flows into the filters in the filtration stage via the back-flushing control valves. Then, the Vortex and the disc keep the particles in the groove of the discs. The clean water flows into the outlet pipe.





Backwashing stage:

Under the command of the controller, only one of filter starts back-flushing at a time. The back-flushing control valves change the water flow direction, then the filtered water is introduced in reverse through the filtering element which decompresses the stack of discs for the backwash procedure. The solids are expelled from the discs and discharged through the drain manifold.

SPECIFICATION

QUALITY OF WATER	3 INCH UINT			2 INCH UINT	
	MICRON MESH	130 120	130 120	130 120	100 150
GOOD	m ³ /h	36	32	25	17
AVERAGE	m ³ /h	32	30	20	14
POOR	m ³ /h	26	24	18	10
VERY POOR	m ³ /h	16	14	12	7

BACKWASH PRESSURE

	200-130 micron 75-120 mesh	100 micron 150 mesh	50-20 micron
MIN BACKWASH PRESSURE	1.8 bar	2.5 bar	3 bar
	26 psi	36 psi	44 psi
MIN BACKWASH FLOW	2.5 l/s	3.1 l/s	3.3 l/s
	39 gpm	50 gpm	52 gpm

400
400 micron
(40 mesh)

200
200 micron
(80 mesh)

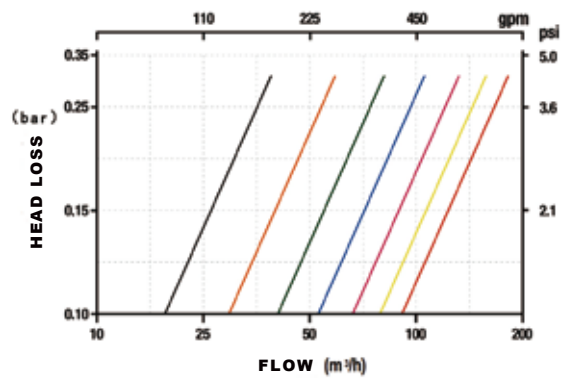
130
130 micron
(120 mesh)

100
100 micron
(150 mesh)

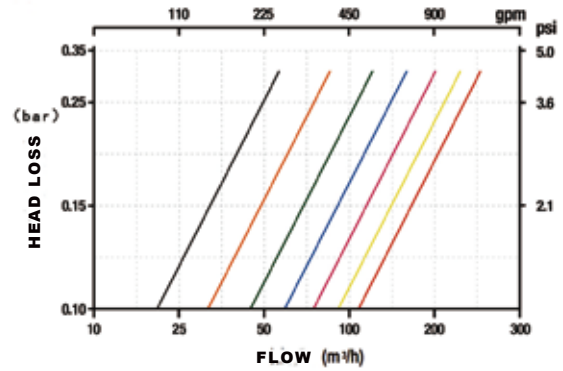
50
50 micron
(200 mesh)

20
20 micron
(300 mesh)

HEAD LOSS

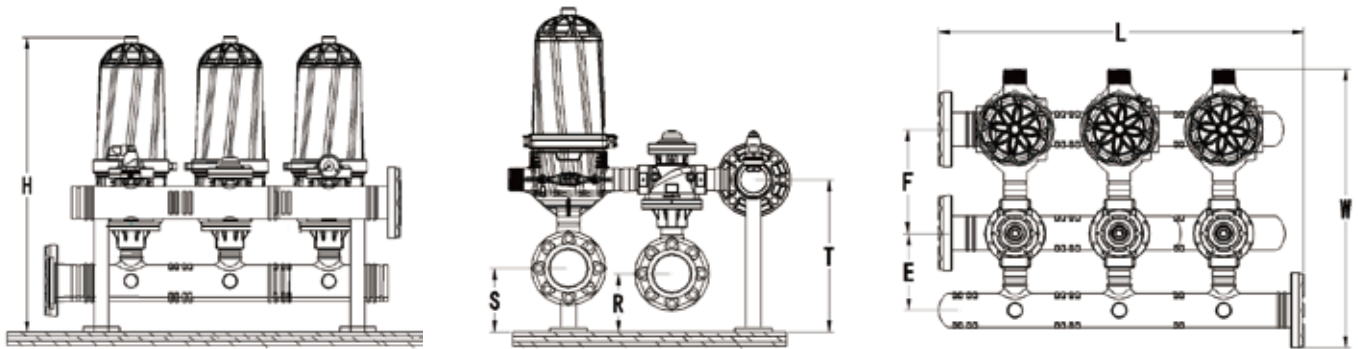


— 202 — 203 — 204 — 205 — 206 — 207 — 208



— 302 — 303 — 304 — 305 — 306 — 307 — 308

DIMENSION



MODEL		SPECIFICATIONS			DIMENSIONS (mm)							
		UNIT NO.	MANIFOLD	MAX FLOW m³/h	L	H	T	R	S	W	E	F
2 inch unit	F202-3	2"x2	3"-80	50	710	880	405	155	170	800	205	280
	F202-4	2"x2	4"-100	50	710	930	450	210	220	830	215	290
	F203-3	2"x3	3"-80	75	985	880	405	155	170	800	205	280
	F203-4	2"x3	4"-100	75	985	930	450	210	220	830	215	290
	F204-4	2"x4	4"-100	100	1260	930	450	210	220	830	215	290
	F205-4	2"x5	4"-100	125	1535	930	450	210	220	830	215	290
3 inch unit	F302-4	3"x2	4"-100	64	710	1050	450	150	200	880	260	305
	F303-4	3"x3	4"-100	96	985	1050	450	150	200	880	260	305
	F304-6	3"x4	6"-150	128	1260	1120	520	220	230	910	290	305
	F305-6	3"x5	6"-150	160	1535	1120	520	220	230	910	290	305
	F305-8	3"x5	8"-200	160	1535	1180	580	250	260	960	320	305
	F306-6	3"x6	6"-150	192	1810	1120	520	220	230	910	290	305
	F306-8	3"x6	8"-200	192	1810	1180	580	250	260	960	320	305
	F307-6	3"x7	6"-150	224	2085	1120	520	220	230	910	290	305
	F307-8	3"x7	8"-200	224	2085	1180	580	250	260	960	320	305
	F308-8	3"x8	8"-200	256	2360	1180	580	250	260	960	320	305

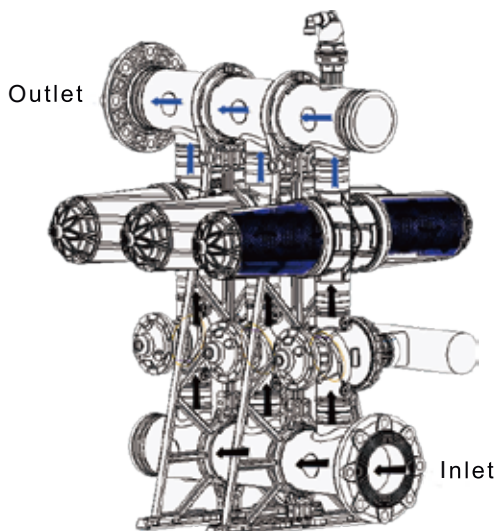
FILTRATION SYSTEM

H TYPE AUTO DISC FILTRATION SYSTEM



FEATURE & ADVANTAGE

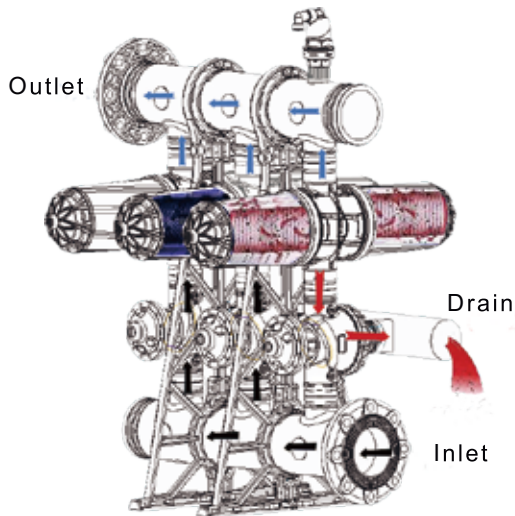
- ✓ Manufactured in High Density Polyethylene, resistance to chemical products, wear-resistant;
- ✓ Chip built-in controller to collect water pressure data, achieve unmanned automatic perform;
- ✓ Continuous filtering for water supply during back flush;
- ✓ Smart back flush auto-procedure setting by the discrepancy of water pressure between inlet & outlet;
- ✓ Manual setting for the back flush procedure regularly;
- ✓ Efficient water saving in auto-flushing with minimum pressure 2.8 bar and flow rate 5 L/s minnum.



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Filtration stage:

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Backwashing stage:

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SPECIFICATION

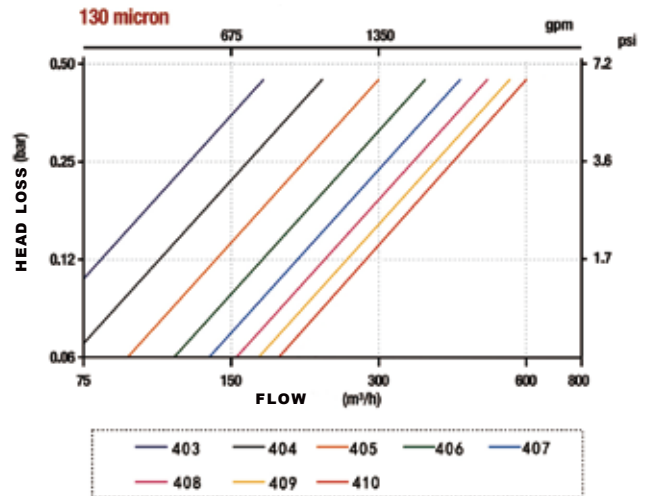
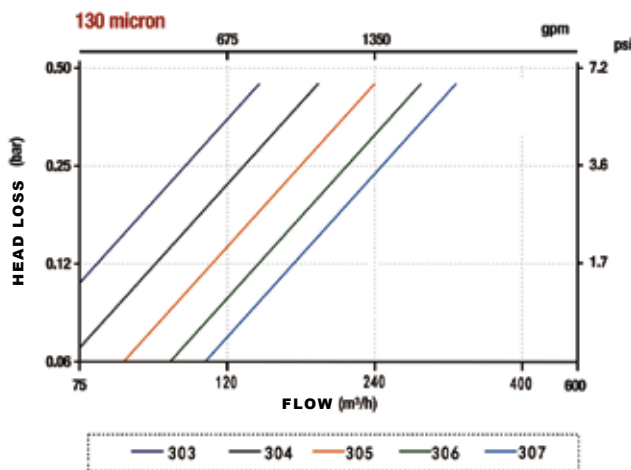
QUALITY OF WATER	3 INCH UINT			4 INCH UINT	
	MICRON MESH	200 80	130 120	130 120	100 150
GOOD	m ³ /h	50	40	64	48
AVERAGE	m ³ /h	42	38	59	40
POOR	m ³ /h	38	36	47	36
VERY POOR	m ³ /h	26	28	28	24

BACKWASH PRESSURE

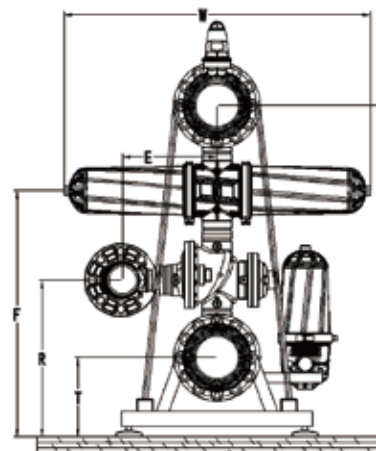
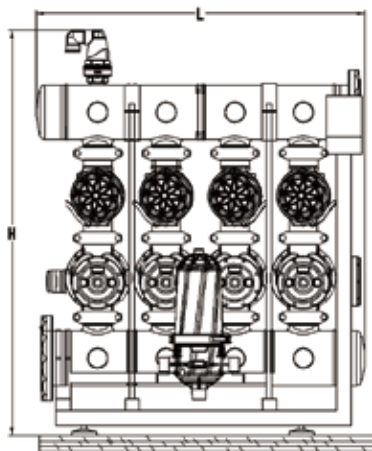
	200-130 micron 75-120 mesh	100 micron 150 mesh	50-20 micron
MIN BACKWASH PRESSURE	1.8 bar	2.5 bar	3 bar
	26 psi	36 psi	44 psi
MIN BACKWASH FLOW	2.5 l/s	3.1 l/s	3.3 l/s
	39 gpm	50 gpm	52 gpm



HEAD LOSS



DIMENSION



MODEL		SPECIFICATIONS			DIMENSIONS (mm)							
		UNIT NO.	MANIFOLD	MAX FLOW m³/h	L	H	T	R	S	W	E	F
3 inch unit	F303H-4	3"x3	4"-100	120	985	1355	280	535	1135	980	350	840
	F303H-6	3"x3	6"-150	120	985	1430	280	560	1185	980	350	865
	F304H-6	3"x4	6"-150	160	1260	1430	280	560	1185	980	350	865
	F305H-6	3"x5	6"-150	200	1535	1430	280	560	1185	980	350	865
	F305H-8	3"x5	8"-200	200	1535	1520	280	590	1275	980	350	895
	F306H-8	3"x6	8"-200	240	1810	1520	280	590	1275	980	350	895
	F307H-8	3"x7	8"-200	280	2085	1520	280	590	1275	980	350	895
4 inch unit	F403-6	4"x3	6"-150	192	985	1460	325	625	1250	1220	380	960
	F404-6	4"x4	6"-150	248	1260	1460	325	625	1250	1220	380	960
	F404-8	4"x4	8"-200	248	1260	1650	290	655	1310	1220	380	990
	F405-6	4"x5	6"-150	320	1535	1460	290	625	1250	1220	380	960
	F405-8	4"x5	8"-200	320	1535	1650	290	655	1310	1220	380	990
	F406-8	4"x6	8"-200	384	1810	1650	290	655	1310	1220	380	990
	F406-10	4"x6	10"-273	384	1810	1760	345	685	1400	1220	380	1020
	F407-8	4"x7	12"-324	448	2085	1650	325	655	1310	1220	380	990
	F407-10	4"x7	10"-273	448	2085	1760	345	685	1400	1220	380	1020
	F407-12	4"x7	12"-324	448	2085	1870	400	705	1490	1220	380	1100
	F408-10	4"x8	10"-273	512	2360	1760	345	685	1400	1220	380	1020
	F408-12	4"x8	12"-324	512	2360	1870	400	705	1490	1220	380	1100
	F409-10	4"x9	10"-273	576	2635	1760	345	685	1400	1220	380	1020
	F409-12	4"x9	12"-324	576	2635	1870	400	705	1490	1220	380	1100
	F410-10	4"x10	10"-273	640	2910	1760	345	685	1400	1220	380	1020
	F410-12	4"x10	12"-324	640	2910	1870	400	705	1490	1220	380	1100



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