

COMMERCIAL DEEP BED SAND FILTER

HK



With Valve

HK



With Flange

- Fiberglass filter body is UV and corrosion Resistant.
- 0.8~1.2M BED depth for finer filtration.
- Lateral with tight gaps are able to keep out filter media and dirt particles.
- Sight glass and Sand drain are available in option.

- Nozzle plate system ensures maximum performance and save up to 25% of backwash water.
- Lateral and nozzle plate are available in option.
- Flange or 6way multiport valve are available in option.

Model	Filter Diameter (mm)	Filter Height (mm)	Design Flow (m ³ /h)	Filter Area (m ²)	Connections (inch/mm)	Sand Weight 0.5-0.8mm (kg)	Grave Weight 1-2mm (kg)
HK15800A	800	1600	20.0	0.50	2"/63	455	170
HK15900A	900	1600	25.6	0.64	2"/63	585	230
HK151000A	1000	1600	31.6	0.79	2"/63	720	270
HK151200A	1200	1600	40.0	1.13	2"/63	1030	450
HK151200A-2.5	1200	1600	45.2	1.13	2.5"/75	1030	450
HK20800A	800	2100	15.0	0.50	2"/63	770	170
HK20900A	900	2100	19.0	0.64	2"/63	990	230
HK201000A	1000	2100	23.7	0.79	2"/63	1220	270
HK201200A	1200	2100	30.0	1.13	2"/63	1740	450
HK201200A-2.5	1200	2100	33.9	1.13	2.5"/75	1740	450

Maximum Working Pressure
250kpa/36psi (2.5bar)
400kpa/58psi (4.0bar)

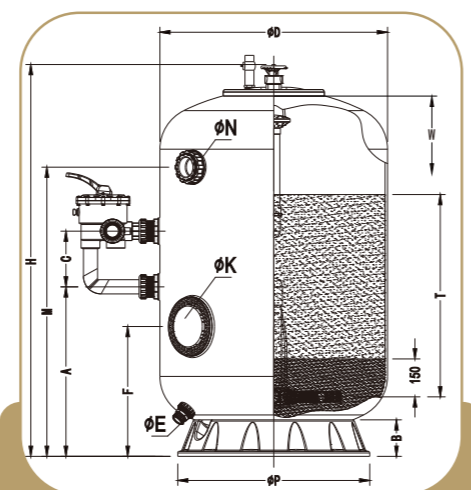
Maximum Temperature
50°C (122F)

Factory Testing Pressure
400kpa/58psi (4.0bar)
600kpa/86psi (6.0bar)

Size of Gravel
1mm~2mm
0.5mm~0.8mm

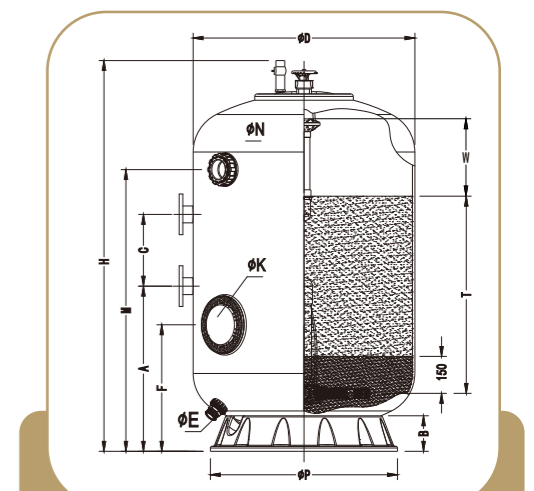
Model	Filter Diameter (mm)	Filter Height (mm)	Design Flow (m ³ /h)	Filter Area (m ²)	Connections (inch/mm)	Sand Weight 0.5-0.8mm (kg)	Grave Weight 1-2mm (kg)
HK15800	800	1600	20.0	0.50	2"/63	455	170
HK15900	900	1600	25.6	0.64	2"/63	585	230
HK151000	1000	1600	31.6	0.79	2"/63	720	270
HK151200	1200	1600	45.2	1.13	3"/90	1030	450
HK151400	1400	1600	61.6	1.54	3"/90	1100	500
HK20800	800	2100	15.0	0.50	2"/63	770	170
HK20900	900	2100	19.0	0.64	2"/63	990	230
HK201000	1000	2100	23.7	0.79	2"/63	1220	270
HK201200	1200	2100	33.9	1.13	3"/90	1740	450
HK201400	1400	2100	46.2	1.54	3"/90	2100	500

Model	HK15800A	HK15900A	HK151000A	HK151200A	HK151200A-2.5	HK20800A	HK20900A	HK201000A	HK201200A	HK201200A-2.5
ØD(mm)	800	900	1000	1200	1200	800	900	1000	1200	1200
H(mm)	1600	1600	1600	1600	1600	2100	2100	2100	2100	2100
A(mm)	700	700	700	700	700	1000	1000	1000	1000	1000
B(mm)	150	150	150	180	180	150	150	150	180	180
C(mm)	220	220	220	220	230	220	220	220	220	230
ØE(mm)	40	40	40	40	40	40	40	40	40	40
F(mm)	520	520	520	600	600	520	520	520	600	600
ØK(mm)	180	180	180	180	180	180	180	180	180	180
M(mm)	1120	1120	1120	1120	1120	1600	1600	1600	1600	1600
ØN(mm)	80	80	80	80	80	80	80	80	80	80
ØP(mm)	790	790	790	1010	1010	790	790	790	1010	1010
T(mm)	800	800	800	800	800	1250	1250	1250	1250	1250
W(mm)	350	350	350	350	350	400	400	400	400	400



HK15800A-HK201200A-2.5 with valve

Model	HK15800	HK15900	HK151000	HK151200	HK151400	HK20800	HK20900	HK201000	HK201200	HK201400
ØD(mm)	800	900	1000	1200	1400	800	900	1000	1200	1400
H(mm)	1600	1600	1600	1600	1600	2100	2100	2100	2100	2100
A(mm)	550	550	550	650	650	800	800	800	800	720
B(mm)	150	150	150	180	190	150	150	150	180	190
C(mm)	350	350	350	350	350	350	350	350	350	350
ØE(mm)	40	40	40	40	40	40	40	40	40	40
F(mm)	520	520	520	600	600	520	520	520	600	600
ØK(mm)	180	180	180	180	180	180	180	180	180	180
M(mm)	1120	1120	1120	1120	1120	1600	1600	1600	1600	1600
ØN(mm)	80	80	80	80	80	80	80	80	80	80
ØP(mm)	790	790	790	1010	1240	790	790	790	1010	1240
T(mm)	800	800	800	800	800	1250	1250	1250	1250	1240
W(mm)	350	350	350	350	350	400	400	400	400	400



HK15800-HK201400 with lateral

HK



With Flange

Maximum Working Pressure

250kpa/36psi (2.5bar)
400kpa/58psi (4.0bar)

Maximum Temperature

50°C (122F)

Factory Testing Pressure

400kpa/58psi (4.0bar)
600kpa/86psi (6.0bar)

Size of Gravel

1mm~2mm
0.5mm~0.8mm

OZ

OZONE REACTOR



- UV resistant wound structural fiberglass tanks.
- Water proof and ozone corrosion resistant layers in the tank.
- Efficient sterilization while water and ozone are mixing.

Maximum Working Pressure

250kpa/36psi (2.5bar)
400kpa/58psi (4.0bar)

Maximum Temperature

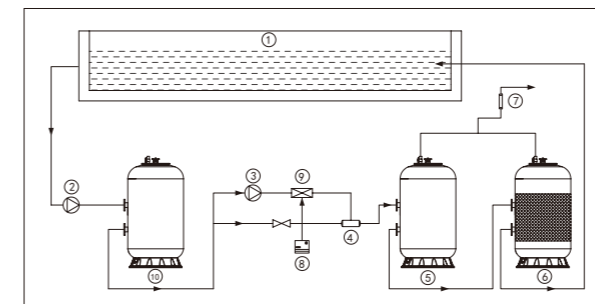
50°C (122F)

Factory Testing Pressure

400kpa/58psi (4.0bar)
600kpa/86psi (6.0bar)

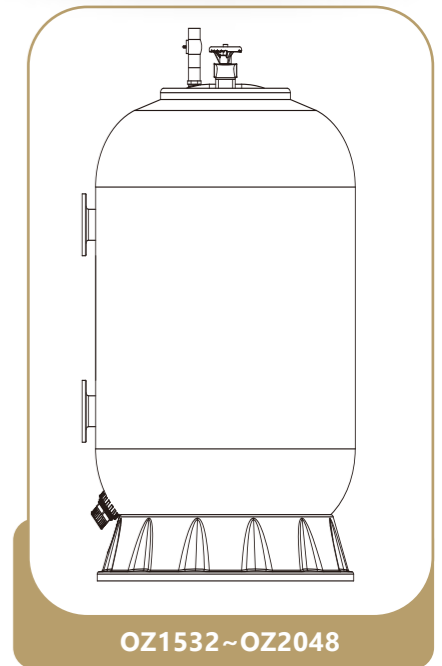
Model	Filter Diameter (mm)	Filter Height (mm)	Design Flow (m³/h)	Filter Area (m²)	Connections (inch/mm)	Sand Weight 0.5-0.8mm (kg)	Grave Weight 1-2mm (kg)
HK15800N	800	1600	20.0	0.50	2"/63	455	110
HK15900N	900	1600	25.6	0.64	2"/63	585	145
HK151000N	1000	1600	31.6	0.79	2"/63	720	175
HK151200N	1200	1600	45.2	1.13	3"/90	1030	255
HK151400N	1400	1600	61.6	1.54	3"/90	1100	320
HK20800N	800	2100	15.0	0.50	2"/63	770	110
HK20900N	900	2100	19.0	0.64	2"/63	990	145
HK201000N	1000	2100	23.7	0.79	2"/63	1220	175
HK201200N	1200	2100	33.9	1.13	3"/90	1740	255
HK201400N	1400	2100	46.2	1.54	3"/90	2100	320

WORK PROCEDURE OF OZONE REACTOR

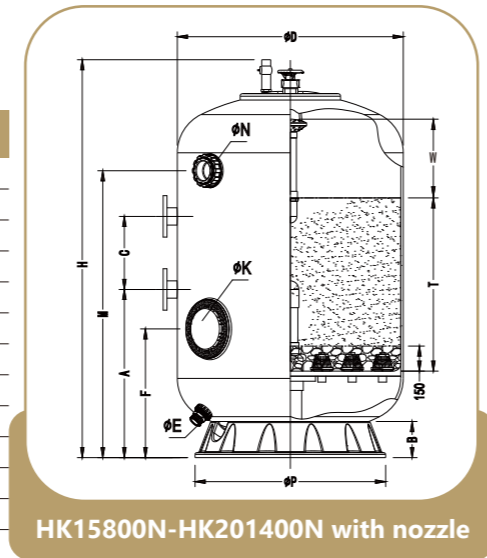


1. POOL
2. CIRCULATING PUMP
3. PRESSURIZED PUMP
4. ONLINE MIXER
5. OZONE REACTOR
6. SUCTION FILTER
7. EXHAUST RESOLVER
8. OZONE DOSING DEVICE
9. OZONE INJECTOR
10. SAND FILTER

Reaction formular: $CT \geq 1.6$. Ozone demand: $P_{O_3} = q_c \times O_3$. Ozone filter size: $V = q_c / 60 \times t$. (C - the amount of ozone added into water. t - the time about ozone and water reaction. V - the volume about ozone reactor. q_c - the circulating water of swimming pool.)



Model	HK15800N	HK15900N	HK151000N	HK151200N	HK151400N	HK20800N	HK20900N	HK201000N	HK201200N	HK201400N
ØD(mm)	800	900	1000	1200	1400	800	900	1000	1200	1400
H(mm)	1600	1600	1600	1600	1600	2100	2100	2100	2100	2100
A(mm)	550	550	550	650	650	800	800	800	800	720
B(mm)	150	150	150	180	190	150	150	150	180	190
C(mm)	350	350	350	350	350	350	350	350	350	350
ØE(mm)	40	40	40	40	40	40	40	40	40	40
F(mm)	520	520	520	600	600	520	520	520	600	600
ØK(mm)	180	180	180	180	180	180	180	180	180	180
M(mm)	1120	1120	1120	1120	1120	1600	1600	1600	1600	1600
ØN(mm)	80	80	80	80	80	80	80	80	80	80
ØP(mm)	790	790	790	1010	1240	790	790	790	1010	1240
T(mm)	800	800	800	800	700	1250	1250	1250	1250	1200
W(mm)	350	350	350	350	350	400	400	400	400	400



Model	Filter Diameter (mm)	Filter Height (mm)	Connections (mm)	Design Flow (m³/h)	Volume (m³)
OZ1532	800	1600	63	18	0.63
OZ1540	1000	1600	63	33	1.12
OZ1548	1200	1600	90	45	1.53
OZ2032	800	2100	63	26	0.88
OZ2040	1000	2100	75	40	1.51
OZ2048	1200	2100	90	63	2.1