

Specification sheet for WSD-XFK+

POST CARBON BLOCK FILTER with Polyphos

- Remove sediment particles and chlorine, bad taste and odor as well.
- Available Capacity: 3,600ℓ
- Service Life(10ℓ/day): 12months
- Expected Life 6000L/ 6 months.

	MODULE			Housing	
Feature	<ul style="list-style-type: none"> ▪ Material: Powdered Activated Carbon + Polyethylene ▪ Type: Block Carbon ▪ Principal: Adsorption ▪ Particle reduction: >3μm ▪ ER(easy replacement) type only for 8" ▪ Made in Korea(Handok Cleantech, Altwel Tech) 			<ul style="list-style-type: none"> ▪ Material: Polypropylene ▪ Made in Korea. 	
Size(mm)	Inner Diameter	Out Diameter	Length	Diameter	Length
8" ER	21±0.75	45±0.75	152±1	66	177.5
10"	21±0.5	41.5±0.5	182±1	64	254
12"	21±0.5	41.5±0.5	222.3±1	64	304

*[Maximum condition] Pressure: 4.0kgf/cm², Flow: 3.8ℓ/min, Temp: 45°C(113°F)

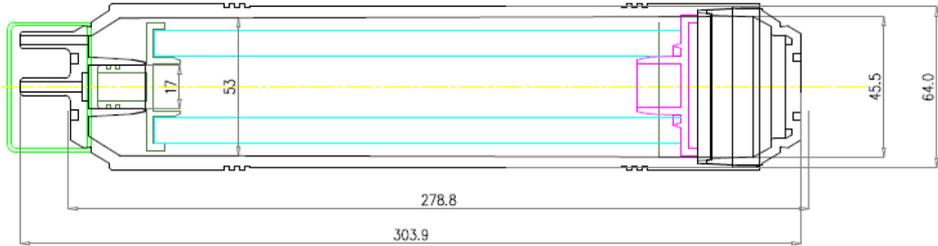


Filter has 3/8" INLET & OULLET push fit connections



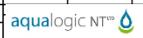
REV	ZONE	CHANGE	DATE	DGN.	CHK.	APP.

POST CARBON BLOCK 필터 12" U-Type



PART LIST					
NO.	DISCRPTION	SPECIFICATION	NEED	METERIAL	REMARK
1	보호캡	ø50 * L32 * T1.2	1	PP	SK케미칼
2	포스트캡	ø10 * ø16 * T1.4	2	LDPE	한화케미칼
3	하우징	ø64 * 303.9 * T3.5	1	PP	SK케미칼
4	O링	ø16 * ø12 * T2	1	SILICONE	DOWCORNING
5	카본블럭 캡	ø52.4 * L37.2 * T2	2	PP	SK케미칼
6	카본블럭	ø41.5 * L200	1	삼육탈산탄	전북스핀텍
7	리테이너	ø45.5 * L19.8 * T1.5	1	PP	SK케미칼
8	하우징 캡	ø60.7 * L39.6	1	PP	SK케미칼

NO.	PART NO.	DESCRIPTION	SPECIFICATION	Q.TY	REMARK
TR	DATE	DES.	CHK.	APP.	MODEL NO. 경우기용 제작
UNIT	1/1				WSD-XFK+
SCALE	1/1				
TTL	0.20				



12inch Scale Inhibitor Filter Test Report

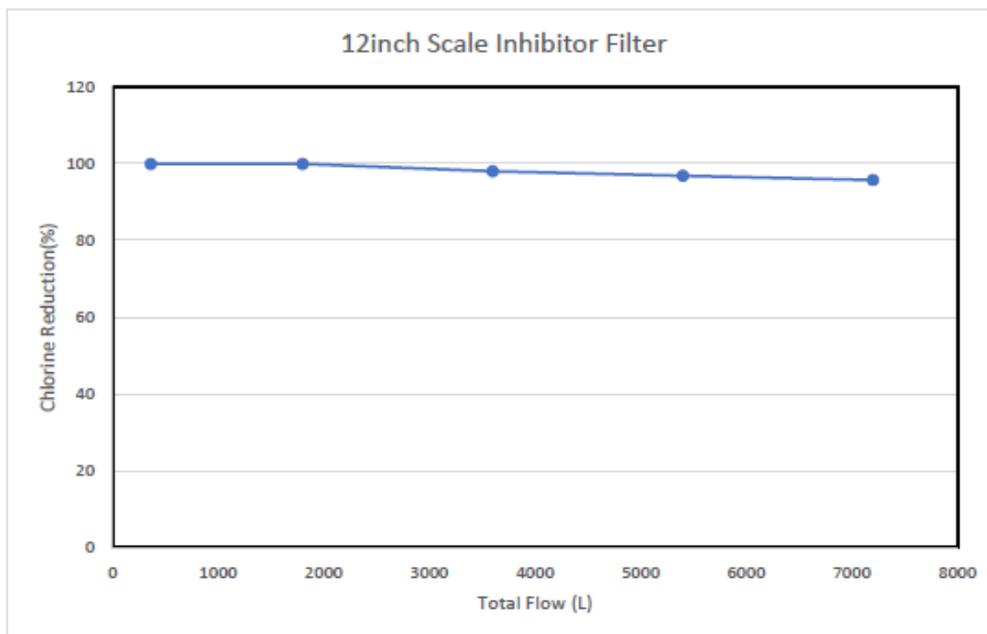
1. Sample : 12inch Scale Inhibitor Filter

2. Test Result

- Chlorine Reduction

Total Flow(L)	Chlorine Concentration(mg/L)			Reduction Mean(%)
	Influent water	Filter #1	Filter #2	
360	1.03	< 0.01	< 0.01	99.9
1,800	1.00	< 0.01	< 0.01	99.9
3,600	0.99	0.02	0.02	98.0
5,400	0.99	0.031	0.033	96.8
7,200	0.99	0.042	0.044	95.7

* Test Condition : Flow Rate = 2.0 L/min



Scale Inhibitor WDSXFK+ Filter

<Test Condition>

1. Excessive hard water preparation: 3,014Kg Calcium chloride anhydrous, 3,002Kg Magnesium Chloride Anhydrous and 0.647Kg sodium chloride are completely dissolved in 9,000 liters pure water.

The hardness of the water (calculated by Calcium carbonate) is about 480mg/L.

2. Install 20g scale inhibitor filter on the test bench, adjust inlet pressure to 0.2MPa and water flow to 2L/min. Cumulative passing 9,000 liters of excessive hard water, Take filter at 0 liter, 1,000 liters, 3,000 liters, 5,000 liters, 7,000 liters and 9,000 liters to test the scale inhibition effect and rate at a flow rate of 2L/min.

3. To boil the water sample by electric stove for 5 minutes then stop heating. Filter the heated water sample by filter paper, then test the hardness value by indicator in scale inhibition rate titration.

4. Water inlet pressure is 0.2Mpa. Water flow is 2L/min.

- Test completion date : April 18, 2022

- Experimental environment : Temperature: 25℃ ; humidity: 60%

Test Results			
Scale Inhibiting Ratio			
Cumulative Volume filtered (L)	Concentration in composite sample(mg/L)		Scale Inhibiting Ratio (%)
	Challenge water	after heating and filtration	
0	483.54	9.91	97.95
1,000	479.36	14.86	96.9
3,000	482.83	19.43	95.97
5,000	483.98	25.18	94.79
7,000	481.72	28.34	94.11
9,000	482.44	63.47	86.84