MEDIA FILTER - SERIES 4000

Odis series 4000 gravel or sand filters, are most efficient for the filtration of water heavily contaminated with algae, organic matter and other impurities, such as in open reservoirs and recycled water systems.

Operating Principle:

Water enters the filter via the inlet located on top of tank and spreads evenly on the media. Dirt particles and organic materials are trapped on the media surface. The clean water percolates through the media and flows out via the filter elements. The cleaning backwash process is done by shutting the inlet of the filter and allowing water to enter from the bottom, lifting the media and releasing the dirt particles that exit the filter through the top drain pipe. This process can be controlled automatically.

Features

- Series 4000 filters use a unique design based on a bottom double-chamber, divided by a steel plate covered by “mushroom shape” diffusers
- These diffusers disperse water evenly, using effectively the whole filter’s volume, which avoids the occurrence of channeling or caking
- Uses media for depth filtration
- Modular design - suitable for use in arrays for various flow rates
- 120 micron extra-durable polyester, applied electrostatically and oven-cured on a zinc-phosphate layer for maximal anti-corrosion protection

Applications

- Used as a Primary filter for water from open reservoirs and recycled water
- Most effective for filtration of water heavily contaminated with algae and organic matter

Specifications

Media size:	0.8mm - 1.2mm crushed quartz
Recommended Flow Range:	Up to 466lpm (Tank sizes: 300mm - 600mm Diameter)
Maximum recommended working pressure:	800kPa
Maximum pressure:	1000kPa
End Connection Type:	Threaded

Part No.	Description
300mm Flow Range: Up to 100lpm	
OD4121	300mm Diameter x 25mm Female BSP thread Media Filter
400mm Flow Range: Up to 183lpm	
OD41615	400mm Diameter x 40mm Female BSP thread Media Filter
500mm Flow Range: Up to 300lpm	
OD4202	500mm Diameter x 50mm Female BSP thread Media Filter
600mm Flow Range: Up to 466lpm	
OD4242	600mm Diameter x 50mm Female BSP thread Media Filter

*** See chart for recommended flow rates**

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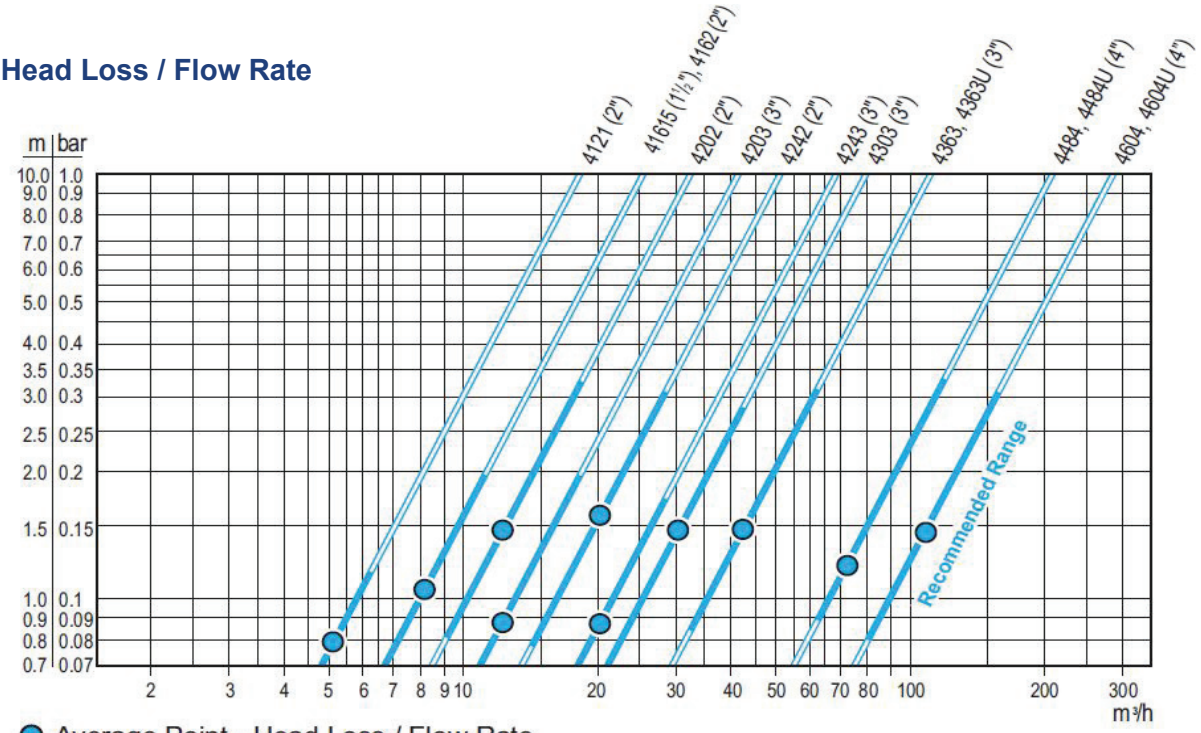
Head Loss

Model	Flow Rate Q (m³ /h)												
	5	10	15	20	25	30	35	40	45	50	55	60	70
	Head Loss dP (bar)												
4121	0.08	0.31	0.69	1.23									
41615	0.04	0.16	0.36	0.64	1.00	1.44							
4202		0.10	0.22	0.39	0.61	0.88	1.20						
4203		0.06	0.13	0.24	0.37	0.54	0.73	0.95	1.20	1.49			
4242		0.04	0.09	0.15	0.24	0.35	0.47	0.62	0.78	0.96	1.16		
4243				0.09	0.14	0.19	0.26	0.35	0.44	0.54	0.65	0.78	1.06

Model	Flow Rate Q (m³ /h)														
	20	30	40	50	60	70	80	90	100	110	130	150	180	200	220	250
	Head Loss dP (bar)															
4303	0.06	0.14	0.26	0.40	0.58	0.79	1.03									
4363		0.07	0.13	0.20	0.28	0.38	0.50	0.63	0.78	0.95						
4484				0.06	0.08	0.11	0.15	0.19	0.23	0.28	0.39	0.53	0.76	0.93	1.13	
4604					0.05	0.06	0.08	0.10	0.13	0.15	0.21	0.28	0.41	0.50	0.61	0.79

Head Loss / Flow Rate



● Average Point - Head Loss / Flow Rate

■ 1 bar=100 kPa=1.02 kg/cm^2=10.2 m (W.C)=14.5 psi

*** Please check with your HR Sales Representative for stock availability**

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Recommended Flow Rates

Model	Inlet/ Outlet Diameter	Body Diameter	Recommended Flow Rate *			
			Minimum	Average*	Maximum	Back Flushing
	mm	mm	m^3/h	m^3/h	m^3/h	m^3/h
4121	25	300	3.5	5	6	7
41615	40	400	6	8	11	10
4202	50	500	9	12	18	15
4203	80	500	10	12	18	15
4242	50	600	14	20	28	25
4243	80	600	14	20	28	25
4303	80	750	21	30	42	38
4363	80	900	32	42	62	54
4484	100	1200	62	72	120	95
4604	100	1500	80	110	150	150

*** Average water quality**
**** For dirty water reduce the flow rate**
***** Larger tanks available upon request**

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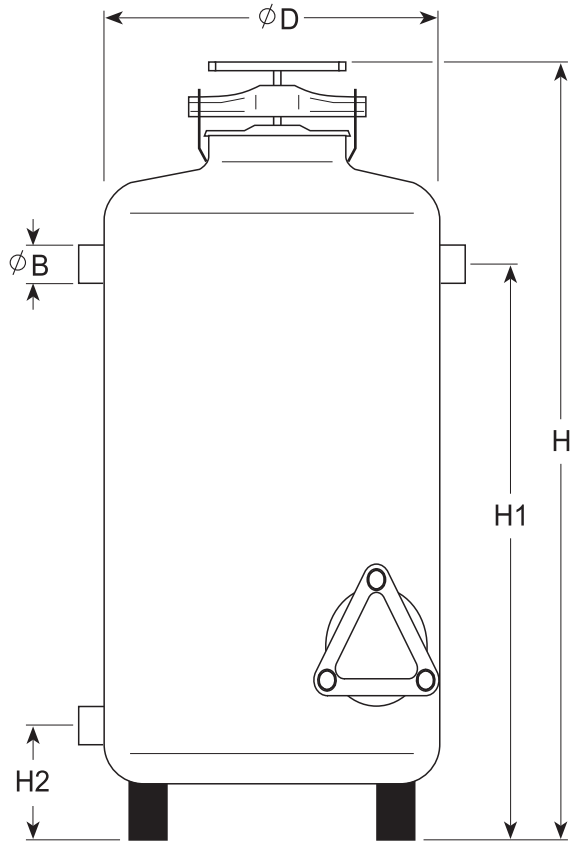
FILTER DIMENSIONS



OD4121

Filter Dimensions
B: 25mm
D: 300mm
H: 1150mm
H1: 775mm
H2: 120mm
Threaded End Connection

OD41615

Filter Dimensions
B: 40mm
D: 400mm
H: 1250mm
H1: 870mm
H2: 180mm
Threaded End Connection

OD4202

Filter Dimensions
B: 50mm
D: 500mm
H: 1250mm
H1: 870mm
H2: 180mm
Threaded End Connection

OD4242

Filter Dimensions
B: 50mm
D: 600mm
H: 1350mm
H1: 950mm
H2: 260mm
Threaded End Connection

Gravel Filling

Models	Inlet / Outlet Diameters	Gravel Filling (kg)
OD4121	25mm	60
OD41615	40mm	90
OD4202	50mm	120
OD4242	50mm	180