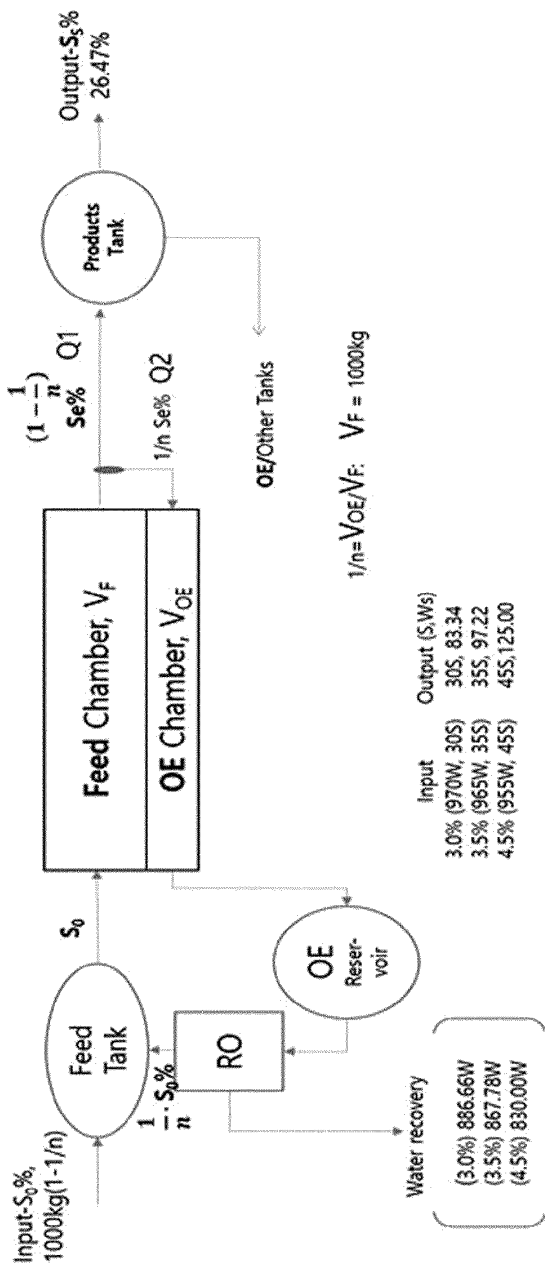
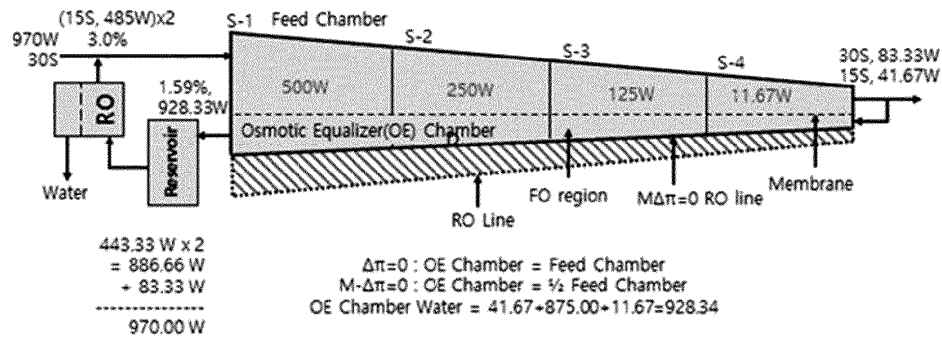


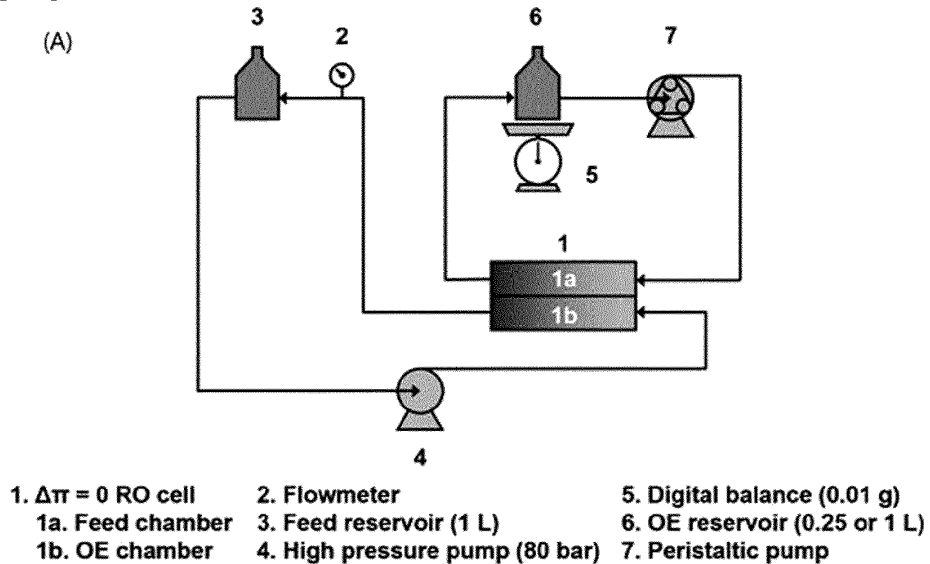
[51]



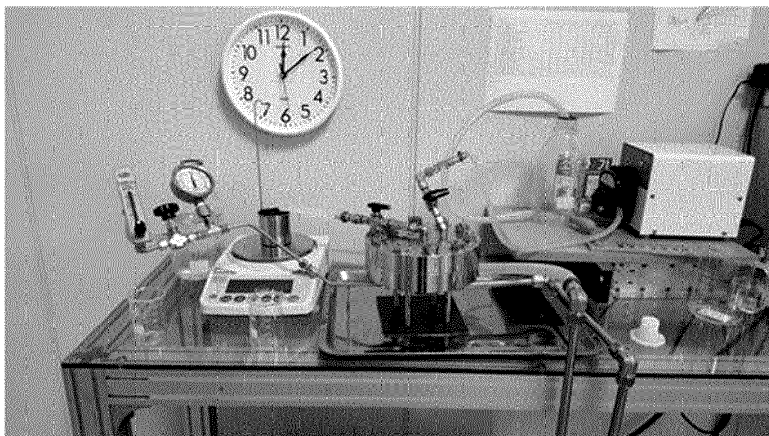
[도2]

M- $\Delta\pi$ =RO System

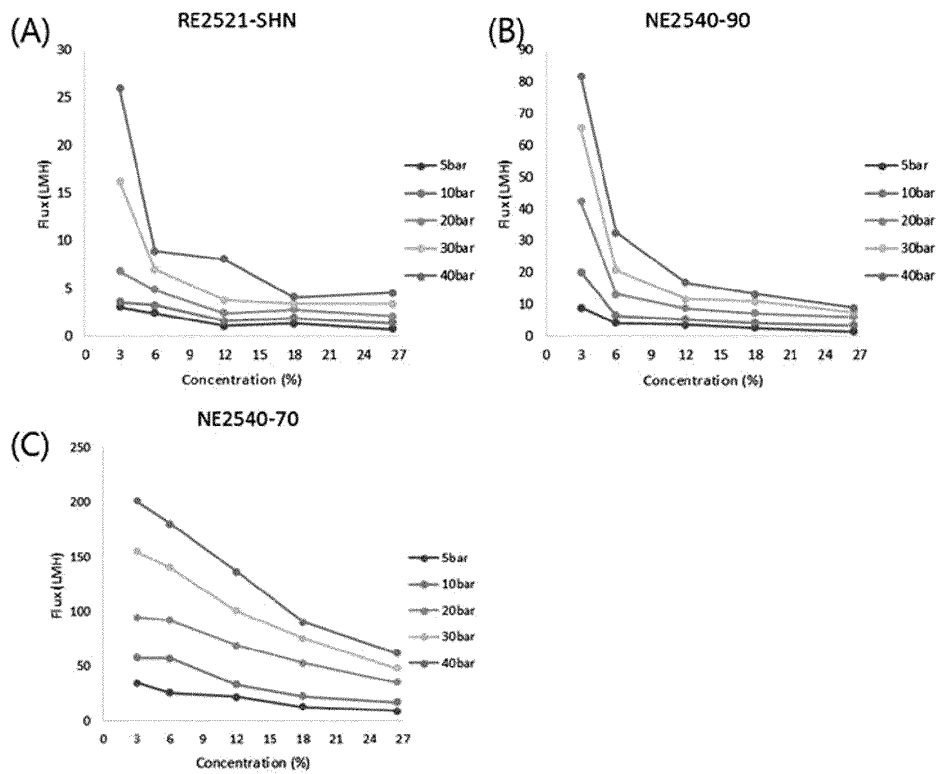
[도3]



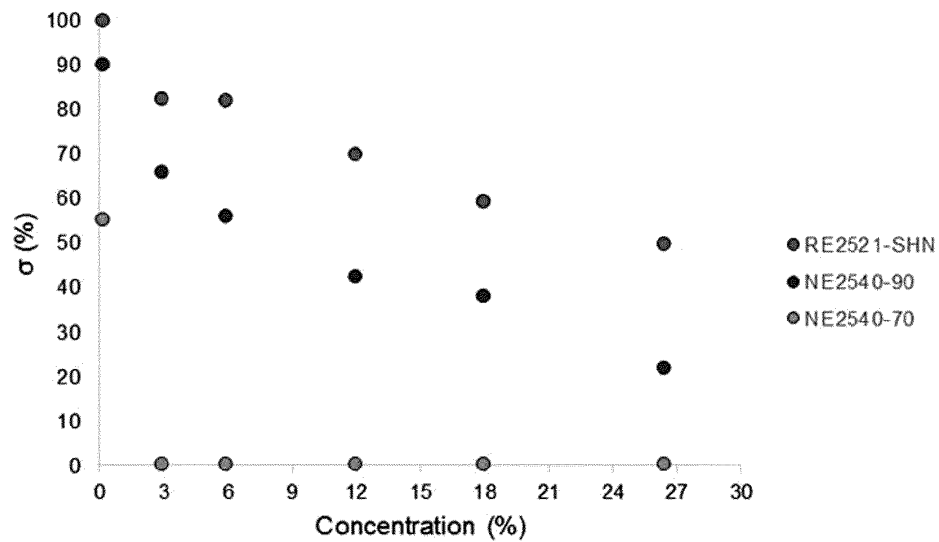
(B)



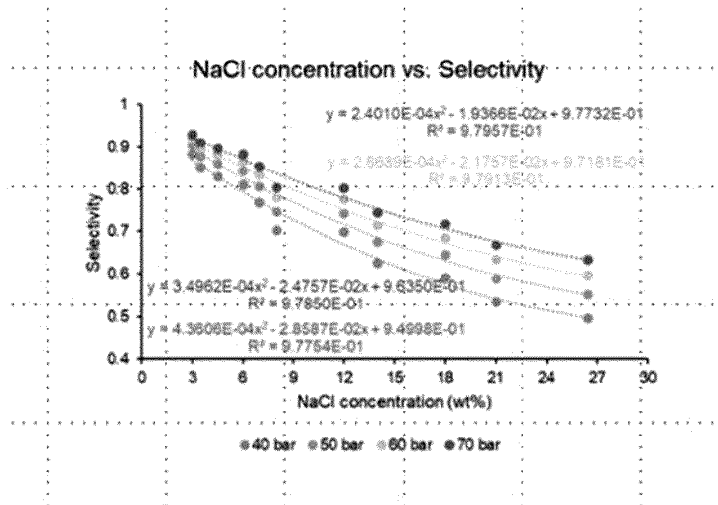
[도4]



[도5]

Rejection Coefficient (σ), 40 bar

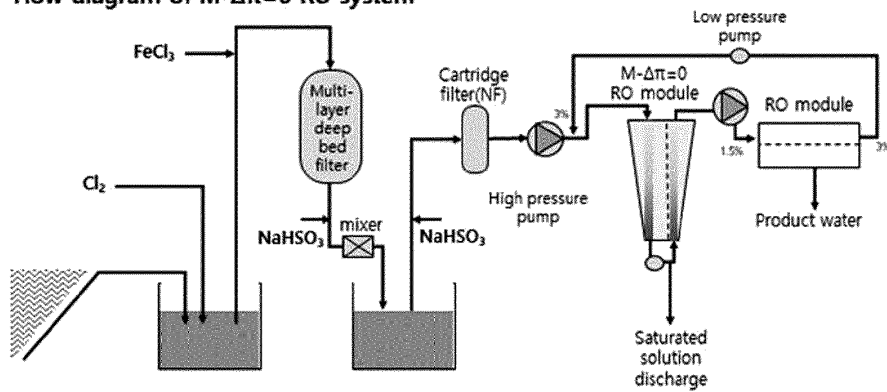
[도6]



[도7]

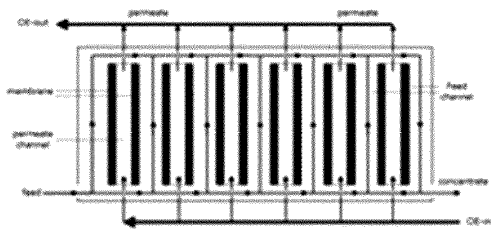
Δπ=0 Reverse Osmosis : flux and residence time 02.28-2020									
#EXP		ΔP-Δπ	ΔP	Δπ	OE-velocity	x1	x2	x3	π
1	1% Δπ=0	40	40		Q-m/Θc	0.468	0.721	1.093	7.609
					RM	1.000	1.558	2.296	
2	2% Δπ=0	40	40			0.159	0.215	0.579	15.518
						1.000	1.347	3.634	
3	3% RO ?	16.258	40	23.742		0.168	0.114	0.308	
						1.000	0.682	1.839	
4	3% Δπ=0	40	40			0.121	0.272	0.695	23.742
						1.000	2.251	5.756	
5	3-1.5% RO	28.437	40	11.563		0.096	0.234	0.695	23.742
						1.000	0.412	7.213	
6	6-3% RO	16.258	40	23.742		0.050	0.017	0.093	50.467
						1.000	0.335	1.878	
7	6% RO	16.258	40	23.742					50.467
8	6% Δπ=0	70	70			0.194	0.417	0.802	50.647
						1.000	2.152	4.134	
9	9-6% RO	-10.467	40	50.467		0.022	0.046	0.073	80.61
						1.000	2.052	3.240	
10	9% Δπ=0	70	70			0.041	0.204	0.550	80.601
						1.000	4.985	13.435	
11	9-6% RO	19.533	70	50.467		0.007	0.203	1.916	
						1.000	2.898	9.625	

[도8]

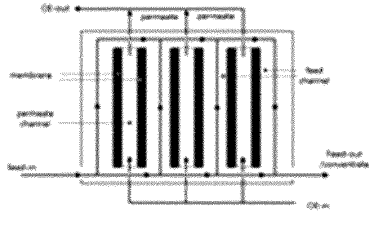
Flow diagram of M- $\Delta\pi=0$ RO system

[도9]

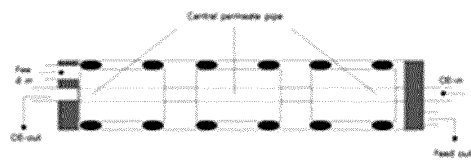
1. plate-and-frame module (6 modules)



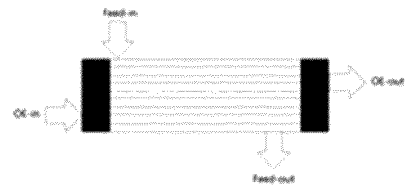
1. plate-and-frame module (3 modules)



2. Spiral-wound module in series

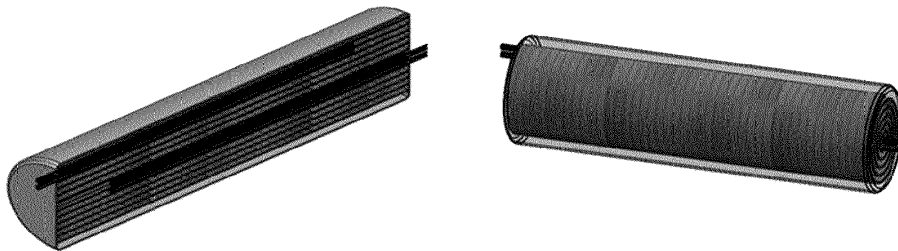


3. Hollow Fiber module



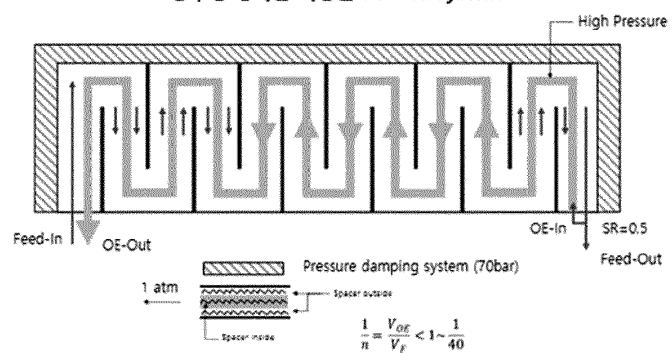
[도 10]

(A)



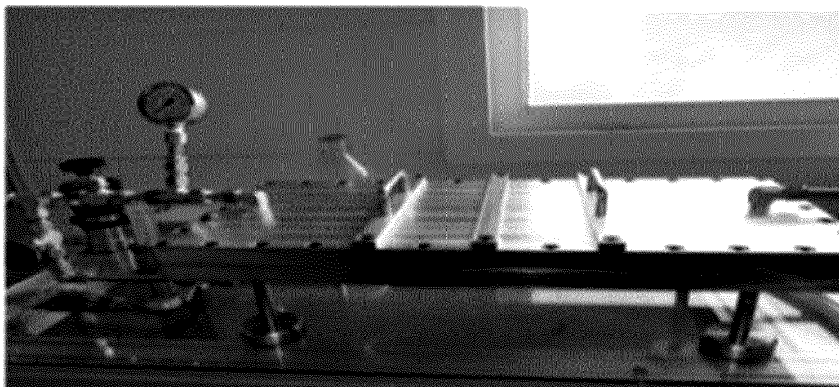
(B)

봉투형 평막을 이용한 FOS-CC System



[도11]

(A)



(B)

