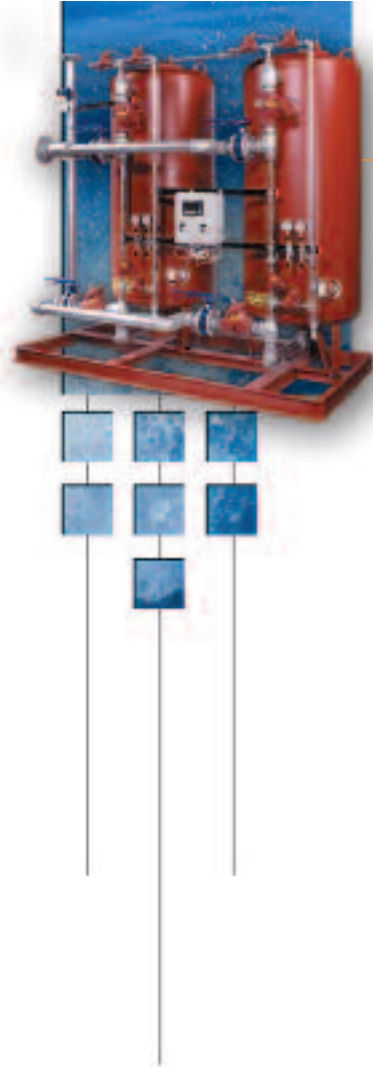


# GE Water & Process Technologies

## AquaMatic® Valves and Controls

## Easy Nest<sup>SM</sup> Kits



### ■ Performance Range (Single Tank Systems)

- Service Flow Rates ..... 80 gpm to 1300 gpm (18 m<sup>3</sup>/h to 295 m<sup>3</sup>/h)
- Backwash Flow Rates (Softeners) ..... 35 gpm to 392 gpm (8 m<sup>3</sup>/h to 89 m<sup>3</sup>/h)
- Backwash Flow Rates (Filters) ..... 35 gpm to 1200 gpm (18 m<sup>3</sup>/h to 272 m<sup>3</sup>/h)
- System Sizes..... 36" to 120" Diameter Tanks

### ■ System Configurations

- Softeners:
  - Single Tank ..... 4 Position
  - Multi-Tank ..... 2, 3, and 4 Tank, Parallel  
2 Tank Alternating Softeners
- Filters:
  - Single Tank ..... 3 Position
  - Multi-Tank ..... 2, 3, and 4 Tank, Sequential

### ■ Control Configurations

- Electronic: ..... Demand and Time Clock (Battery Back-Up)  
Programmable Regeneration Range ..... 0-255 Minutes Regeneration (Each Cycle)
- Electromechanical: ..... Time Clock, 6 or 7 Day  
Programmable Regeneration Range ..... 3-102 Minutes Complete Regeneration Cycle
- Stager Valves..... 6, 8, and 16 Ports

### ■ Piping Configurations

- Valves:
  - Cast Iron ..... 3/4" to 3" Female Thread, NPT, BSP, JIS  
3" to 6" Flanged
  - Noryl (Plastic)..... 1" to 3" Union, Female Solvent Weld  
2" to 3" Female Solvent Weld or Flange
- Injectors..... 1/2" to 2" Female NPT Thread, Solvent Weld
- Stager Tubing ..... 1/4" Poly Tubing

### ■ Design Specifications

- Valve Body ..... Cast Iron or Glass-Filled Noryl
- Diaphragm ..... Buna N/Polyamide
- Injector..... PVC
- Control Enclosures (Electro-Mechanical)..... Nema 1
- Control Enclosures (Electronic)..... Nema 4X Fiber Glass
- Operating Pressure ..... 20psi - 120 psi (1.38 - 8.27 bar)
- Operating Temperature ..... 35°F - 120°F (2°C - 38°C)
- Operating Voltages..... 115V 50/60 Hz, 220V 50/60 Hz

## ■ Selecting the Appropriate Stager and Nest Kits

Selection of the stager and valve nest kit can be done with two part numbers. The part numbers for the staggers can be found on page 4 of this specification sheet. The valve nest kit part numbers can be found on page 3 (softeners) and page 4 (filters.) Backwash flow controls, brine valves, and water meters are not included as part of the Easy Nest Kits and must be ordered separately. Below are brief descriptions of the staggers and valves. A raw water bypass option for single tank units is available, but a normally closed valve must be ordered separately.

### Control Features

#### Electromechanical Controllers

- Regenerates based on a set time

#### Electronic (Metered/Signal) Controllers

- Regenerates based on a set time, metered water usage or external signal

### Valve Body Features

#### Cast Iron

- Requires Threaded/Flanged Piping
- Requires Union Connectors
- Susceptible to Corrosive Water

#### K520 (Composite)

- Solvent Weld
- Requires Union Connectors
- Corrosion Resistant

#### K530 (Composite)

- Solvent Weld
- No Union Connectors Needed\*
- Corrosion Resistant

## ■ Selection Process

### Control Choices Example (page 4):

Select electronic or electromechanical.....	Electronic
Select the correct option for your application.....	2 Tank Alternating Softener
Find part number.....	1078842
Select quantity of controllers.....	1

### Valve Nest Choices Example (page 3 or 4):

Select filter or softener.....	Softener
Select valve type (Cast iron, K520, K530).....	K530 Valve Series
Select size of system based on tank diameter, pipe size, or flow rate.....	54" Tanks
Find part number.....	1078803
Select quantity of nest kits.....	2 (Alternating)

### Sample Order:

GE Order Form		
Qty.	PN	Description
1	1078842	2 Tank Alternating Softener Controller
2	1078803	S537-54 Nest Kit

\*Drawings on pages 5, 6, and 7 show union connectors as part of the installation. When using the K530 valves, those union connectors are not necessary.

## Available Standard Softener Configurations

Model Number	Part Number	Tank Diameter Inches (cms)	Resin Amount Cu Ft (Liters)	Pipe Size Inches	Service Flowrate at Pressure Drop		Backwash Flowrate at Pressure Drop	
					GPM@/PSI (m <sup>3</sup> /Hr.@bars)			
<b>Cast Iron Valves</b>								
S425-36	1078826	36 (92)	20 (565)	2"	100 @ 6.4	(22.7 @ .44)	36 @ 2.3	(8.1 @ .16)
S425-42	1078783	42 (106)	30 (850)	2"	150 @ 14.3	(34 @ .98)	48 @ 4.4	(10.9 @ .30)
S426-48	1078784	48 (120)	40 (1130)	2"	180 @ 14	(40.9 @ .96)	63 @ 7.5	(14.3 @ .51)
S426-54	1078785	54 (135)	50 (1415)	2 1/2"	220 @ 13.7	(50 @.94)	80 @ 12.2	(18 @ .84)
S427-60	1078786	60 (150)	60 (1700)	3"	300 @ 10.0	(68 @ .69)	98 @ 6.3	(22.2 @ .43)
S427-63	1078828	63 (160)	70 (1980)	3"	325 @ 11.6	(73.8 @ .80)	108 @ 7.5	(24.5 @ .51)
S428-72	1078787	72 (180)	85 (2400)	4"	425 @ 4.8	(96.6 @ .33)	140 @ 8.5	(31.8 @ .58)
S428-78	1078788	78 (200)	100 (2830)	4"	500 @ 6.6	(113.6 @.45)	165 @ 11.8	(37.5 @ .81)
S428-84	1078789	84 (215)	125 (3540)	4"	625 @ 10	(142 @ .69)	192 @ 10.5	(43.6 @ .72)
S428-90	1078790	90 (230)	140 (3965)	4"	700 @ 13	(159 @ .89)	220 @ 13.8	(50 @ .95)
S429-96	1078791	96 (245)	165 (4670)	6"	825 @ 4.0	(187.5 @ .27)	255 @ 7.6	(58 @ .52)
S429-102	1078792	102 (260)	185 (5240)	6"	925 @ 4.2	(210 @.29)	285 @ 9.2	(64.7 @ .63)
S429-108	1078793	108 (275)	210 (5945)	6"	1100 @ 6.0	(250 @ .41)	320 @ 11.5	(72.7 @ .79)
S429-114	1078794	114 (290)	235 (6655)	6"	1200 @ 7.0	(272 @ .48)	355 @ 3.5	(80.6 @ .24)
S429-120	1078795	120 (305)	260 (7360)	6"	1300 @ 8.3	(295 @.57)	390 @ 5.0	(88.6 @ .34)
<b>Composite Valves Series K520</b>								
S524-36	1078796	36 (92)	20 (565)	1 1/2"	80 @ 9.0	(18.1 @ .62)	35 @ 11	(7.9 @ .76)
S526-42	1078797	42 (106)	30 (850)	2 1/2"	150 @ 4.5	(34 @ .31)	48 @ 4.0	(10.9 @ .27)
S526-48	1078798	48 (120)	40 (1130)	2 1/2"	180 @ 7.0	(41 @ .48)	63 @ 5.6	(14.3 @ .38)
S526-54	1078799	54 (135)	50 (1415)	2 1/2"	220 @ 10	(50 @ .69)	80 @ 10	(18 @ .69)
<b>Composite Valves Series K530</b>								
S534-36	1078800	36 (92)	20 (565)	1 1/2"	100 @ 8.7	(22.7 @.60)	35 @ 7.5	(7.9 @ .51)
S535-42	1078801	42 (106)	30 (850)	2"	150 @ 6.4	(34 @ .44)	48 @ 2.0	(10.9 @ .14)
S535-48	1078802	48 (120)	40 (1130)	2"	180 @ 9.2	(41 @ .63)	63 @ 4.0	(14.3 @.27)
S537-54	1078803	54 (135)	50 (1415)	3"	220 @ 2.4	(50 @ .16)	80 @ 7.0	(18 @ .48)
S537-60	1078829	60 (150)	60 (1700)	3"	300 @ 4.5	(68.1 @ .31)	98 @ 8.4	(22.2 @ .57)
S537-63	1078804	63 (160)	65 (1840)	3"	325 @ 5.3	(73.8 @ .36)	110 @ 4.0	(25 @ .27)
S537-72	1078805	72 (182)	90 (2550)	3"	425 @ 9.0	(96.6 @.62)	140 @ 7.0	(31.8 @.48)

*Note: Data supplied herein is provided as a guide only. Actual results may vary depending upon actual water conditions and system layout. Flow rates shown are valves only, not the completed system.*

## Available Standard Filter Configurations

Model Number	Part Number	Tank Diameter Inches (cm)	Pipe Size Inches	Service and Backwash Flowrate @ Pressure Drop		
				GPM@PSI (m <sup>3</sup> /Hr@bars)		
				5 GPM/ft <sup>2</sup>	10 GPM/ft <sup>2</sup>	15 GPM/ft <sup>2</sup>
<b>Cast Iron Valves</b>						
F425-42	1078806	42 (106)	2"	48@1.5 (10.9@.10)	96@5.8 (21.8@.4)	145@13.2 (33@.91)
F426-48	1078807	48 (120)	2"	62@1.7 (14@.11)	125@6.7(28@.46)	190@15 (43.2@1.03)
F426-54	1078808	54 (135)	2 1/2"	80@2.8 (18.1@.19)	160@7.2 (36.2@.49)	240@16 (54.5@1.1)
F427-60	1078809	60 (150)	3"	97@1.1 (22.0@.07)	195@4.3 (44@.29)	295@9.5 (67@.65)
F428-72	1078810	72 (180)	4"	140@0.5(31.8@.034)	280@2.5 (63.6@.17)	425@5.5 (96.6@.38)
F428-78	1078811	78 (200)	4"	165@0.7 (36.3@.048)	330@3.2 (75@.22)	500@7.5 (113@.51)
F428-84	1078812	84 (215)	4"	190@1.0 (43@.069)	380@4.4 (87.5@.30)	580@10 (132@.69)
F428-96	1078813	96 (245)	4"	250@1.6 (56.8@.11)	500@7.4 (113.6@.51)	750@16 (170@1.1)
F429-108	1078814	108 (275)	6"	315@0.5 (71@.034)	635@2.0 (143.6@.13)	960@4.5 (218@.31)
F429-120	1078815	120 (305)	6"	390@0.8 (88.6@.055)	780@3.0 (177@.20)	1180@7.4 (268@.51)
<b>Composite Valves Series K520</b>						
F524-36	1078816	36 (90)	2"	35@1.7 (8.0@.11)	70@6.8 (16@.47)	105@15 (23.8@1.03)
F526-42	1078817	42 (105)	2 1/2"	48@0.46 (11@.032)	96@2.0 (22@.13)	145@4.2 (33@.29)
F526-48	1078818	48 (120)	3"	62.5@0.8 (14.2@.055)	125@3.2 (28.4@.22)	190@7.3 (43.2@.50)
F526-54	1078819	54 (135)	3"	80@1.3 (18.1@.09)	160@5.2 (36.2@.36)	240@11.5 (54.5@.79)
<b>Composite Valves Series K530</b>						
F534-36	1078820	36 (90)	1 1/2"	35@1.2 (8@.08)	70@4.3 (16@.29)	105@9.6 (23.8@.66)
F535-42	1078821	42 (105)	2"	48@0.6 (11@.041)	96@2.7 (22@.18)	145@6.0 (33@.41)
F535-48	1078822	48 (120)	2"	62.5@1.1 (14.2@.075)	125@4.5 (28.4@.31)	190@10.5 (43.2@.72)
F537-54	1078823	54 (135)	3"	80@0.4 (18.1@.027)	160@1.6 (36.2@.11)	240@3.5 (54.5@.24)
F537-60	1078829	60 (150)	3"	98@0.6 (22.2@.041)	195@2.2 (44.3@.15)	295@5.4 (67@.37)
F537-63	1078824	63 (160)	3"	107@0.7 (24@.048)	215@2.7 (48@.18)	325@7.0 (73.8@.48)
SF37-72	1078825	72 (180)	3"	140@1.2 (31.8@.082)	280@5.0 (63.6@.34)	425@11.4 (96.6@.78)

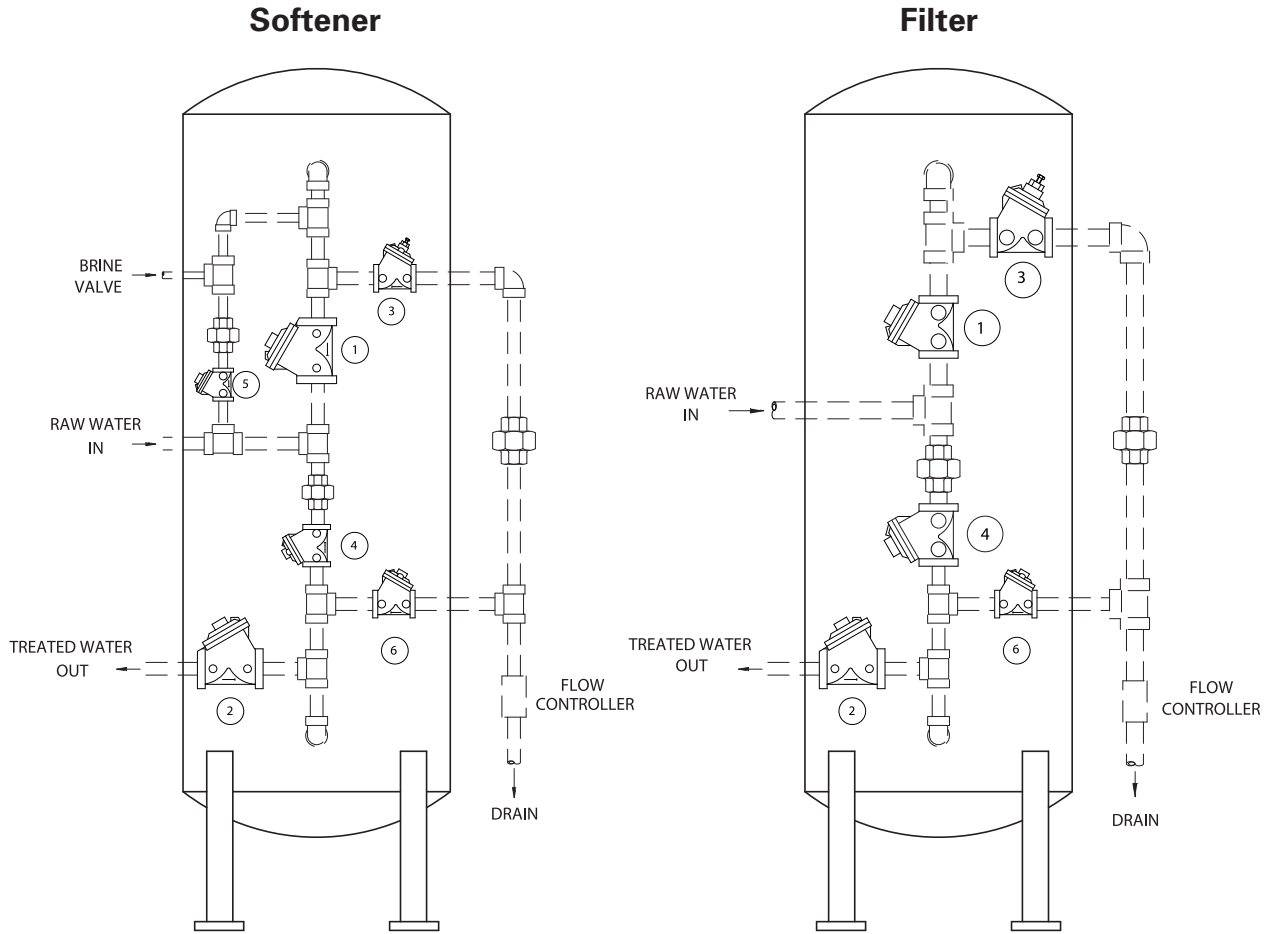
*Note: Data supplied herein is provided as a guide only. Actual results may vary depending upon actual water conditions and system layout. Flow rates shown are valves only, not completed systems.*

## Electro-Mechanical Controllers

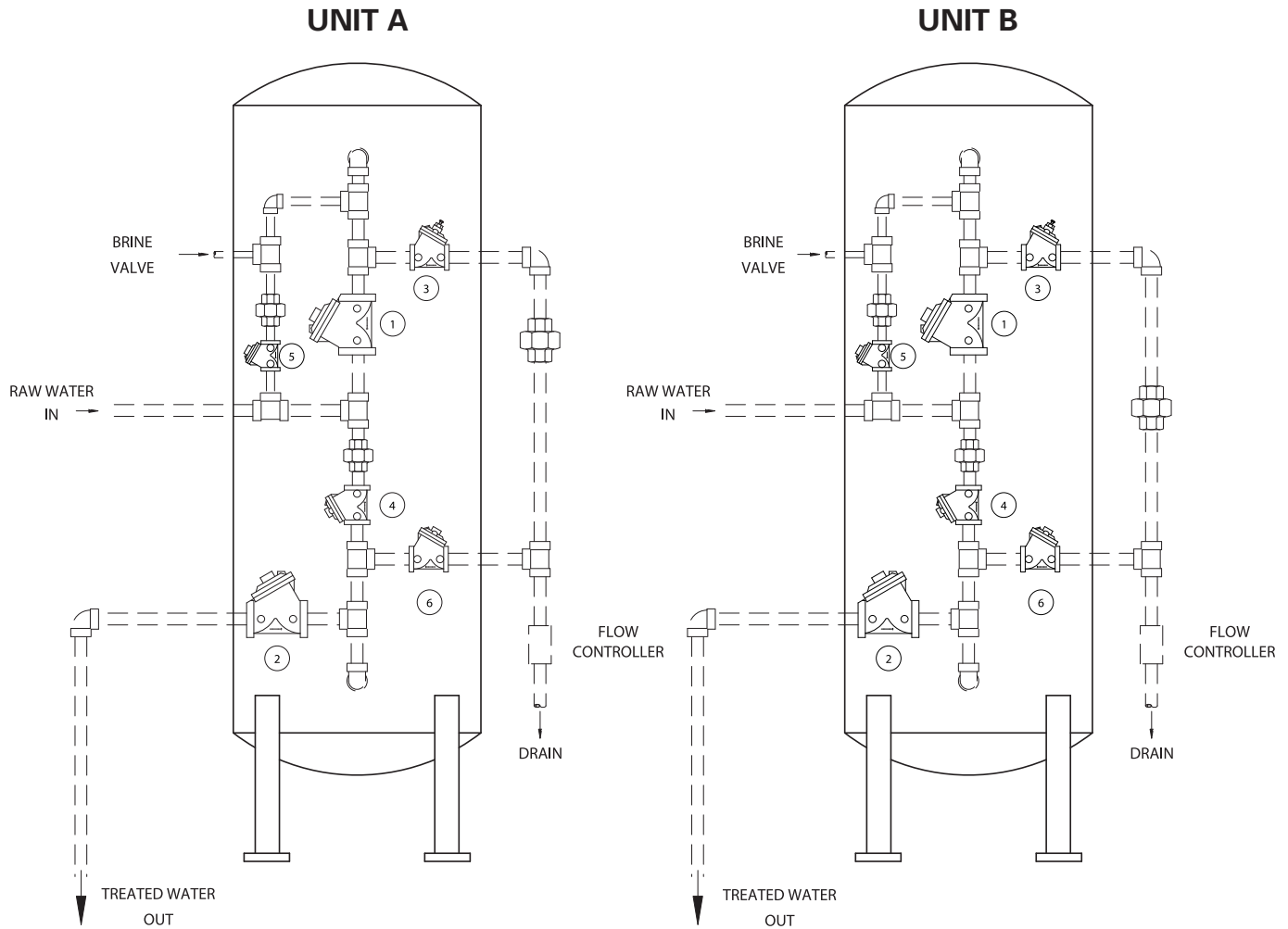
Description	Part No.
Single Tank, 4 Position Softener	P/N.1078830
Single Tank, 3 Position Filter	P/N.1078831
2 Tank Sequential Filter	P/N.1078832
3 Tank Sequential Filter	P/N.1078833
4 Tank Sequential Filter	P/N.1078834
2 Tank Alternating Softener	P/N.1078835
2 Tank Alternating Softener w/Rinse Down	P/N.1078836

## Electronic Controllers

Description	Part No.
Single Tank, 4 Position Softener	P/N.1078837
Single Tank, 3 Position Filter	P/N.1078838
2 Tank Sequential Filter	P/N.1078839
3 Tank Sequential Filter	P/N.1078840
4 Tank Sequential Filter	P/N.1078841
2 Tank Alternating Softener	P/N.1078842
2 Tank Alternating Softener w/Rinse Down	P/N.1078843



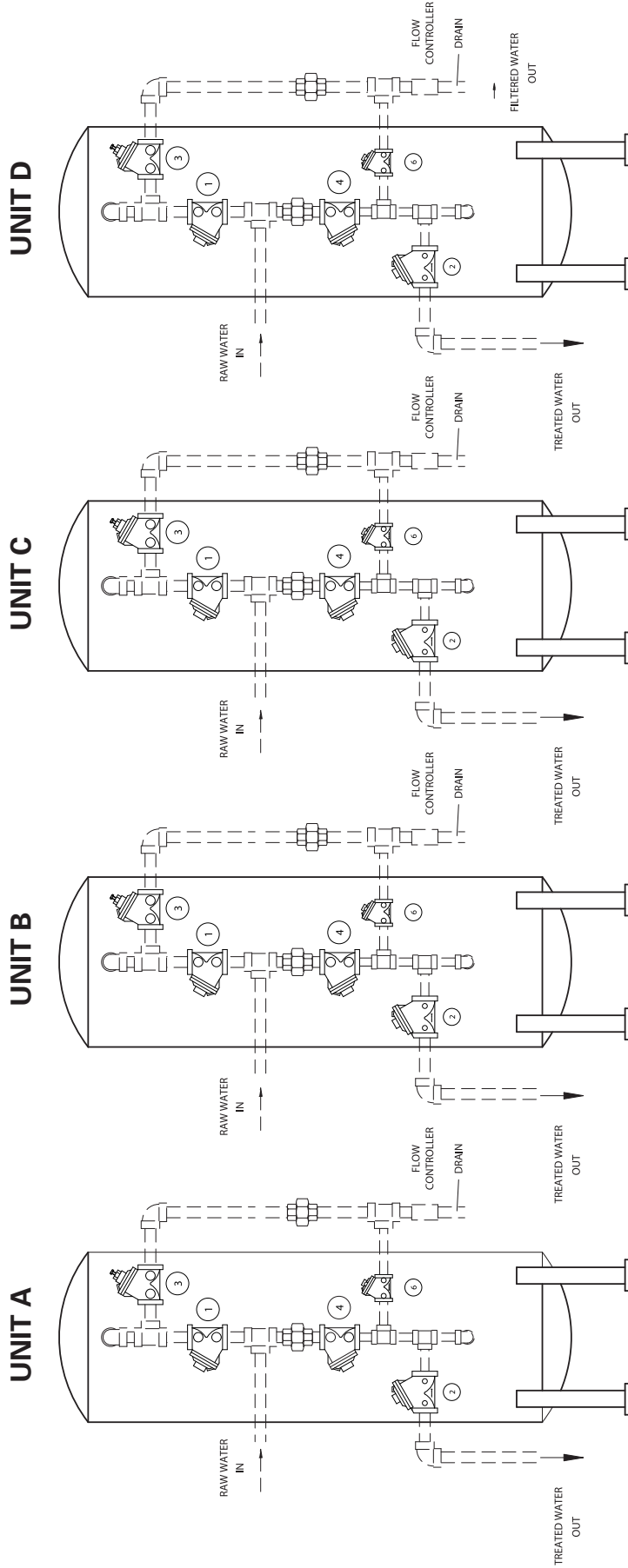
*All systems are designed for guideline purposes only. Final authorship of engineering design and application is the responsibility of the assembling OEM. GE can not be responsible for the performance and integrity of the installed system.*



### Two Tank Alternating Softeners

*All systems are designed for guideline purposes only. Final authorship of engineering design and application is the responsibility of the assembling OEM. GE can not be responsible for the performance and integrity of the installed system.*

■ **Standard System Layouts** (Continued)



**Four Tank Sequential Filter**

*All systems are designed for guideline purposes only. Final authorship of engineering design and application is the responsibility of the assembling OEM. GE can not be responsible for the performance and integrity of the installed system.*

**For More Information:**

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