

(Reverse Osmosis & Up Water System)
- CHEM - ()



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Reverse Osmosis & UP Water System

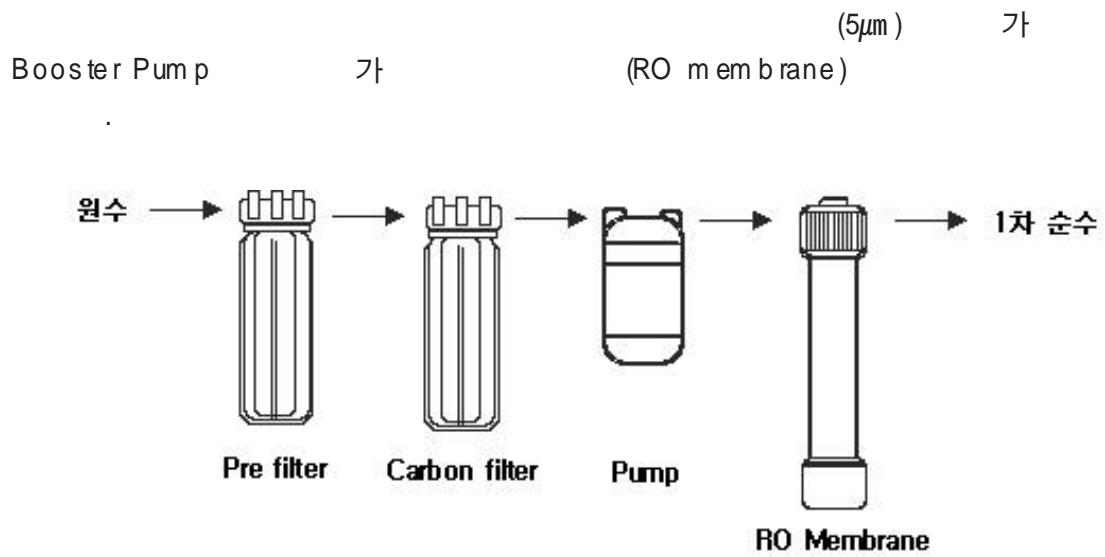
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1-1.

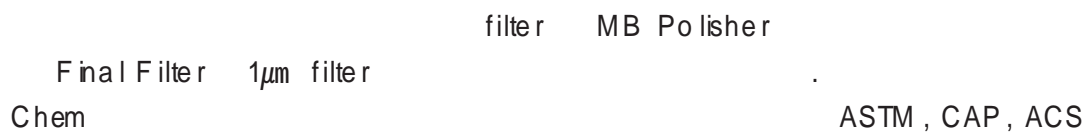
Chem Series

Chem Series

1)



2)



(a)	(1)	(2)	(3) R.O
(b)	(1) R.O.	(2)	(3)
(c)	(1) Membrane	(2) R.O.	(3)
(d)	(1) Membrane	(2) R.O.	(3) (4) UV

< 1-1.

>

Reverse Osmosis & UP Water System

						AP /ASTM
(CaCO ₃ .ppm)	170	0.3	0.1-0.05	0.025	20	-
(MΩ - cm , 25)	0.003	2	5-10	18	0.1-0.2	0.1-1.0
(ppm)	1	0.05	<0.01	<0.01	0.1	<0.01
(ppm)	1	0.05	<0.01	<0.01	0.1	<0.01
(ppm)	12	<1	<10	<1	<1	-
(ppm)	>100	<10	>100	*	<10	-
(>5µm /m l)	>10,000	<100	<100	*	<10	-

< 1-2. >

		Conductivity
PURE RO	0 - 0.04 Megohm - cm	0 - 25 µmhos/cm
PURE CHEM	1 - 8 Megohm - cm	1 - 0.125 µmhos/cm
	0.1 - 1.0 Megohm - cm	10 - 1 µmhos/cm
	10 - 18.3 Megohm - cm	0.1 - 0.05 µmhos/cm
(Power)	10 Megohm - cm	

< 1-3. CAP¹¹, ASTM¹² >

- * CAP : The College of American Pathologists
- ASTM : American Society for Testing and Materials

1-2. Chem Series

Model			Size
Chem plus ()	50 /Hr	Type I	500 x 500 x 1000
Chem III ()	50 /Hr	Type I	600 x 500 x 1200
Chem 1000P	100 /Hr	Type I	600 x 500 x 1200
Chem 2000P	200 /Hr	Type I	600 x 500 x 1400

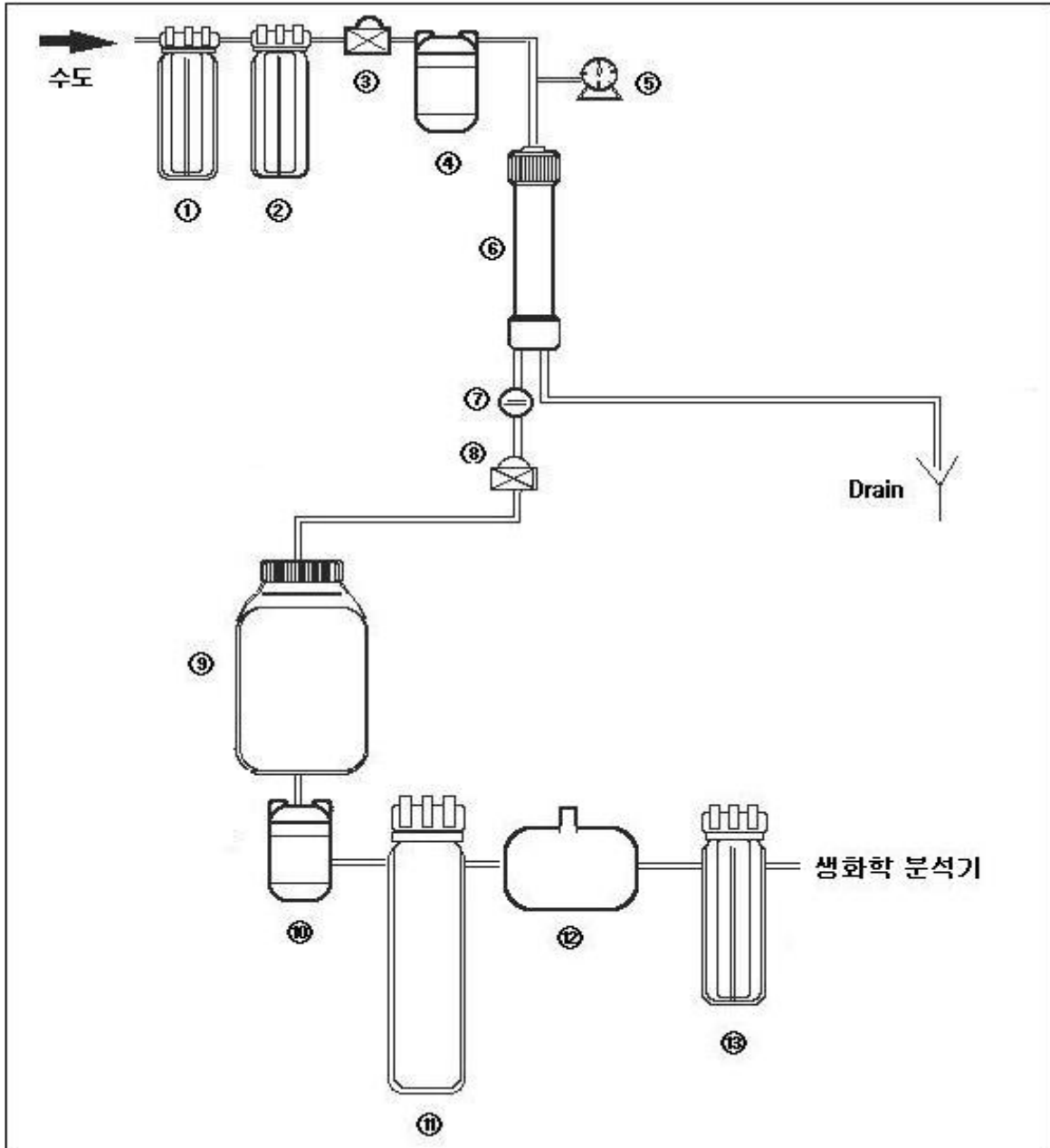
< . 1-4. Chem Series >

1-3. Chem Series

1. (Inorganics) : 99.9%
2. (Organics) : 100 99.9%
3. Total Organic Carbon (T.O.C) : 50ppb
4. (Bacteria) : 99.9%
5. (25) : 50 ~ 200
6. : 220V/60Hz

Reverse Osmosis & UP Water System

1-4. Chem System (P & D)



< 1-1. Chem System >

(Pre filter)

(Solenoid valve)

(Pressure gauge)

(Conductivity Cell)

(Water tank) (Option)

Polymer (Resin)

Final filter (1 μ m)

(Carbon filter)

(Booster pump)

(RO Membrane filter)

(Solenoid valve)

3Way

Pump

Reverse Osmosis & UP Water System

1-5.

No.		
1	Pre filter ()	HP1001
2	Carbon filter ()	HC1002
3	RO Membrane ()	HR1002
4	RES N	SBR1004
5	MB Polisher	UPW 10L
6	UV Lamp (Option)	HV1006
7	UF Filter (Option)	HU1007
8	Drain Valve ()	HD1008
9	Booster Pump ()	HB1009
10	Solenoid Valve ()	HS1010
11	Pressure Tank	HW 1011
12	Control Board & Monitoring	HM1012
13	Pressure Gauge	HG 1013
14	Level Sensor	HL1014
15		HG 1015

< 1-6. Chem >

2

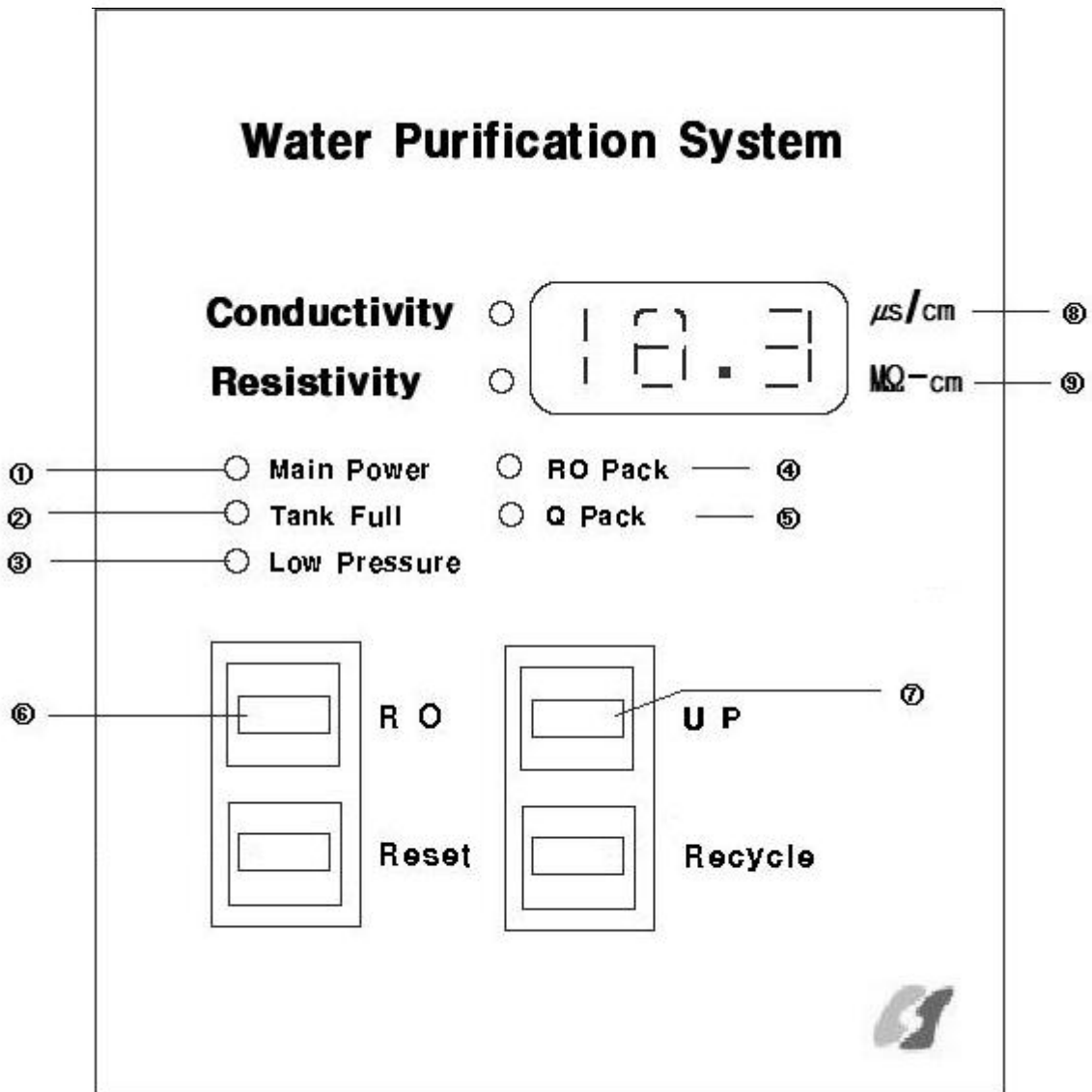
2-1.

1. RO Pack (RO Membrane)
 : RO Membrane 150 ~ 200 μ s/cm , RO Membrane
 RO pack 0 ~ 35 μ s/cm , RO Membrane 35 μ s/cm 가
2. Tank full ()
 : 가 Tank full
 Tank full
3. Low pressure (- Option)
 : 가
4. RO Membrane Setting
 : 가 RO Membrane
5. Q-Pack (Resin)
 : 10M Ω -cm ~ 18.3M Ω -cm . 10M Ω -cm 가
 Q-pack Resin
6. Q-Pack Setting (Option)
 : 가 Resin
7. _____
 : 가 가 , RO , UP OFF 6

2-2.

1. Power
- 2.
3. RO
4. ()
5. (1)
 - : 0 ~ 35 μ s/cm
6. UP Switch (3)
 - 1 가 Resin 1 μ m filter 3 가
 - : 3 ~ 18.3M Ω -cm

2-3.



< 3-1. >

- 가
- RO Mem b rane (35μs /cm)
- Res in (3MΩ - cm)
- 1
- 3
- 1 . (: 0 ~ 35μs /cm)
- 3 . (: 10 ~ 18.3MΩ - cm)

3

3-1.

Pre filter	, ,	
Carbon filter	,	Pre filter 2 1
RO Membrane	, , 90%	1 ~ 2 가
Resin	, ,	2 ~ 3 가 , 3M - cm
UV Lamp	()	
UF Filter	Pyrogen, ()	
1 μ m filter		Resin

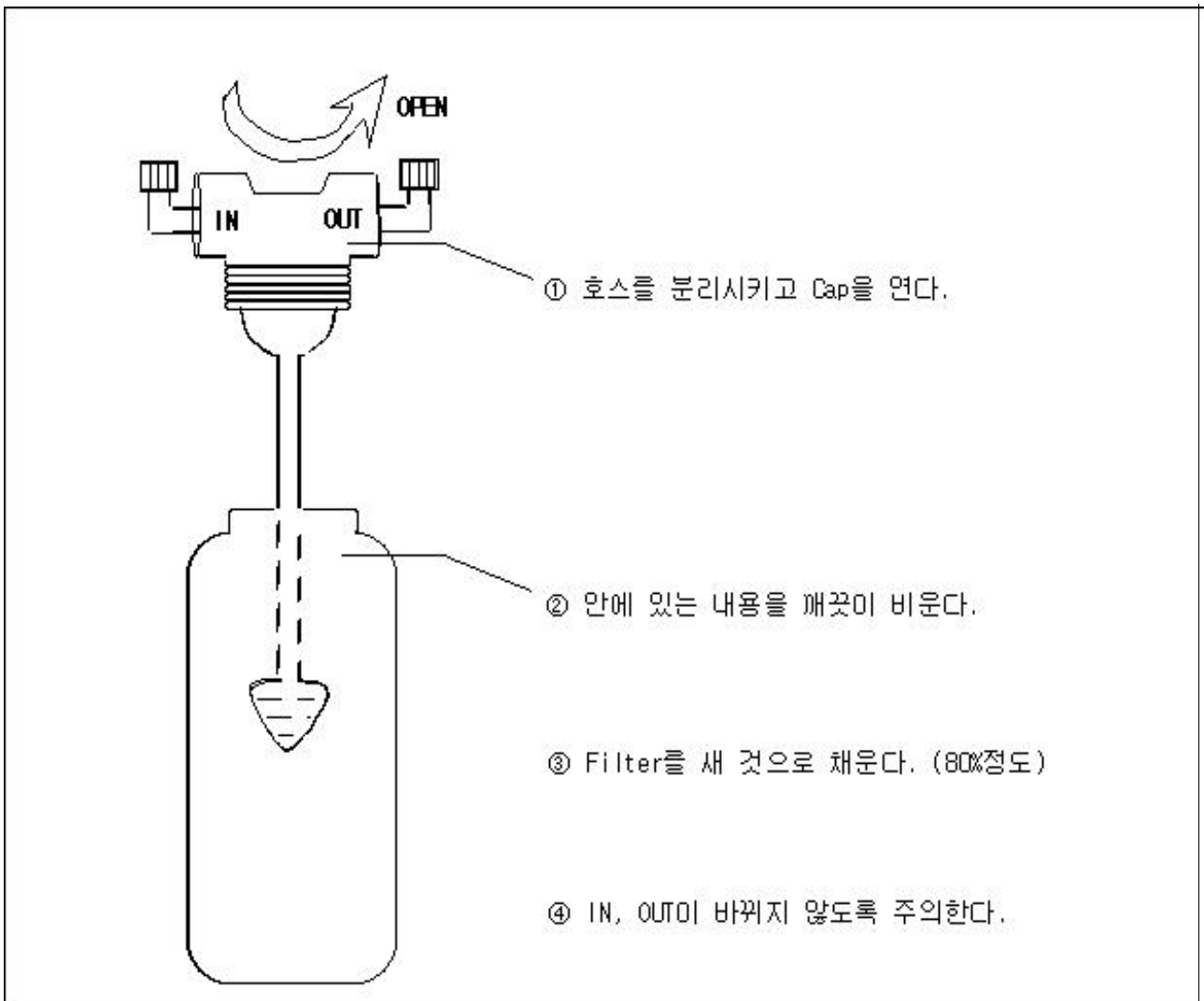
3-2.

;

가 ()
가 . RO 0 .



<그림 4-1. 프리필터 및 카본필터 교환방법>



<4-2. Resin >

Reverse Osmosis & UP Water System

* Resin

1. Tank
2. UP OFF
- 3.

3-3.

(1)	- RO (0~ 35 μ s /cm) -	- 35 μ s /cm RO Mem b rane - D ra in va lve
(1)	- () - Pum p	- - Pum p
가	- () - Pum p	- - Pum p
	- Power - Control Board -	- - -
RO Pack	- 가 0 () 가	- 35 μ s /cm RO Mem b rane
	- - (35 :65)	- 가 - D ra in Va lve
	-	- D ra in Va lve
Q -Pack	- (3M Ω - cm)	- Resin

고객 등록 카드

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