

# Philmac Compact Water Filters.



**SMALL**  
3/4" or 1"  
(Disk Only)



**LARGE**  
3/4" or 1"  
(Disk or Screen)



**SPECIAL**  
1" or 1 1/4"  
(Disk or Screen)

Philmac Compact water filters are suitable for irrigation, rural, commercial and domestic filtration.

## Features

- Maximum operating pressure  
Small, Large and Special – 600kPa (87 psi)  
1 1/2" and 2" – 800 kPa (116psi)
- Available with disk, screen or hydrocyclone screen elements and a range of filtration degrees.
- Hydrocyclone screen filters include flush valves.
- Nitrile rubber O-rings for sealing performance.
- Efficient filtration.
- Easy to clean.
- UV resistant.
- Impact resistant.



1 1/2"  
(Screen or Hydrocyclone Screen)



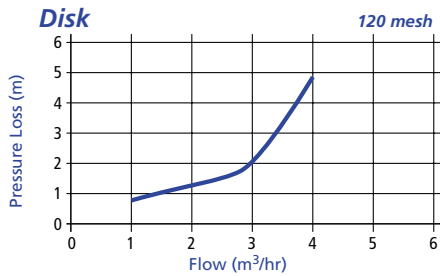
2"  
(Screen or Hydrocyclone Screen)

**Philmac**<sup>®</sup>

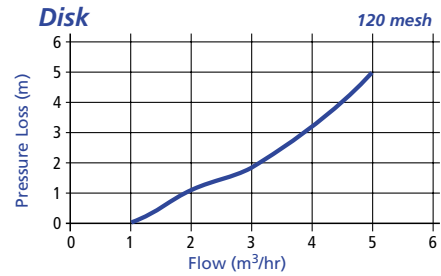
Making water work for you!

# FILTER PRESSURE LOSS

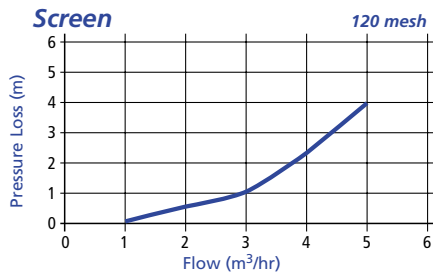
SMALL FILTER 3/4"			
DISK 600kPa max.			
		130 micron 120 mesh	
m3/h	gpm	m	psi
1	3.7	0.6	0.87
2	7.3	1.2	1.74
3	11	1.9	2.76
4	14.7	4.5	6.53



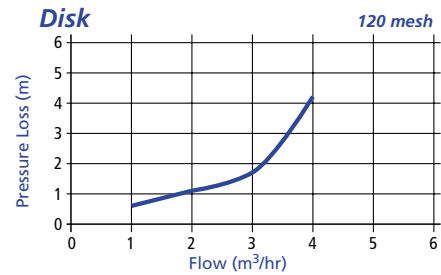
SMALL FILTER 1"			
DISK 600kPa max.			
		130 micron 120 mesh	
m3/h	gpm	m	psi
1	3.7	0	0.00
2	7.3	1.1	1.60
3	11	1.7	2.47
4	14.7	3.1	4.50
5	18.3	4.9	7.11



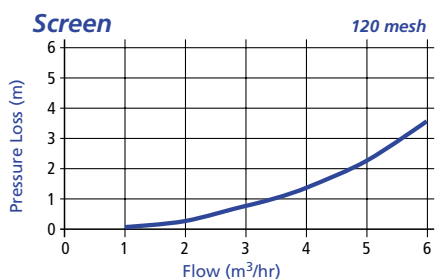
LARGE FILTER 3/4"									
SCREEN 600kPa MAX.									
		250 micron 60 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
1	3.7	0	0.0	0	0.0	0	0.0	0.3	0.4
2	7.3	0.4	0.6	0.5	0.7	0.6	0.9	0.8	1.2
3	11	0.7	1.0	0.9	1.3	1.1	1.6	1.2	1.7
4	14.7	1.9	2.8	2.2	3.2	2.4	3.5	2.7	3.9
5	18.3	3.1	4.5	3.6	5.2	4	5.8	4.5	6.5



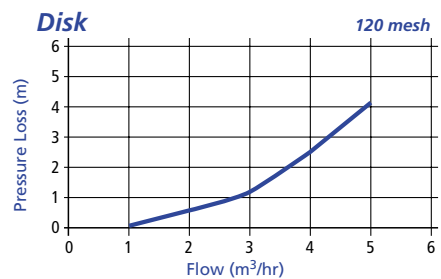
LARGE FILTER 3/4"					
DISK 600kPa MAX.					
		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi
1	3.7	0.6	0.9	0.7	1.02
2	7.3	1.1	1.6	1.2	1.74
3	11	1.7	2.5	2.7	3.92
4	14.7	4.2	6.1	4.6	6.67
5	18.3	-	-	-	-



LARGE FILTER 1"									
SCREEN 600kPa MAX.									
		250 micron 60 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
1	3.7	0	0.00	0	0.00	0	0.00	0.2	0.29
2	7.3	0.2	0.29	0.3	0.44	0.4	0.58	0.5	0.73
3	11	0.5	0.73	0.7	1.02	0.8	1.16	0.9	1.31
4	14.7	1	1.45	1.2	1.74	1.4	2.03	1.6	2.32
5	18.3	1.6	2.32	2	2.90	2.3	3.34	2.6	3.77
6	22	2.4	3.48	2.9	4.21	3.6	5.22	4.1	5.95

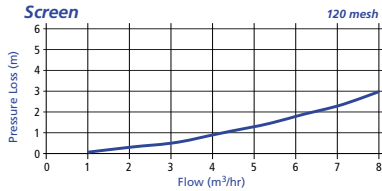


LARGE FILTER 1"					
DISK 600kPa MAX.					
		130 micron 120 mesh		100 micron 50 mesh	
m3/h	gpm	m	psi	m	psi
1	3.7	0	0.00	0.2	0.29
2	7.3	0.6	0.87	0.8	1.10
3	11	1.2	1.74	1.5	2.10
4	14.7	2.5	3.63	2.8	4.06
5	18.3	4.1	5.95	4.5	6.53
6	22	-	-	-	-

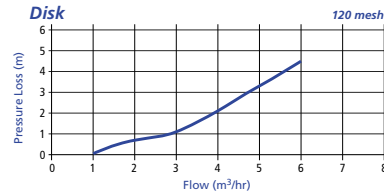


# FILTER PRESSURE LOSS

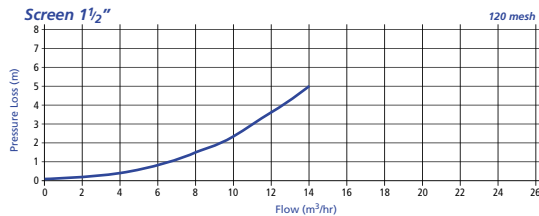
SPECIAL FILTER 1" & 1 1/4"									
SCREEN 600kPa MAX.									
		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh		85 micron 130 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
1	3.7	0	0.00	0	0.00	0	0.00	0	0.00
2	7.3	0.2	0.29	0.3	0.44	0.4	0.58	0.5	0.73
3	11	0.4	0.58	0.5	0.73	0.9	1.31	1.1	1.60
4	14.7	0.7	1.02	0.9	1.31	1.5	2.18	1.8	2.61
5	18.3	1	1.45	1.3	1.89	2.3	3.34	2.6	3.77
6	22	1.4	2.03	1.8	2.61	3.4	4.93	3.8	5.51
7	25.7	1.9	2.76	2.3	3.34	4.7	6.82	5.2	7.54
8	29.3	2.5	3.63	3	4.35				



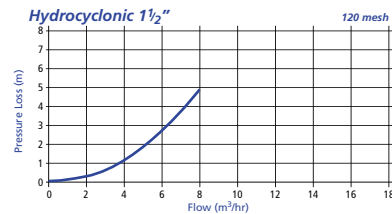
SPECIAL FILTER 1" & 1 1/4"			
DISK 600kPa MAX.			
		130 micron 120 mesh	
m3/h	gpm	m	psi
1	3.7	0	0.00
2	7.3	0.7	1.02
3	11	1.1	1.60
4	14.7	2.1	3.05
5	18.3	3.3	4.79
6	22	4.5	6.53



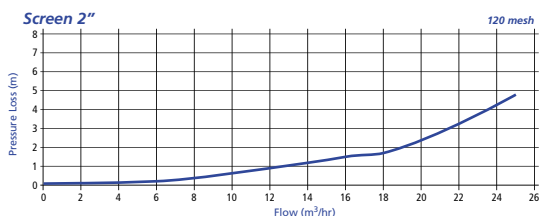
1 1/2" FILTER									
SCREEN 800kPa MAX.									
		250 micron 30 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
0.5	1.8	0.0	0.00	0.0	0.00	0.1	0.15	0.2	0.29
2.0	7.3	0.0	0.00	0.1	0.15	0.2	0.29	0.4	0.58
3.5	12.8	0.1	0.15	0.3	0.44	0.4	0.58	0.7	1.02
5.0	18.3	0.2	0.29	0.4	0.58	0.7	1.02	1.0	1.45
6.5	23.8	0.4	0.58	0.7	1.02	1.1	1.60	1.4	2.03
8.0	29.3	0.6	0.87	1.0	1.45	1.5	2.18	1.9	2.76
9.5	34.8	1.1	1.6	1.6	2.32	2.1	3.05	2.6	3.77
11.0	40.3	1.8	2.61	2.3	3.34	2.9	4.21	3.5	5.08
12.5	45.8	2.7	3.92	3.2	4.64	3.8	5.51	4.5	6.53
14.0	51.3	3.8	5.51	4.3	6.24	5.0	7.25	5.7	8.27



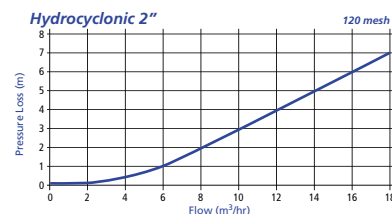
1 1/2" FILTER									
HYDROCYCLONIC SCREEN 800kPa MAX.									
		250 micron 60 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
0.5	1.8	0.0	0.00	0.0	0.00	0.0	0.00	0.1	1.50
2.0	7.3	0.2	0.29	0.3	0.44	0.3	0.44	0.4	5.80
3.5	12.8	0.6	0.87	0.8	1.16	1.0	1.45	1.1	1.60
5.0	18.3	1.3	1.89	1.6	2.32	1.8	2.61	2.0	2.90
6.5	23.8	2.5	3.63	2.9	4.21	3.2	4.64	3.4	4.93
8.0	29.3	4.1	5.95	4.6	6.67	4.9	7.11	5.4	7.83



2" FILTER									
SCREEN 800kPa MAX.									
		250 micron 30 mesh		200 micron 80 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
2.5	9.2	0.0	0.00	0.0	0.00	0.1	1.50	0.1	0.15
5.0	18.3	0.1	0.15	0.1	0.15	0.2	2.90	0.3	0.44
7.5	27.5	0.2	0.26	0.3	0.44	0.4	5.80	0.5	0.73
10.0	36.7	0.2	0.29	0.4	0.58	0.6	8.70	0.8	1.16
12.5	45.8	0.3	0.44	0.6	0.87	0.9	1.31	1.2	1.74
15.0	55.0	0.5	0.73	0.9	1.31	1.3	1.89	1.6	2.32
17.5	64.2	0.8	1.16	1.3	1.89	1.7	2.47	2.1	3.05
20.0	73.3	1.4	2.03	1.9	2.76	2.4	3.48	2.9	4.21
22.5	82.5	2.4	3.48	2.9	4.21	3.4	4.93	4.0	5.80
25.0	91.7	3.7	5.73	4.2	6.09	4.8	6.96	5.5	7.98



2" FILTER									
HYDROCYCLONIC SCREEN 800kPa MAX.									
		250 micron 80 mesh		200 micron 60 mesh		130 micron 120 mesh		100 micron 150 mesh	
m3/h	gpm	m	psi	m	psi	m	psi	m	psi
2.5	9.2	0.0	0.00	0.0	0.00	0.1	0.15	0.1	0.15
5.0	18.3	0.2	0.29	0.4	0.58	0.6	0.87	0.8	1.16
7.5	27.5	0.9	1.31	1.3	1.89	1.7	2.47	2.0	2.9
10.0	36.7	1.9	2.76	2.4	3.48	2.9	4.21	3.3	4.79
12.5	45.8	3.0	4.35	3.6	5.22	4.2	6.09	4.7	6.82
15.0	55.0	4.4	6.38	5.0	7.25	5.5	7.98	6.1	8.85
17.5	64.2	6.0	8.70	6.5	9.43	7.0	10.15	7.5	10.88



# F I L T R A T I O N      D E G R E E

DISK					
	3/4" & 1" Small		3/4" & 1" Large		1" & 1 1/4" Special
Mesh	120	150	120	150	120
Colour	Red	Black	Red	Black	Green
mm	0.13	0.10	0.13	0.10	0.13
Micron	130	100	130	100	130

SCREEN					
3/4" & 1" Large					
Mesh	60	80	120	150	
Colour	Grey	Black	Red	Brown	-
mm	0.25	0.20	0.13	0.10	-
Micron	250	200	130	100	-
1" & 1 1/4" Special					
Mesh		80	120	150	180
Colour	-	Black	Red	Brown	Yellow
mm	-	0.20	0.13	0.10	0.085
Micron	-	200	130	100	85
1 1/2" Screen & Hydrocyclonic Screen					
Mesh	60	80	120	150	
Colour	Grey	Black	Red	Brown	-
mm	0.25	0.20	0.13	0.10	-
Micron	250	200	130	100	-
2" Screen & Hydrocyclonic Screen					
Mesh	60	80	120	150	
Colour	Grey	Black	Red	Brown	-
mm	0.25	0.20	0.13	0.10	-
Micron	250	200	130	100	-

## F I L T E R   E L E M E N T   D I M E N S I O N S

Filter Size		Small	Large	Special	1 1/2"	2"
Screen	Length (mm)	-	108.5	139.0	167.0	187.0
	Area (mm <sup>2</sup> )	-	12,707	18,025	27,162	40,574
Hydrocyclone Screen	Length (mm)	-	-	-	167.0	187.0
	Area (mm <sup>2</sup> )	-	-	-	27,162	40,574
Disk	Length (mm)	69.5	111.0	126.5	-	-
	Area (mm <sup>2</sup> )	9,602	15,335	20,773	-	-

### Materials of construction

Component	Material
filter body	polypropylene
filter cap	polypropylene
cap seal O-ring	nitrile rubber
disks	polypropylene
disk support structure	polypropylene
screen	stainless steel 304
screen support structure	polypropylene
filter element O-ring	nitrile rubber

Philmac supply a large range of filters in both plastic and metal bodies with manual or automatic cleaning.



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LE/104/6-01