

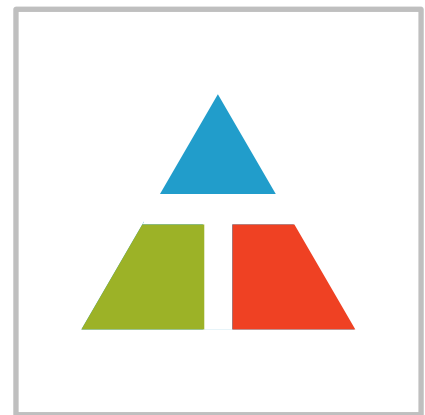
Samyang TriAngle™ Calculation Software Operating Manual for Water Treatment Engineers

Design your Water Treatment System
With TRILITE Ion Exchange Resins

1. Samyang TriAngle

TriAngle is an ion exchange resin system design program developed by Samyang Corporation.

Samyang TriAngle means Samyang Corporation's ion exchange resin brand; TRILITE® and ion exchange resin system components; ion exchange resin, equipment and operation.






Samyang TriAngle

2. Samyang TriAngle Administrator

Samyang TriAngle administrator is ion exchange resin sales team at Samyang Corporation. Any inquiry on Samyang TriAngle, please contact the administrator via e-mail. Administrator's e-mail address is triangle@samyang.com

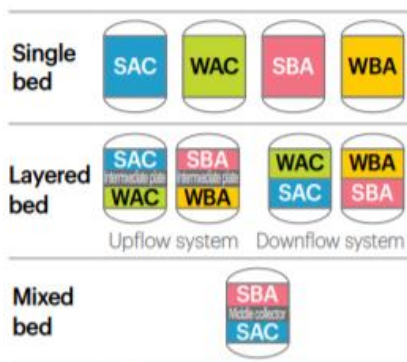
1. Samyang Corporation's Ion exchange Resin

Particle Size, Distribution, Uniformity Coefficient

• Gaussian - Particle Size : 0.3 ~ 1.2mm - Uniformity Coefficient : 1.6 ↓ 	• Gaussian L-type (L) - Particle Size : 0.425 ~ 1.2mm - Uniformity Coefficient : 1.4 ↓ 	• UPS* - Particle Size : 0.5 ~ 0.7mm - Uniformity Coefficient : 1.1 ↓ 
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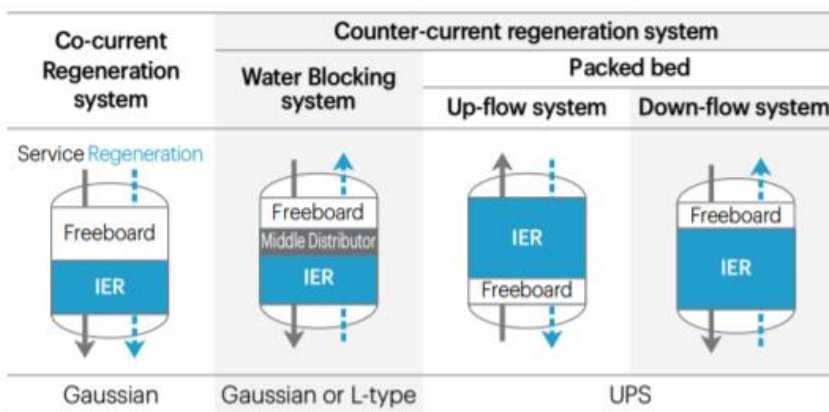
※ UPS : Uniform Particle Sized

Classification by IER layer



※ SAC : Strongly Acidic Cation Resin
 WAC : Weakly Acidic Cation Resin
 SBA : Strongly Basic Anion Resin
 WBA : Weakly Basic Anion Resin



Classification by regeneration system





※ IER : Ion Exchange Resin

TRILITE Water treatment product lines




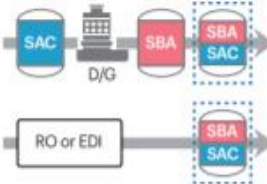

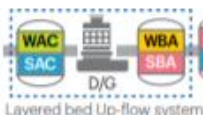
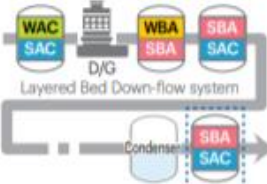
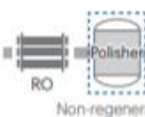
Product line	Origin	U.C (Uniformity coefficient)	Grade	Remarks
Premium	Samyang Fine Technology	1.1↓	• Power plant - Nuclear grade - Condensate polishing	Premium grades produced in UPS resin specialized factory, extremely even uniformity, impurities minimized resins. High performance for premium water treatment.
	Samyang Corp Ulsan plant		• Ultrapure water - Make-up & final polisher in semiconductor and OLED/ LCD, etc	
Performance	Samyang Fine Technology	1.1↓	• Power plant - Condensate polishing - Pretreatment Make-up • Large-scaled industrial water treatment - Petrochemicals, foods, electronics, etc	Produced in UPS resin specialized factory, extremely even uniformity and excellent physical, chemical strengths. High performance and long-term use
Basic	OEM	1.1↓ ~ 1.6↓	• General water treatment - Softening (industrial, domestics, foods) - Demineralization	Produced under Samyang's strict quality control and technical guidance. Highly reliable quality and economical results.

	Type	Strongly acidic cation resins (SAC)			Strongly basic anion resins (SBA)			
		Grade	TEC (eq/ℓ)	Particle Distribution	Type	Grade	TEC (eq/ℓ)	Particle Distribution
Premium		MC-10S	2.2↑	0.60-0.70mm		MA-10S	1.35↑	0.50-0.60mm
		MC-10SH	2.0↑	0.61-0.71mm		MA-10SOH	1.1↑	0.54-0.64mm
Performance	UPS Gel 	MC-08	2.0↑	0.55-0.65mm	Type1	MA-12	1.3↑	0.53-0.63mm
		MC-08H	1.8↑	0.57-0.67mm		MA-12OH	1.1↑	0.57-0.67mm
		MC-10	2.2↑	0.60-0.70mm		MA-10	1.35↑	0.50-0.60mm
		MC-10H	2.0↑	0.61-0.71mm		MA-10OH	1.1↑	0.54-0.64mm
		MC-14M	2.5↑	0.50-0.60mm		MA-15	1.4↑	0.55-0.65mm
		MC-14MH	2.4↑			MA-15OH	1.2↑	0.58-0.68mm
					Type2	MA-20	1.3↑	0.53-0.63mm
Basic	Gaussian Gel 	UKC-08	2.0↑	0.55-0.65mm	Type1	UKA-12	1.3↑	0.55-0.65mm
		UKC-10	2.2↑	0.60-0.70mm				
		UKC-12	2.3↑	0.60-0.70mm				
		SCR-B(L)	2.0↑	0.3-1.2mm (L-type) 0.425-1.2mm	Type1	SAR10(MB)	1.3↑	0.3-1.2mm (L-type)
						SAR12	1.3↑	0.425-1.2mm (MB) for mixed bed
					Type2	SAR20(MB)	1.3↑	
		KC-07	1.9↑	0.3-1.2mm	Type1	KA-10(MB)	1.3↑	0.3-1.2mm (MB) for mixed bed
		KH-70	1.9↑			KA-12	1.3↑	
		KC-08	2.0↑		Type2	KA-20(MB)	1.3↑	
		KH-80	2.0↑					
Functional group		(Polystyrene+DVB) + Sulfonate			(Polystyrene+DVB) + Type1 : TMA, trimethylamine, Type2 : DMEA, dimethylethanolamine			
Type		Weakly acidic cation resins (WAC)			Weakly basic anion resins (WBA)			
Premium					UPS Porous	AW90	1.6↑	0.50-0.60mm
Performance	Gaussian Porous	WCA10L	4.2↑	0.425-1.2mm		AW80	1.5↑	0.40-0.60mm
Basic					Gaussian Porous	AW30	1.5↑	0.425-1.2mm
Functional group		(Polystyrene+DVB) + Carboxylic Acid			(Polystyrene+DVB) + Tertiary Amine			

Softening

Softening		Product Line	SAC	SBA	WAC	WBA
Softening (Industrial grade)		Performance	MC-08 MC-10			
		Basic	UKC-08, UKC-10 UKC-12, SCR-B KC-07, KC-08			
Softening (Food grade)		Basic	KH-70 KH-80			

Demineralization

Demineralization system		Treated water quality	Product Line	SAC	SBA	WAC	WBA
2B2T (2Bed 2Tower) Cation Exchanger + Anion Exchanger		1-2 $\mu\text{S}/\text{cm}$ \downarrow SiO_2 20-100ppb \downarrow	Performance	MC-08 MC-10	MA-12 MA-20		
			Basic	SCR-B UKC-08 UKC-10 KC-08	SAR10 SAR20 UKA-12 KA-12 KA-20		
2B3T Cation Exchanger + Degasifier + Anion Exchanger		1 $\mu\text{S}/\text{cm}$ \downarrow SiO_2 100ppb \downarrow	Performance	MC-08	MA-20		
			Basic	SCR-B	SAR20MB		
Working MB (Mixed Bed)		1 $\mu\text{S}/\text{cm}$ \downarrow SiO_2 100ppb \downarrow	Performance	MC-08	MA-20		
			Basic	SCR-B	SAR20MB		
2B2T or 2B3T or RO or EDI + MBP (Mixed Bed Polisher)		0.1 $\mu\text{S}/\text{cm}$ \downarrow SiO_2 5-10ppb \downarrow	Premium	MC-10S	MA-10S		
			Performance	MC-08 MC-10	MA-10		
			Basic	SCR-B	SAR10MB KA-10MB		
3B3T +MBP		10-17 $\text{M}\Omega\text{-cm}$ \uparrow SiO_2 5-10ppb \downarrow	Performance	MC-08 MC-10	MA-12 MA-10		AW90 AW80
			Basic	SCR-B UKC-08 UKC-10	SAR10MB UKA-12		AW30
4B3T +MBP		10-17 $\text{M}\Omega\text{-cm}$ \uparrow SiO_2 5-10ppb \downarrow	Performance	MC-08 MC-10	KA18LB	WCA10L	AW90 AW80
			Basic	SCR-B UKC-08 UKC-10			AW30
4B3T +MBP +CPP (Condensate Polisher)		0.1 $\mu\text{S}/\text{cm}$ \downarrow SiO_2 10ppb \downarrow	Premium	MC-10SH	MA-10SOH		
			Performance	MC-10H	MA-10OH MA-15OH		
RO (Reverse Osmosis) + Polisher (Polishing Resin)		15-18 $\text{M}\Omega\text{-cm}$ \uparrow SiO_2 5-10ppb \downarrow	Premium	UPRM100U, UPRM200U, UPRM300U			
			Performance	SM210, SM300			
			Basic	SM200			

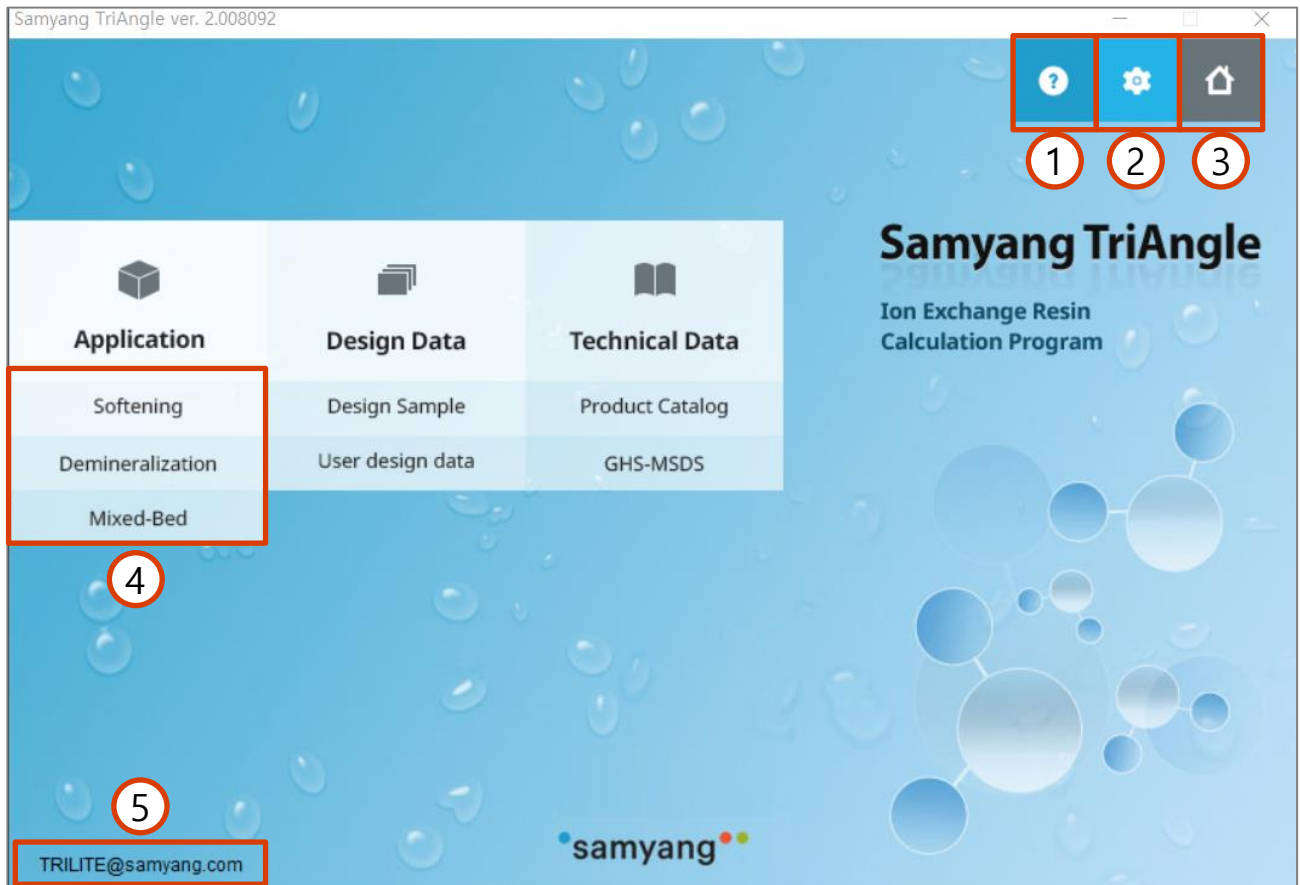
2. Types of water treatment systems

Samyang TriAngle contains the below options for system design.

Options	Feature
Conventional(co-current)	<ul style="list-style-type: none">• Poor regeneration efficiency• Requires free board for backwashing• Recommended for conventional resins
Conventional(count-current)	<ul style="list-style-type: none">• Good regeneration efficiency• More complicated operation compared to Co-current• Recommended for conventional resins
Packed-bed(up-flow)	<ul style="list-style-type: none">• Excellent regeneration efficiency• Require separate backwashing tower• Recommended for UPS resins
Packed-bed(down-flow)	<ul style="list-style-type: none">• Excellent regeneration efficiency• Simple operation• Recommend for UPS resins.

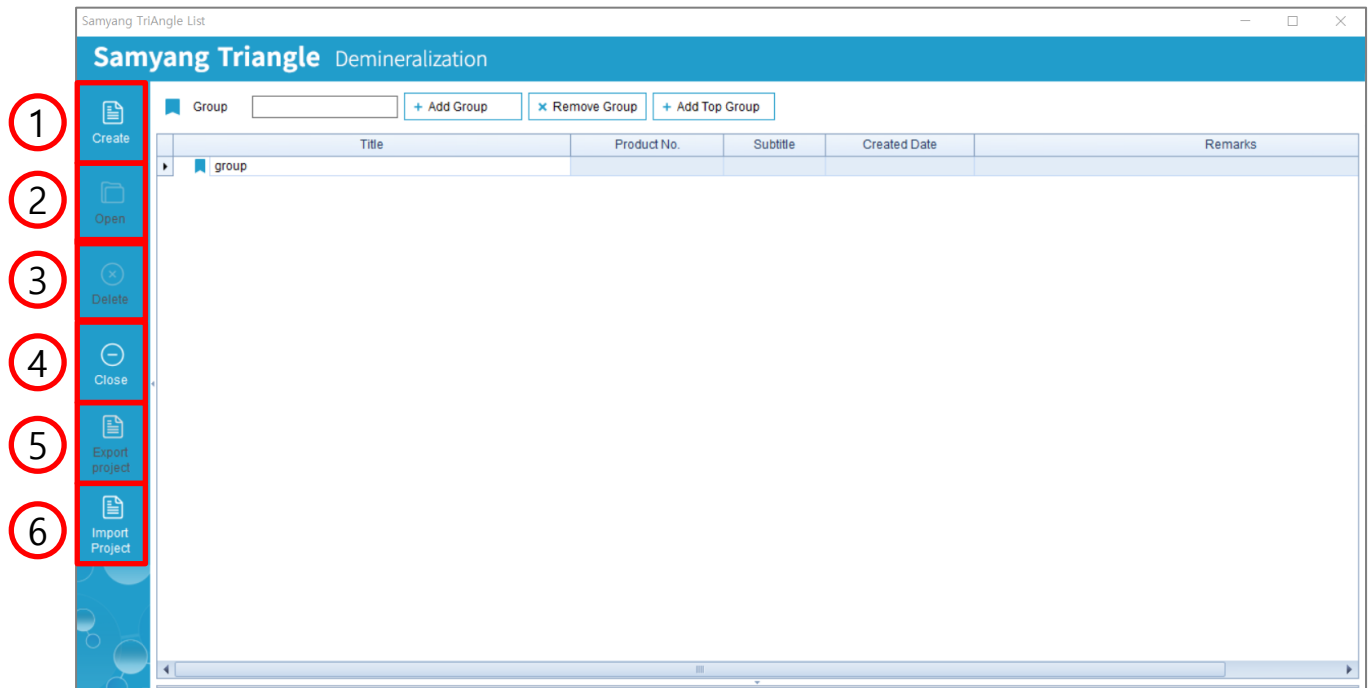
II. System Function

1. Design Program Main Screen



- ① The user's guide will be running.
- ② The preferences window will be activated. You can change the language to Korean, English and Chinese.
- ③ Go to Samyang Corporation's ion exchange resin website.
- ④ Go to each type of system design screen.
- ⑤ Send an e-mail to TriAngle administrator.

2. System Design Menu



- ① Creates a new design.
- ② Opens an previously saved design.
- ③ Deletes designs previously saved.
- ④ Close the menu and move to the main screen.
- ⑤ Exports the design and saves it for data transfer.
- ⑥ Imports the design saved from other TriAngle program.

3. System Design_General data

Samyang Triangle Demineralization

General data | Raw water condition | Ion exchange resin | Regenerant selection | Tower design | Regeneration process

① Navigation arrows

② Save

③ Save as

④ Export

⑤ Close

⑥ MIN / MAX

⑦ General data section

Project description

Project No: SYC-AVC-1H02 | Date: 2021-08-15

Project title: Triangle Caculation Exampe

Project subtitle: 2B3T_MBP Demi. system

Remarks: Condensated water Recycle Process

Customer

Company: Samyang corp.

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Name: Yeochan Ahn | Mail: yeochan.ahn@samyang.com

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Designer

Company: Samyang corp.

Address: 31, Jongno 33-gil, Jongno-gu Seoul

Name: Yeochan Ahn | Mail: yeochan.ahn@samyang.com

Phone: +82 10 2714 0756 | Fax: +82 2 740 7790

- ① Move to the next or previous design stage.
- ② Save the design as per the Project title.
- ③ Save the design as per the required title.
- ④ Exports the design into pdf file.
- ⑤ Close the system design.
- ⑥ Shows the minimum and maximum values for the data.
- ⑦ General data of the design.

※ Remarks

Project title ✖

When the required information is not entered, it displays ✖ and it cannot move to the next screen.

4. System Design_Raw water conditions

- ① Different raw water condition can be added.
- ② Set the source flow rate and expected cycle time*
- ③ Select water sources and country.
- ④ When data is not available, raw water can be set based on the TDS / Conductivity values. Then, Na and Cl ions will be considered for balance.

※ Remarks

- White(□): To be filled by user.
- Grey(■): To be returned by program.
- Sky blue(■): Input value is off the minimum value of system.
- Orange(■): Input value is off the maximum value of system.

[WARNING] The red value above is out of the recommended range. Please refer to the MIN and MAX range on the bottom left.

- Clicking the warning icon pops up the cause of error.

4. System Design_Raw water conditions

The screenshot shows the 'Raw water conditions' input screen. It includes fields for Cations (Na, Ca, Mg, K, Sr, Ba, NH4, Fe(II), Mn), Anions (Cl, SO4, CO3, HCO3, NO3, F, SiO2, B, PO4), and a summary section with Total Cation, Total Anion, New Total Cation, and New Total Anion. The 'Others' section includes Temperature, pH, CO2, Turbidity, SDI, TSS, TOC, Fe(Total), Free Chlorine, and H2S. The bottom section includes TDS and Conductivity. A checkbox for 'Automatic balancing' is at the bottom left.

Annotations on the screenshot:

- ①: Points to the 'Unit' dropdown menu for Na, which is currently set to 'meq/l'.
- ②: Points to the 'Original' value for Na, which is 0.31900.
- ③: Points to the 'Others' section, specifically the 'Calculate CO2' checkbox.
- ④: Points to the 'TDS' and 'Conductivity' fields.
- ⑤: Points to the 'Automatic balancing' checkbox.

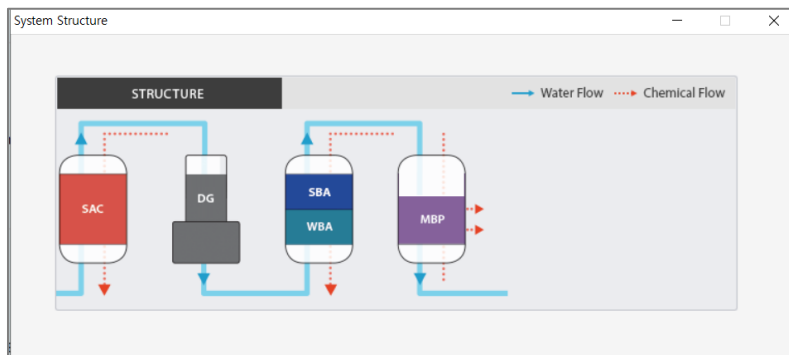
- ① Choose the unit of analysis result. Clicking the refresh button matches the units for other ions.
- ② Enter the analysis results.
- ③ Enter other conditions.
- ④ When analysis result is not available, set the condition with TDS and Conductivity value. Then, Na and Cl ions will be considered for balance.
- ⑤ Automatically balance the cation and anion values.

4. System Design_Ion Exchange Resin

The screenshot shows the 'Ion exchange resin' tab of a design software. It is divided into several sections:

- Process selection (1):** Includes Cation (SAC, WAC + SAC, WAC - SAC, WAC / SAC), Anion (SBA, WBA + SBA, WBA - SBA, WBA / SBA), and MBP (Mixed-bed polisher) options. A 'Packed-bed(up-flow)' dropdown is also present.
- Resin selection (2):** Includes Cation (Uniform, Ununiform, Uniform + Ununiform) and Anion (Uniform, Ununiform) options.
- Regenerant selection (3):** Includes WAC, SAC (TRILITE MC-08), Inert resins (TR70), WBA (TRILITE AW80), SBA (TRILITE MA-12), Inert resins (TR70), SAC (TRILITE MC-10), and SBA (TRILITE MA-10) with associated safety factors.
- End point (4):** Includes Permissible limit settings for Conductivity and Silica for both the post-Anion tower and MBP.
- START button (5):** A blue button with a play icon to start the design process.

- ① Select the designing process.
SAC : Strong Acid Cation, SBA : Strong Base Anion
WAC : Weak Acid Cation, WBA : Weak Base Anion
MBP : Mixed-bed polisher.
- ② Select the resin types between UPS and Ununiform.
Packed-bed system offers the design with UPS resins.
- ③ Choose the resin and set the safety factor for design.
- ④ Check the permissible limits for post-Anion tower and MBP.
- ⑤ START button demonstrates the designed process.



4. System Design_Regenerant selection

The screenshot shows the 'Regenerant selection' tab with the following configuration:

Resin Type	Regenerant Selection	Regeneration Level [g/l]	Chemical Concentration as Supplied [%]	Concentration in WAC [%]	Chemical Injection Concentration [%]	1st step [%]	2nd step [%]	Rate [%]	Temperature(Regenerant) [°C]	Rinse water consumption [BV]
Cation	HCl	55.00	35.0			3.0		100.0	35.0	Slow rinse: 2.0, Fast rinse: 3.0
Anion	NaOH	85.00	50.0			3.0			35.0	Slow rinse: 3.0, Fast rinse: 3.0
MBP	HCl	100.0	35.0			5.0			50.0	Slow rinse: 3.0, Fast rinse: 3.0
	NaOH	104.0	50.0			4.0			50.0	Slow rinse: 3.0, Fast rinse: 3.0

- ① Select the each regenerant, regeneration level and concentration.
 - Different regeneration level sets the required resin volume.
 - Different concentration changes the time for regeneration.
- ② Set the injecting concentration and rinse time for cation resin.
 - H_2SO_4 regeneration might require multi step regeneration.
- ③ Set the injecting concentration and rinse time for anion resin.
 - Regeneration temperature might change the regeneration efficiency.
- ④ Set the injecting concentration and rinse time for mixed bed resins.

4. System Design_Tower design

General data Raw water condition Ion exchange resin Regenerant selection **Tower design** Regeneration process

4 IonExchgCalc IonTower Design

	1 Cation	2 Anion	3 MBP
Process	Packed-bed(up-flow)	Packed-bed(up-flow)	
Component	SAC	WBA SBA	SAC SBA
Resin type	TRILITE MC-08	TRILITE AW90 TRILITE MA-12	TRILITE MC-10 TRILITE MA-10
Ionic load [meq/l]	2.58	3.30 1.35	0.01 0.01
Ionic load per cycle [eq]	8956.73	11597.85 4744.58	259.56 259.56
Ion exchange resin volume(as delivered) [liter]	8675.00	10150.00 5075.00	1500.00 1500.00
Operation capacity [eq/l]	1.03	1.14 0.93	0.03 0.05
Installed capacity [eq]	9421.05	12180.00 5227.25	1800.00 1800.00
Specific flow rate [l/hr]	18.19	15.55 31.09	50.00
Diameter [mm]	2190.00	2730.00 2730.00	1950.00
Thickness of rubber lining [mm]	3.00	3.00 3.00	3.00
Area [m ²]	3.75	5.83 5.83	2.97
Linear velocity [m/hr]	42.08	27.07 27.07	53.13
Bed depth(as delivered) [mm]	2313.33	1740.99 870.50	505.05 505.05
Inert Resin Volume [liter]	750.00	600.00 1175.00	
Cycle time [hr]	22	22 22	168

- ① Cation tower design is automatically calculated according to the given data.
 - Supplementary cation resin amount can be adjusted considering the operating capacity, SV and LV.
 - Diameter and rubber lining can be adjusted.
- ② Anion tower design is automatically calculated according to the given data.
 - Supplementary anion resin amount can be adjusted considering the operating capacity, SV and LV.
 - Diameter and rubber lining can be adjusted.
- ③ Mixed bed tower design is automatically calculated according to the given data.
 - Cycle time can be adjusted for Mixed bed.
- ④ Set the ion exchange resin quantity and tower design.

4. System Design_Tower design

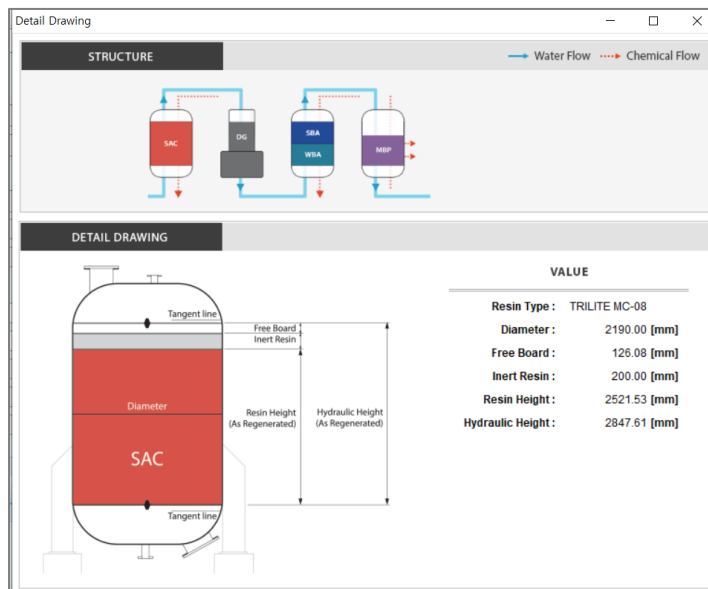
General data
Raw water condition
Ion exchange resin
Regenerant selection
Tower design
Regeneration process

1

	Cation	Anion		MBP	
Process	Packed-bed(up-flow)	Packed-bed(up-flow)			
Component	SAC	WBA	SBA	SAC	SBA
Process selection					
Resin type	TRILITE MC-08	TRILITE AW90	TRILITE MA-12	TRILITE MC-10	TRILITE MA-10
Swelling rate [%]	9.0	20.0	24.0	8.0	23.0
Resin bed depth as regenerated [mm]	2521.53	2089.19	1079.42	545.45	621.21
Filter compartment					
Bed depth(Blocking resin) [mm]	200.00	200.00	200.00		
Freeboard ratio [%]	5	5	5	100	
Hydraulic height as delivered [mm]	2639.41	2045.45	1124.47		
Hydraulic height as regenerated [mm]	2847.61	2393.65	1333.39	2333.32	
Total pressure loss [kPa]	64	46	46	42	

2
START

- Set the conditions for cation, anion and mixed-bed towers.
 - Set the appropriate depth for inert resin.
 - Set the free board and swelling volume for each resin type.
 - Set the free board if backwashing is required.
- START button shows the design image of each process and towers.



4. System Design_Regeneration process

General data | Raw water condition | Ion exchange resin | Regenerant selection | Tower design | **Regeneration process**

Regeneration data | **Cation regeneration** | Anion regeneration | MBP regeneration | Waste water

1

Gross flowrate [m³/hr] 157.80

	Cation	Anion	MBP	
	Packed-bed(up-flow)	Packed-bed(up-flow)		
Process	SAC	WBA SBA	SAC	SBA
Component	TRILITE MC-08	TRILITE AW90 TRILITE MA-12	TRILITE MC-10	TRILITE MA-10
Resin type				
Total resin volume [liters]	8675.00	10150.00 5075.00	1500.00	1500.00
Regenerant	HCl	NaOH	HCl	NaOH
Regeneration level [g/l]	55.00	85.00	100.00	104.00
Chemical concentration as supplied [%]	35.0	50.0	35.0	50.0
1. Dilution				
Chemical injection concentration [%]	3.0	3.0	5.0	4.0
Multi-stage regeneration Ratio [%]	100.0			
Chemical consumption as 100% [kg]	477.13	431.38	150.00	156.00
Chemical consumption as supplied (weight) [kg]	1363.23	862.76	428.57	312.00
Chemical consumption as supplied (volume) [liters]	1157.47	561.40	363.88	203.02
Volume as supplied [liters]	14541.12	13516.57	2571.42	3588.00

2

① Regeneration process for cation, anion and mixed-bed tower is summarized.

② Refer to more details of on regeneration waste information.

※ Cation exchange resin regeneration condition

SAC	TRILITE MC-08	Injection percent [%]	LV [m ³ /hr]	Rate [m ³ /hr]	Time [min]	Volume [m ³]	Volume [BV]
Acid injection - 1							
		3.0	8.00	30.00	31	15.70	
Acid displacement							
			7.50	28.14	37	17.35	2.0
Fast rinse							
				157.80	10	26.30	3.0
Cycle rinse							
			42.08	157.80	10	26.30	3.0
Total service water							
					91	63.82	
Total waste water							
						49.28	

※ Anion exchange resin regeneration condition

SBA	TRILITE MA-12	Injection percent [%]	LV [m ³ /hr]	Rate [m ³ /hr]	Time [min]	Volume [m ³]	Volume [BV]
Caustic injection							
		3.0	7.00	40.81	21	14.08	
Caustic displacement							
			6.62	38.62	71	45.70	3.0
Fast rinse							
				157.80	17	44.71	3.0
Cycle rinse							
			27.07	157.80	10	26.30	1.7
Total service water							
					122	109.76	
Total waste water							
						110.32	

4. System Design_Regeneration process

※ Mixed-bed tower regeneration condition

SAC	TRILITE MC-10	LV	Rate	Time	Volume	Volume
SBA	TRILITE MA-10	[m/hr]	[m ³ /hr]	[min]	[m ³]	[BV]
Backwash		10.00	29.70	20	9.90	
Settling				10		
Caustic injection		4.0	2.55	7.58	30	3.79
Caustic displacement		2.42	7.18	45	5.39	3.6
Acid injection		5.0	1.98	5.87	30	2.94
Acid displacement		1.73	5.14	45	3.86	2.6
Slow rinse(caustic)		6.06	18.00	30	9.00	6.0
Slow rinse(acid)		6.06	18.00	30	9.00	6.0
Blow-down				10	7.35	
Mixing		90.00	267.3	[Nm ³ /hr as Air]	20	
Fast rinse			59.40	15	14.85	5.0
Total service water				180	58.16	
Total waste water					66.08	

※ Regeneration waste information

Net production					
	Cation / Anion	MBP			
Net capacity [m ³]	3300.00	25200.00			
Net flow rate [m ³ /hr]	150.00	150.00			
Total waste water [m ³]					
159.60					
Waste water and neutralisation					
Cations			Anions		
	[eq]	[meq/l]		[eq]	[meq/l]
Total hardness	6930.00	43.42	Cl	6477.90	40.59
Na, K, NH ₄	1544.40	9.68	SO ₄	3808.20	23.86
Other cations	29.70	0.19	HCO ₃	7609.80	47.68
			SiO ₂	105.60	0.66
			Other anions	277.20	1.74
Regenerants					
Regenerant selection	Excess chemical load [eq]	Total [kg as 100%]	Expected pH of waste water	Required chemical for neutralization [kg as 100%]	
HCl	13062.73	477.1		58.7	
NaOH	14669.66	587.4	12.0	0.0	

5. Save & Export process

Samyang Triangle Demineralization

General data | Raw water condition | Ion exchange resin | Regenerant selection | Tower design | **Regeneration process**

Regeneration data | Cation regeneration | Anion regeneration | MBP regeneration | **Waste water**

1 Save

2 Export

3 Waste water

Selection

	Cation / Anion	MBP
Net capacity [m3]	4400.00	33600.00
Net flow rate [m3/hr]	200.00	200.00

Total waste water [m3] 207.58

Waste water and neutralization

Cations		Anions	
[mg]	[meq/l]	[mg]	[meq/l]
Total hardness	9240.00	44.51	
Na, K, NH4	2059.20	9.92	
Other cations	39.60	0.19	

Cl	8637.20	41.61
SO4	5077.60	24.46
HCO3	10146.40	46.88
SiO2	140.80	0.68
Other anions	369.60	1.78

Regenerants

Regenerant selection	Excess chemical load [mg]	Total [kg as 100%]	Expected pH of waste water	Required chemical for neutralization [kg as 100%]
HCl	17394.14	635.3		0.0
NaOH	17377.04	695.9	4.1	0.7

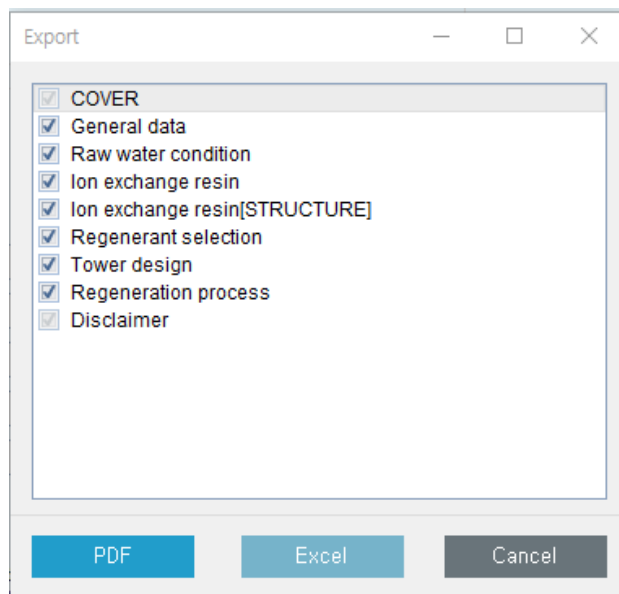
[WARNING] The red value above is out of the recommended range. Please refer to the MIN and MAX range on the bottom left.
[WARNING] The red value above is out of the recommended range. Please refer to the MIN and MAX range on the bottom left.

MIN
MAX

- ① Save the design file before closing.
- ② Export the design into PDF file.
- ③ Save the file at the Waste water menu.
Otherwise, the file is saved at the last design panel without saving the next steps.

Regeneration data	Cation regeneration	Anion regeneration	MBP regeneration	Waste water
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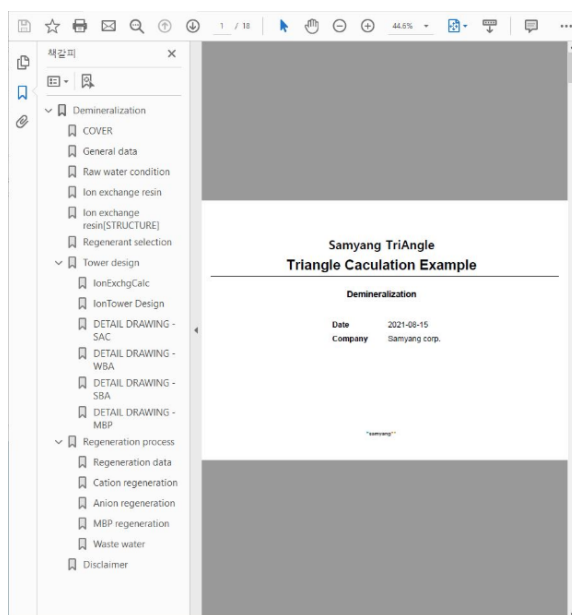
5. Save & Export process



Except the COVER and Disclaimer, other data can be exported selectively by clicking activation.

Unnecessary data can be excluded while exporting.

Export file can be either saved in PDF or Excel formats.



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Ion Exchange Resin

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