COMMERCIAL / INDUSTRIAL

CHEMICAL REMOVAL FILTER SYSTEMS

When performance & value matters.

EXCALIBUR Water Systems

CONTROL VALVES

SPECIFICATIONS	EWS1	EWS1.5	EWS2QC
Service @ 15 psi drop **Backwash @ 25 psi drop**	27 gpm (includes meter & bypass) 27 gpm (includes bypass)	70 gpm 52 gpm	125 gpm 85 gpm
TANK APPLICATIONS: **Filter**	6" - 21" diameter	12" - 30" diameter	12" - 36" diameter
Inlet/Outlet **Fitting Connections**	1" - 1.25" NPT 3/4" - 1.5" Sweat 3/4" - 1.5" Solvent 3/4" - 1" SharkBite®	1.5" Female NPT	2" Female NPT
Valve Material **Cycles** **Regeneration**	Noryl Up to 6 Downflow/Upflow	Lead Free Brass Up to 6 Downflow/Upflow	Lead Free Brass Up to 6 Downflow/Upflow
Operating Pressures **Operating Temperatures**	20 - 125 psi 40° - 110° F	20 - 125 psi 40° - 110° F	20 - 125 psi 40° - 110° F
METER: **Flow Rate Range** **Volume Range (gallons)** **Totalizer**	0.25 - 27 gpm 20 - 1,500,000 gallons Yes	0.5 - 75 gpm 20 - 1,500,000 gallons Yes	1.5 - 150 gpm 20 - 1,500,000 gallons Yes
Distributor Pilot	1.050" O.D. Pipe 3/4" NPS	1.90" O.D. Pipe 1.5" NPS	2.375" O.D. Pipe 2" NPS
Drain Line Connection	3/4" Male NPT Standard 1" Male NPT Optional	1.25" Female NPT with 3/4" Male NPT Standard 1" Male NPT Optional	1.5" Female NPT
Mounting Base Options	2 1/2" - 8 NPSM	4" - 8 UN	Quick Disconnect 4" - 8 UN 6" Flange Side Mount
Height From Top of Tank	7 3/8"	9.5"	with 4" - 8 UN QC Base is 11.2" with 6" Flange QC Base is 11.3"
Shipping Weight	4.5 lbs.	21 lbs.	29 lbs.
ELECTRICAL: **Supply Voltage** **Supply Frequency** **Output Voltage** **Output Current**	120V 60 Hz 12V AC 500 mA	120V 60 Hz 12V AC 500 mA	120V 60 Hz 12V AC 500 mA

CONTROL VALVES

SPECIFICATIONS	EWS2H	EWS3
Service @ 15 psi drop **Backwash @ 25 psi drop**	125 gpm (includes meter) 125 gpm	250 gpm 220 gpm
Tank Application:Filter	18" - 48" diameter	18" - 63" diameter
Inlet/Outlet **Fitting Connections**	2" Female NPT / 3" Female NPT 2.5" Groove Lock	3" Female NPT
Valve Material **Cycles** **Regeneration**	Lead Free Brass Up to 9 Downflow	Lead Free Brass Up to 9 Downflow
Operating Pressures **Operating Temperatures**	20 - 125 psi 40° - 110° F	20 - 125 psi 40° - 110° F
METER: **Flow Rate Range** **Volume Range (gallons)** **Totalizer**	 1.5 - 125 gpm 10 - 999,000 gallons Yes	 3.5 - 350 gpm 10 - 999,000 gallons Yes
Distributor Pilot	2.375" O.D. Pipe 2" NPS	3.5" O.D. Pipe 3" NPS
Drain Line Connection	2" Female NPT / 2.5" Groove Lock	3" Female NPT
Mounting Base Options	Quick Disconnect 4" - 8 UN 6" Flange Side Mount	Quick Disconnect 6" Flange Side Mount
Height From Top of Tank	with 4" - 8 UN QC Base is 11.5" with 6" Flange QC Base is 11.6"	with 6" Flange QC Base is 12.5"
Shipping Weight	50 lbs.	57 lbs. (no meter)
ELECTRICAL: **Supply Voltage** **Supply Frequency** **Output Voltage** **Output Current**	 120V AC 60 Hz 20V AC 750 mA	 120V AC 60 Hz 20V AC 750 mA

COMMERCIAL / INDUSTRIAL CHEMICAL REMOVAL FILTER COMPONENTS

MOTORIZED ALTERNATING VALVE (MAV)

- Engineered for duplex alternating system
- 1-1/4" to 2" Motorized Alternating Valves
- Full porting with minimal pressure loss
- Provides for no raw water bypass during regeneration
- Low voltage drive assy controlled by valve circuit board
- Operating pressures 20psi-125psi
- Operating temperatures 40˚ F - 110˚ F
- Patent seal spacer stack assy
- Hydraulically balanced piston valve
- Proven and reliable Excalibur DC drive assy

NO HARD WATER BYPASS (NHWB)

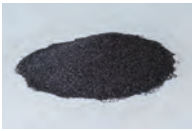
- Engineered for duplex alternating with progressive flow & system controller applications
- 1" to 3" No Hard Water Bypass Valves
- 316 stainless & composite materials of construction
- Designed for use in multiple tank configurations
- Proven and reliable Excalibur DC drive assy
- Hydraulically balanced piston valve
- Patent seal spacer stack assy
- Operating pressures 20psi-125psi
- Operating temperatures 40˚ F - 110˚ F
- Low voltage drive assy controlled by valve circuit board
- Full porting with minimal pressure loss

EXCALIBUR SYSTEM CONTROLLER

- Excalibur System Controller may operate 2-6 vessels
- 1" to 2" Control Valve Engineered Systems
- System diagnostic & programming information download
- Two fused single pole double throw (SPDT) relay outputs
- Front panel displays for time of day, day of week, days until next regeneration, current system flow rate & total system volume utilized
- System regeneration types progressive flow, alternator, series, and random options
- Solid state processor friendly front panel programming
- Front panel LED status indicators for online, standby, and regeneration
- Single demand based output meter
- Coin cell lithium battery for backup time of day

MINERAL TANKS

- Excalibur mineral tanks are made of high pressure composite materials - LLDPE liner with FRP filament winding outer shell
- Flanged tanks manufactured with continuous seam-less inner liner shell with a solid anodize aluminum cast flange
- This design provides excellent strength, durability and leak free service
- Maximum operating pressure 150psi
- Maximum operating temperature 120˚ F
- Mineral tanks are NSF 44 & PED certified



MEDIA

- Excalibur 1230C-AW media is a virgin granular activated carbon produced from coconut shell char through a high temperature steam activation process under stringent quality control
- Provides large surface area, high mechanical hardness, excellent pore volume and chemical stability that make it ideal for many liquid phase applications
- Media is acid washed to reduce ash and enhance purity
- 12x30 mesh size with 5% maximum quantity greater than 12 mesh size and 5% maximum quantity less than 30 mesh size
- Iodine number greater than 1100 mg/g
- 5% maximum moisture and 1% maximum ash content
- Apparent density of 0.5 g/cc
- ANSI/NSF 42 certified and California Prop 65 compliant available upon request

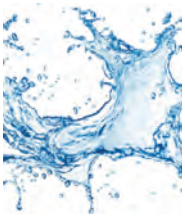
COMMERCIAL / INDUSTRIAL CHEMICAL REMOVAL FILTER COMPONENTS

GRAVEL SUPPORT BED

- **Excalibur uncrushed gravel has a highly spherical shape that promotes good flow and even distribution support bed**
- **Gravel will maintain the quality of the treated water**
- **Multi depth layered gravel support bed for maximum flow rates with minimum pressure drop**

WATER DISTRIBUTION

- **Excalibur high impact FDA approved hub and lateral high flow distributors are utilized to evenly collect and distribute the flow of water over the entire resin bed.**



PROGRESSIVE FLOW

- **Progressive flow provides minimum to maximum peak flow rates utilizing one or all of the vessels in the design configuration to satisfy current demand. This system will utilize and operate outlet isolation valves with a predetermined flow rate set point to bring online additional units to meet peak flow rate requirements.**

This system configuration determines the need to regenerate based on a unit reaching zero capacity or day override.

COMMERCIAL / INDUSTRIAL CHEMICAL REMOVAL FILTER APPLICATIONS

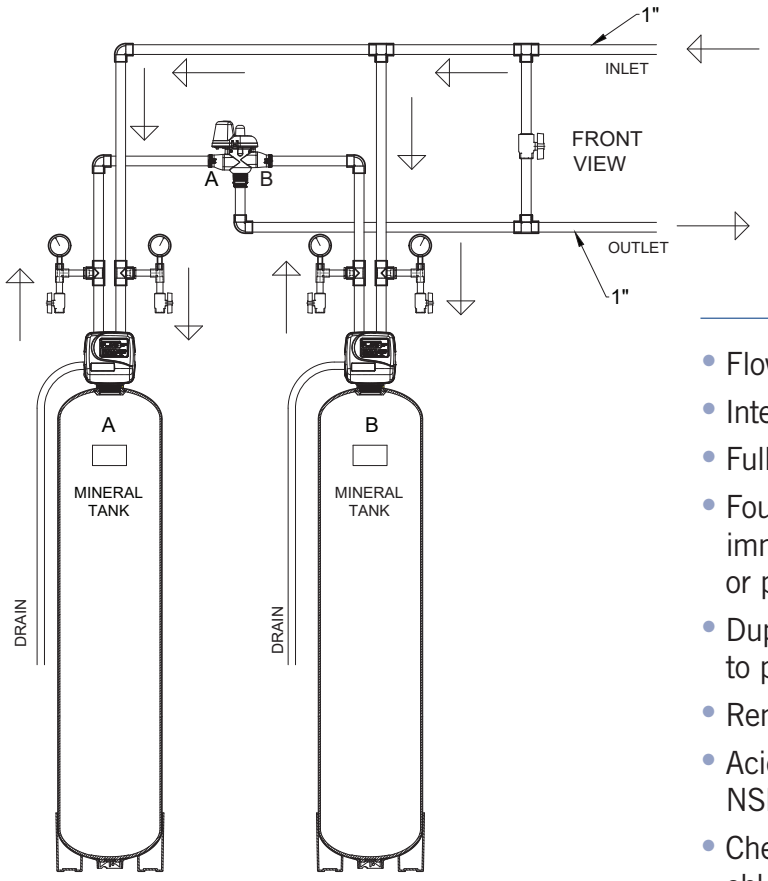
Commercial Applications

Assisted Living Facilities
Motels
Hotels
Hospitals
Car Wash
Trailer Parks
Schools
Laundry Mats
Gas Stations
Restaurants
Health Clubs
Grocery Stores

Industrial Applications

Boiler Pre Treatment
Pharmaceutical
Paint Booths
Process Water
Steel Industries
Aerospace
Food Processing
Bottling Plants
Cooling Tower
Petro Chemical
Electronics
Pulp & Paper
Power Generation
Fisheries

EXCALIBUR 1” SIMPLEX & DUPLEX
CHEMICAL REMOVAL FILTER SPECIFICATIONS



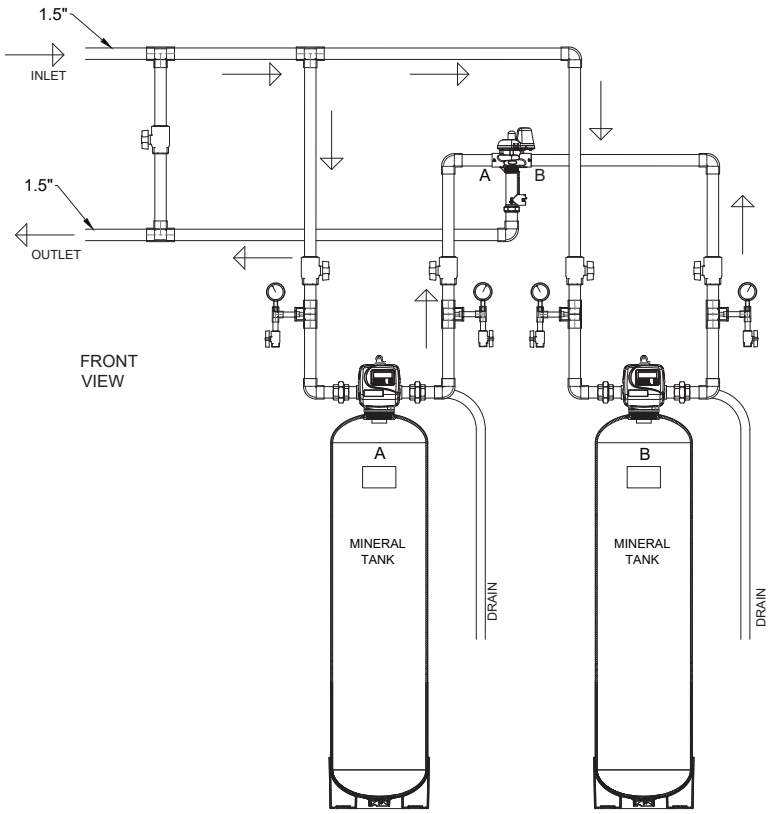
Simplex & Duplex Fully Automatic Electronic Demand Commercial Chemical Removal Filters

- Flow Rates up to 24 USGPM
- Internal Electronic Flow Meter range 0.25-27 USGPM
- Fully adjustable 6 cycle valve
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Duplex Chemical Removal Filters utilize MAV controls to provide regeneration
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)						APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Chloramine Removal	TOC Removal	Chlorine Removal	Peak	Backwash	L	W	H	
EWS FS1CS1	1.0	0.4	0.8	1.0	3.0	4.0	4.2	10	18	57	70
EWS FD1CS1	2.0	0.4	0.8	1.0	3.0	4.0	4.2	22	18	57	140
EWS FS1CS1.5	1.5	0.6	1.1	1.5	4.5	6.0	5.3	11	18	63	85
EWS FD1CS1.5	3.0	0.6	1.1	1.5	4.5	6.0	5.3	23	18	63	170
EWS FS1CS2	2.0	0.8	1.5	2.0	6.0	8.0	7.5	13	18	62	110
EWS FD1CS2	4.0	0.8	1.5	2.0	6.0	8.0	7.5	28	18	62	220
EWS FS1CS2.5	2.5	1.0	1.9	2.5	7.5	10.0	9.0	14	18	64	200
EWS FD1CS2.5	5.0	1.0	1.9	2.5	7.5	10.0	9.0	30	18	64	400
EWS FS1CS3	3.0	1.2	2.3	3.0	9.0	12.0	10.0	15	18	75	290
EWS FD1CS3	6.0	1.2	2.3	3.0	9.0	12.0	10.0	32	18	75	580
EWS FS1CS4	4.0	1.6	3.0	4.0	12.0	16.0	13.0	17	18	75	370
EWS FD1CS4	8.0	1.6	3.0	4.0	12.0	16.0	13.0	38	18	75	740
EWS FS1CS5	5.0	2.0	3.8	5.0	15.0	20.0	17.0	19	19	75	490
EWS FD1CS5	10.0	2.0	3.8	5.0	15.0	20.0	17.0	42	19	75	980
EWS FS1CS6	6.0	2.4	4.5	6.0	18.0	24.0	25.0	22	22	76	570
EWS FD1CS6	12.0	2.4	4.5	6.0	18.0	24.0	25.0	48	22	76	1,140

EXCALIBUR 1.5” SIMPLEX & DUPLEX CHEMICAL REMOVAL FILTER SPECIFICATIONS



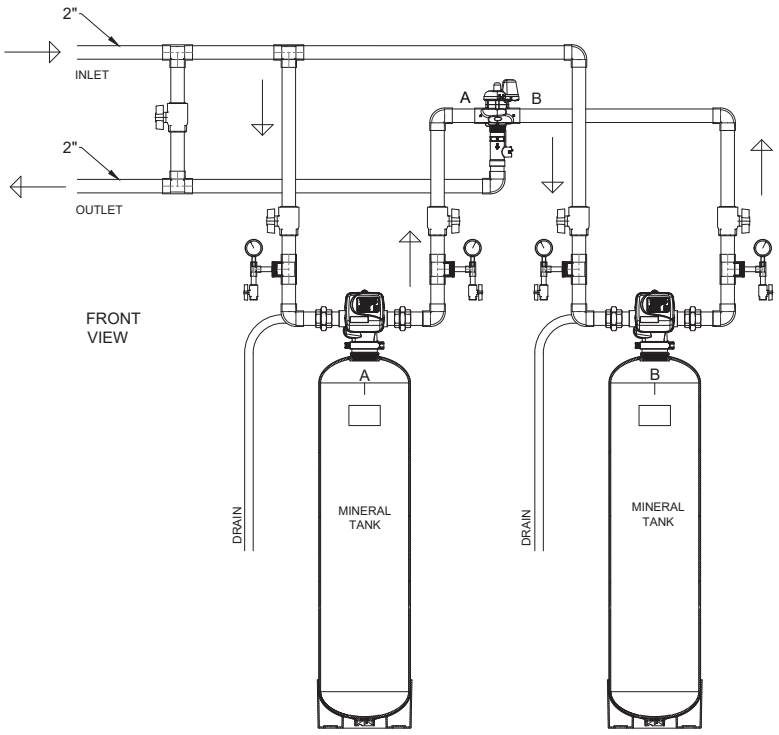
Simplex & Duplex Fully Automatic Electronic Demand Commercial Chemical Removal Filters

- Flow Rates up to 48 USGPM
- External Electronic Flow Meter range 0.5-75 USGPM
- Fully adjustable 6 cycle valve
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differiential
- Duplex Chemical Removal Filters utilize MAV controls to provide regeneration
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)						APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Chloramine Removal	TOC Removal	Chlorine Removal	Peak	Backwash	L	W	H	
EWS FS15CS4	4.0	1.6	3.0	4.0	12.0	16.0	13.0	20	17	75	370
EWS FD15CS4	8.0	1.6	3.0	4.0	12.0	16.0	13.0	42	17	75	740
EWS FS15CS5	5.0	2.0	3.8	5.0	15.0	20.0	17.0	22	19	74	490
EWS FD15CS5	10.0	2.0	3.8	5.0	15.0	20.0	17.0	44	19	74	980
EWS FS15CS6	6.0	2.4	4.5	6.0	18.0	24.0	25.0	24	22	74	520
EWS FD15CS6	12.0	2.4	4.5	6.0	18.0	24.0	25.0	50	22	74	1,040
EWS FS15CS8	8.0	3.2	6.0	8.0	24.0	32.0	31.5	25	25	85	730
EWS FD15CS8	16.0	3.2	6.0	8.0	24.0	32.0	31.5	54	25	85	1,460
EWS FS15CS12	12.0	4.8	9.0	12.0	36.0	48.0	49.2	31	31	95	1,065
EWS FD15CS12	24.0	4.8	9.0	12.0	36.0	48.0	49.2	66	31	95	2,130

EXCALIBUR 2”QC SIMPLEX & DUPLEX CHEMICAL REMOVAL FILTER SPECIFICATIONS



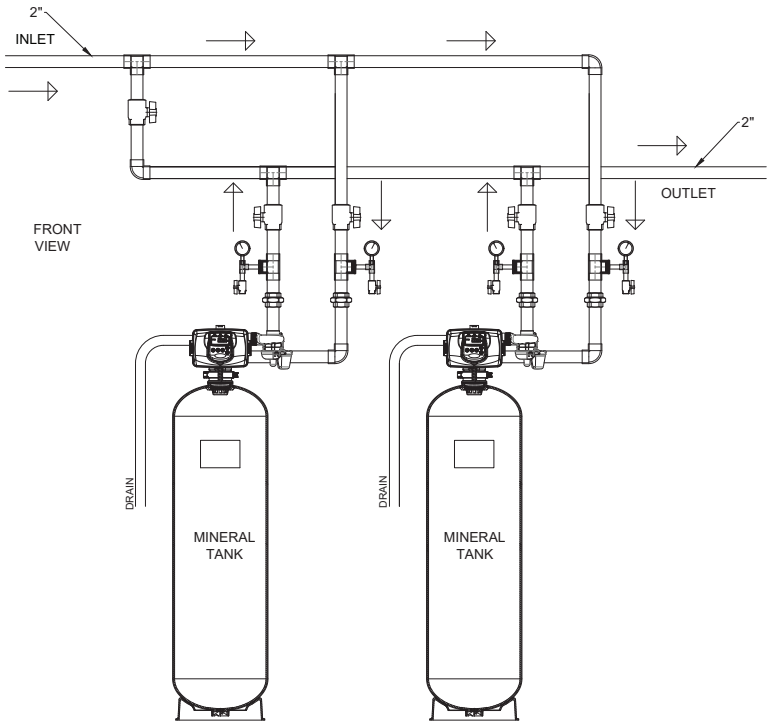
Simplex & Duplex Fully Automatic Electronic Demand Commercial Chemical Removal Filters

- Flow Rates up to 72 USGPM
- External Electronic Flow Meter range 1.5-150 USGPM
- Fully adjustable 6 cycle valve
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differential
- Duplex Chemical Removal Filters utilize MAV controls to provide regeneration
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)						APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Chloramine Removal	TOC Removal	Chlorine Removal	Peak	Backwash	L	W	H	
EWS FS2MQCCS4	4.0	1.6	3.0	4.0	12.0	16.0	13.0	20	17	75	420
EWS FD2MQCCS4	8.0	1.6	3.0	4.0	12.0	16.0	13.0	42	17	75	840
EWS FS2MQCCS5	5.0	2.0	3.8	5.0	15.0	20.0	17.0	22	19	74	540
EWS FD2MQCCS5	10.0	2.0	3.8	5.0	15.0	20.0	17.0	44	19	74	1,080
EWS FS2MQCCS6	6.0	2.4	4.5	6.0	18.0	24.0	25.0	24	22	74	570
EWS FD2MQCCS6	12.0	2.4	4.5	6.0	18.0	24.0	25.0	50	22	74	1,140
EWS FS2MQCCS8	8.0	3.2	6.0	8.0	24.0	32.0	31.5	25	25	85	780
EWS FD2MQCCS8	16.0	3.2	6.0	8.0	24.0	32.0	31.5	54	25	85	1,560
EWS FS2MQCCS12	12.0	4.8	9.0	12.0	36.0	48.0	49.2	31	31	95	1,100
EWS FD2MQCCS12	24.0	4.8	9.0	12.0	36.0	48.0	49.2	66	31	95	2,200
EWS FS2MQCCS18	18.0	7.2	13.5	18.0	54.0	72.0	70.3	37	37	96	2,550
EWS FD2MQCCS18	36.0	7.2	13.5	18.0	54.0	72.0	70.3	78	37	96	5,100

EXCALIBUR 2H" SIMPLEX & DUPLEX PROGRESSIVE CHEMICAL REMOVAL FILTER SPECIFICATIONS



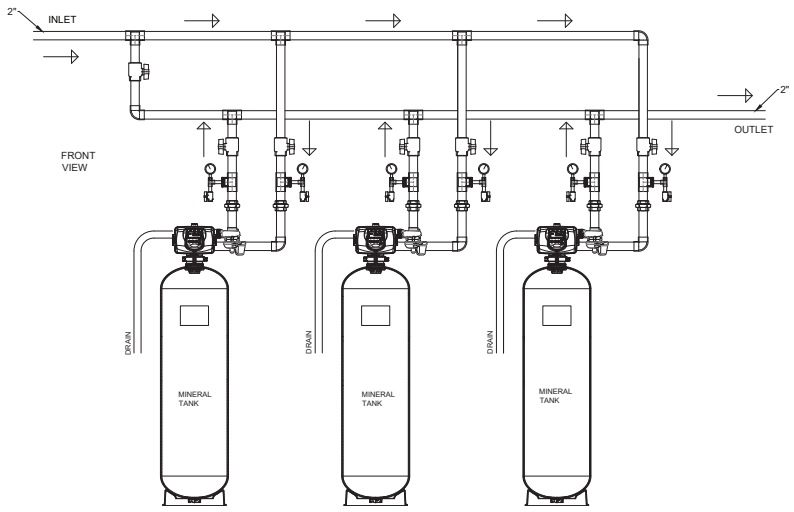
Simplex & Duplex Fully Automatic Electronic Demand Commercial Chemical Removal Filters

- Flow Rates up to 192 USGPM
- Internal Electronic Flow Meter range 1.5-125 USGPM
- Fully adjustable 9 cycle valve
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differiential
- Duplex Chemical Removal Filters utilize NHWB valves to initiate regeneration and progressive flow system operations
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)						APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Chloramine Removal	TOC Removal	Chlorine Removal	Peak	Backwash	L	W	H	
EWS FS2HCS5	5.0	2.0	3.8	5.0	15.0	20.0	17.0	19	23	82	450
EWS FD2HCS5	10.0	2.0	7.5	10.0	30.0	40.0	17.0	42	23	82	900
EWS FS2HCS6	6.0	2.4	4.5	6.0	18.0	24.0	25.0	22	23	85	550
EWS FD2HCS6	12.0	2.4	9.0	12.0	36.0	48.0	25.0	48	23	85	1,100
EWS FS2HCS8	8.0	3.2	6.0	8.0	24.0	32.0	31.5	25	25	89	770
EWS FD2HCS8	16.0	3.2	12.0	16.0	48.0	64.0	31.5	54	25	89	1,550
EWS FS2HCS12	12.0	4.8	9.0	12.0	36.0	48.0	49.2	31	31	96	1,100
EWS FD2HCS12	24.0	4.8	18.0	24.0	72.0	96.0	49.2	66	31	96	2,200
EWS FS2HCS18	18.0	7.2	13.5	18.0	54.0	72.0	70.3	37	37	98	1,500
EWS FD2HCS18	36.0	7.2	27.0	36.0	108.0	144.0	70.3	78	37	98	3,000
EWS FS2HCS24	24.0	9.6	18.0	24.0	72.0	96.0	96.3	43	43	109	2,270
EWS FD2HCS24	48.0	9.6	36.0	48.0	144.0	192.0	96.3	90	43	109	4,550

EXCALIBUR 2H" TRIPLEX & QUADPLEX PROGRESSIVE CHEMICAL REMOVAL FILTER SPECIFICATIONS



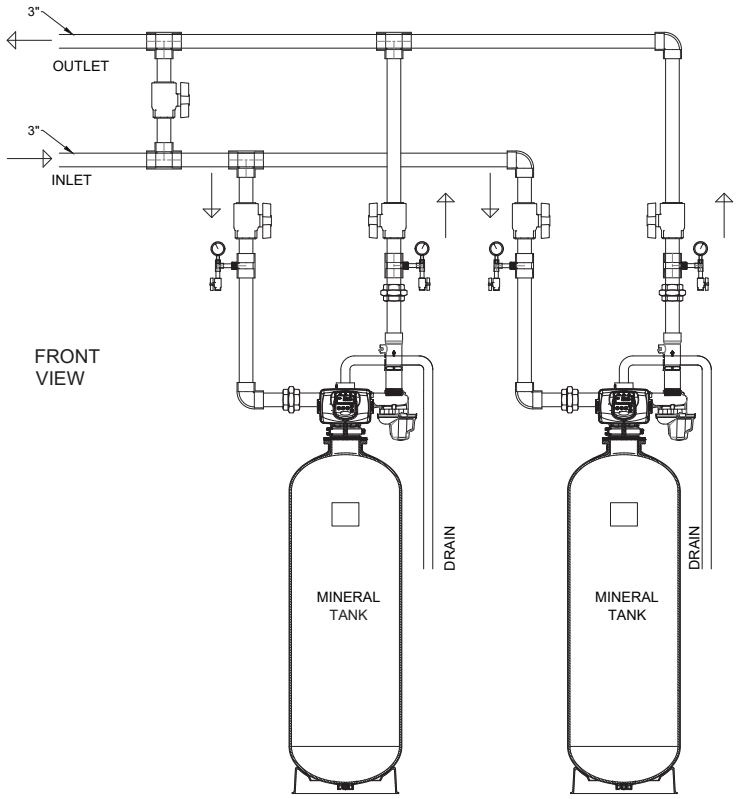
Triplex & Quadplex Fully Automatic Electronic Demand Commercial Chemical Removal Filters

- Flow Rates up to 384 USGPM
- System designs up to 4 vessels
- Internal Electronic Flow Meter
- Fully adjustable 9 cycle valve
- Progressive flow on demand filtered water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differiential
- Triplex & Quad Chemical Removal Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)						APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Chloramine Removal	TOC Removal	Chlorine Removal	Peak	Backwash	L	W	H	
EWS FT2HCS5	15.0	2.0	11.3	15.0	45.0	60.0	17.0	65	23	82	1,350
EWS FQ2HCS5	20.0	2.0	15.0	20.0	60.0	80.0	17.0	88	23	82	1,800
EWS FT2HCS6	18.0	2.4	13.5	18.0	54.0	72.0	25.0	74	23	85	1,650
EWS FQ2HCS6	24.0	2.4	18.0	24.0	72.0	96.0	25.0	100	23	85	2,200
EWS FT2HCS8	24.0	3.2	18.0	24.0	72.0	96.0	31.5	83	25	89	2,310
EWS FQ2HCS8	32.0	3.2	24.0	32.0	96.0	128.0	31.5	112	25	89	3,100
EWS FT2HCS12	36.0	4.8	27.0	36.0	108.0	144.0	49.2	101	31	96	3,300
EWS FQ2HCS12	48.0	4.8	36.0	48.0	144.0	192.0	49.2	136	31	96	4,400
EWS FT2HCS18	54.0	7.2	40.5	54.0	162.0	216.0	70.3	119	37	98	4,500
EWS FQ2HCS18	72.0	7.2	54.0	72.0	216.0	288.0	70.3	160	37	98	6,000
EWS FT2HCS24	72.0	9.6	54.0	72.0	216.0	288.0	96.3	137	43	109	6,810
EWS FQ2HCS24	96.0	9.6	72.0	96.0	288.0	384.0	96.3	184	43	109	9,100

EXCALIBUR 3” SIMPLEX & DUPLEX PROGRESSIVE CHEMICAL REMOVAL FILTER SPECIFICATIONS



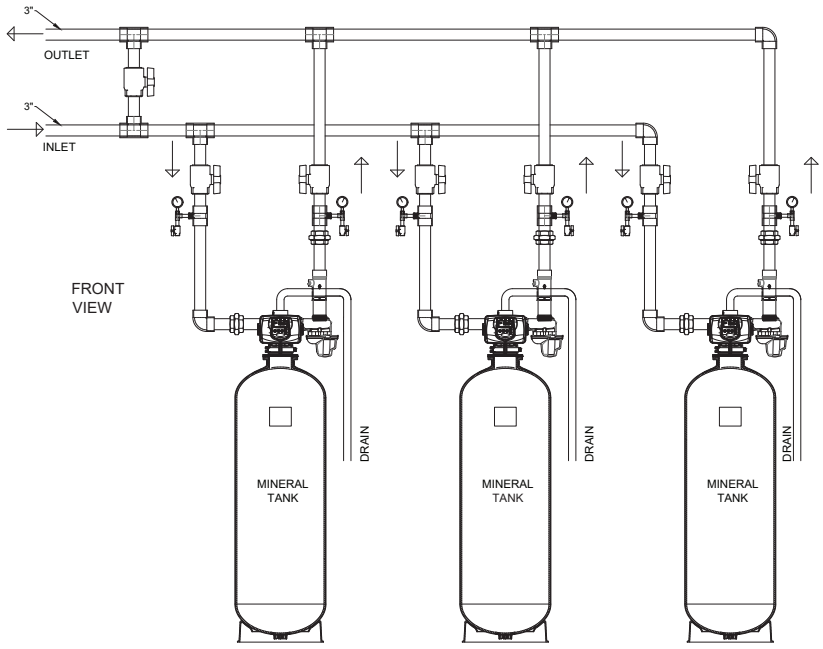
Simplex & Duplex Fully Automatic Electronic Demand Commercial Chemical Removal Filters

- Flow Rates up to 256 USGPM
- External Electronic Flow Meter range 3.5-350 USGPM
- Fully adjustable 9 cycle valve
- Progressive flow on demand filtered water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differiential
- Duplex Chemical Removal Filters utilize NHWB valves to initiate regeneration and progressive flow system operations
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)						APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Chloramine Removal	TOC Removal	Chlorine Removal	Peak	Backwash	L	W	H	
EWS FS3CS8	8.0	3.2	6.0	8.0	24.0	32.0	31.5	25	25	90	770
EWS FD3CS8	16.0	3.2	12.0	16.0	48.0	64.0	31.5	54	25	90	1,540
EWS FS3CS12	12.0	4.8	9.0	12.0	36.0	48.0	49.2	31	31	97	1,110
EWS FD3CS12	24.0	4.8	18.0	24.0	72.0	96.0	49.2	66	31	97	2,220
EWS FS3CS18	18.0	7.2	13.5	18.0	54.0	72.0	70.3	37	37	99	1,510
EWS FD3CS18	36.0	7.2	27.0	36.0	108.0	144.0	70.3	78	37	99	3,020
EWS FS3CS24	24.0	9.6	18.0	24.0	72.0	96.0	96.3	43	43	110	2,280
EWS FD3CS24	48.0	9.6	36.0	48.0	144.0	192.0	96.3	90	43	110	4,560
EWS FS3CS32	32.0	12.8	24.0	32.0	96.0	128.0	125.3	49	49	107	2,800
EWS FD3CS32	64.0	12.8	48.0	64.0	192.0	256.0	125.3	102	49	107	5,600

EXCALIBUR 3” TRIPLEX & QUADPLEX PROGRESSIVE CHEMICAL REMOVAL FILTER SPECIFICATIONS



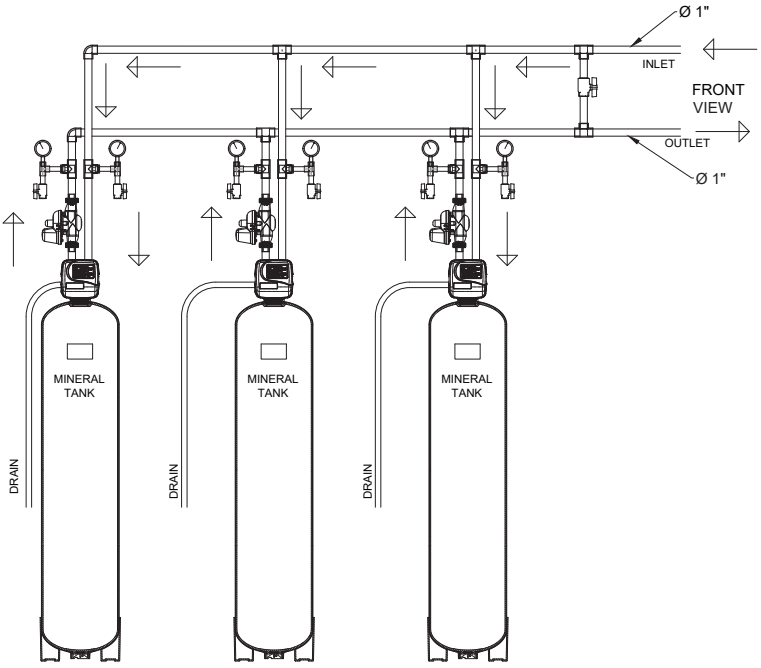
Triplex & Quadplex Fully Automatic Electronic Demand Industrial Chemical Removal Filters

- Flow Rates up to 512 USGPM
- System designs up to 4 vessels
- External Electronic Flow Meter
- Fully adjustable 9 cycle valve
- Progressive flow on demand filtered water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differiential
- Triplex & Quad Chemical Removal Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

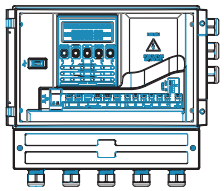
CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)						APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Chloramine Removal	TOC Removal	Chlorine Removal	Peak	Backwash	L	W	H	
EWS FT3CS8	24.0	3.2	18.0	24.0	72.0	96.0	31.5	83	25	90	2,310
EWS FQ3CS8	32.0	3.2	24.0	32.0	96.0	128.0	31.5	112	25	90	3,080
EWS FT3CS12	36.0	4.8	27.0	36.0	108.0	144.0	49.2	101	31	97	3,330
EWS FQ3CS12	48.0	4.8	36.0	48.0	144.0	192.0	49.2	136	31	97	4,440
EWS FT3CS18	54.0	7.2	40.5	54.0	162.0	216.0	70.3	119	37	99	4,530
EWS FQ3CS18	72.0	7.2	54.0	72.0	216.0	288.0	70.3	160	37	99	6,040
EWS FT3CS24	72.0	9.6	54.0	72.0	216.0	288.0	96.3	137	43	110	6,840
EWS FQ3CS24	96.0	9.6	72.0	96.0	288.0	384.0	96.3	184	43	110	9,120
EWS FT3CS32	96.0	12.8	72.0	96.0	288.0	384.0	125.3	155	49	107	8,400
EWS FQ3CS32	128.0	12.8	96.0	128.0	384.0	512.0	125.3	208	49	107	11,200

EXCALIBUR 1” COMMERCIAL/INDUSTRIAL SYSTEM CONTROLLER PROGRESSIVE CHEMICAL REMOVAL FILTER SPECIFICATIONS



System Controller 1” Fully Automatic Multi-Tank Electronic Demand Commercial/Industrial Chemical Removal Filters



- Flow Rates up to 144 USGPM
- System designs up to 6 vessels
- Internal Electronic Flow Meters
- Fully adjustable 6 cycle valve
- Progressive flow on demand filtered water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differiential
- System Controller Chemical Removal Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

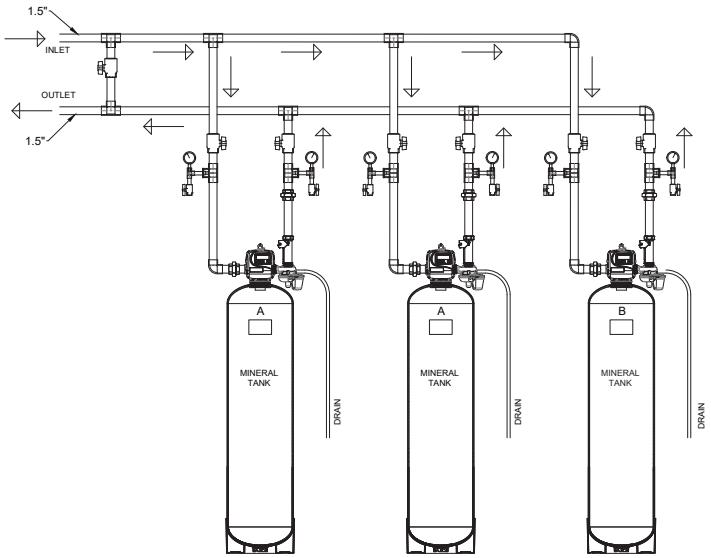
MODEL[1]	Vessel Media (ft^3)	FLOW RATE (GPM)									
		Minimum	Progressive Set Point			Progressive Peak[2]					Backwash
			Chloramine Removal	TOC Removal	Chlorine Removal	2	3	4	5	6	
EWS FSC1NCS3	3.0	1.2	2.3	3.0	9.0	24	36	48	60	72	10
EWS FSC1NCS4	4.0	1.6	3.0	4.0	12.0	32	48	64	80	96	13
EWS FSC1NCS5	5.0	2.0	3.8	5.0	15.0	40	60	80	100	120	17
EWS FSC1NCS6	6.0	2.4	4.5	6.0	18.0	48	72	96	120	144	25

MODEL[1]	APPROX. SPACE REQUIRED (in)							Vessel Shipping Weight (lbs)
	LENGTH[2]					WIDTH	HEIGHT	
	2	3	4	5	6			
EWS FSC1NCS3	34	53	72	91	110	**18**	**75**	290
EWS FSC1NCS4	38	59	80	101	122	**18**	**75**	370
EWS FSC1NCS5	42	65	88	111	134	**19**	**75**	490
EWS FSC1NCS6	48	74	100	126	152	**22**	**76**	570

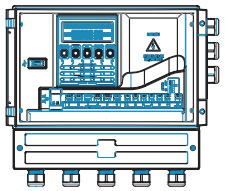
1 = **N** must be replaced by number of Vessels to order.

2 = Numbers given below denote the number of vessels.

EXCALIBUR 1.5” COMMERCIAL/INDUSTRIAL SYSTEM CONTROLLER PROGRESSIVE CHEMICAL REMOVAL FILTER SPECIFICATIONS



System Controller 1.5” Fully Automatic Multi-Tank Electronic Demand Commercial/Industrial Chemical Removal Filters



- Flow Rates up to 288 USGPM
- System designs up to 6 vessels
- External Electronic Flow Meter
- Fully adjustable 6 cycle valve
- Progressive flow on demand filtered water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differiential
- System Controller Chemical Removal Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

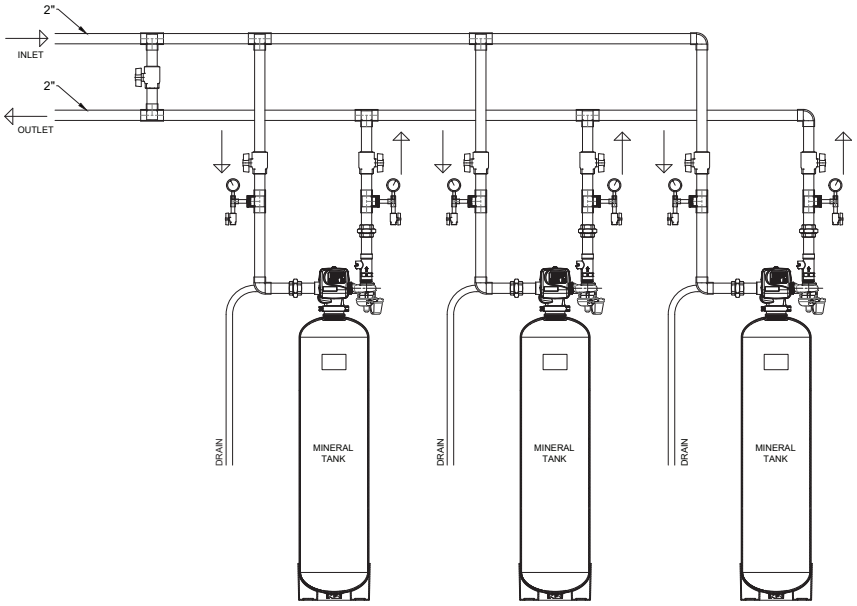
MODEL[1]	Vessel Media (ft^3)	FLOW RATE (GPM)									
		Minimum	Progressive Set Point			Progressive Peak[2]					Backwash
			Chloramine Removal	TOC Removal	Chlorine Removal	2	3	4	5	6	
EWS FSC15NCS4	4.0	1.6	3.0	4.0	12.0	32	48	64	80	96	13
EWS FSC15NCS5	5.0	2.0	3.8	5.0	15.0	40	60	80	100	120	17
EWS FSC15NCS6	6.0	2.4	4.5	6.0	18.0	48	72	96	120	144	25
EWS FSC15NCS8	8.0	3.2	6.0	8.0	24.0	64	96	128	160	192	32
EWS FSC15NCS12	12.0	4.8	9.0	12.0	36.0	96	144	192	240	288	49

MODEL[1]	APPROX. SPACE REQUIRED (in)							Vessel Shipping Weight (lbs)
	LENGTH[2]					WIDTH	HEIGHT	
	2	3	4	5	6			
EWS FSC15NCS4	44	68	92	116	140	**17**	**75**	370
EWS FSC15NCS5	48	74	100	126	152	**19**	**74**	490
EWS FSC15NCS6	52	80	108	136	164	**22**	**74**	520
EWS FSC15NCS8	54	83	112	141	170	**25**	**85**	730
EWS FSC15NCS12	66	101	136	171	206	**31**	**95**	1,065

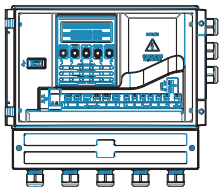
1 = **N** must be replaced by number of Vessels to order.

2 = Numbers given below denote the number of vessels.

EXCALIBUR 2"QC COMMERCIAL/INDUSTRIAL SYSTEM CONTROLLER PROGRESSIVE CHEMICAL REMOVAL FILTER SPECIFICATIONS



System Controller 2" Fully Automatic Multi-Tank Electronic Demand Commercial/Industrial Chemical Removal Filters



- Flow Rates up to 432 USGPM
- System designs up to 6 vessels
- External Electronic Flow Meters
- Fully adjustable 6 cycle valve
- Progressive flow on demand filtered water
- Four methods to initiate regeneration metered immediate, metered delayed, time clock delayed, or pressure differiential
- System Controller Chemical Removal Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Removes small and large chemical molecules
- Acid wash reduces ash content and arsenic, NSF 42 Certified
- Chemical removal to 10 micron such as chlorine, chloramine etc.

CHEMICAL REMOVAL SYSTEM SPECIFICATIONS

MODEL[1]	Vessel Media (ft^3)	FLOW RATE (GPM)									
		Minimum	Progressive Set Point			Progressive Peak[2]					Backwash
			Chloramine Removal	TOC Removal	Chlorine Removal	2	3	4	5	6	
EWS FSC2MQCNCS4	4.0	1.6	3.0	4.0	12.0	32	48	64	80	96	13
EWS FSC2MQCNCS5	5.0	2.0	3.8	5.0	15.0	40	60	80	100	120	17
EWS FSC2MQCNCS6	6.0	2.4	4.5	6.0	18.0	48	72	96	120	144	25
EWS FSC2MQCNCS8	8.0	3.2	6.0	8.0	24.0	64	96	128	160	192	32
EWS FSC2MQCNCS12	12.0	4.8	9.0	12.0	36.0	96	144	192	240	288	49
EWS FSC2MQCNCS18	18.0	7.2	13.5	18.0	54.0	144	216	288	360	432	70

MODEL[1]	APPROX. SPACE REQUIRED (in)							Vessel Shipping Weight (lbs)
	LENGTH[2]					WIDTH	HEIGHT	
	2	3	4	5	6			
EWS FSC2MQCNCS4	44	68	92	116	140	**17**	**75**	420
EWS FSC2MQCNCS5	48	74	100	126	152	**19**	**74**	540
EWS FSC2MQCNCS6	52	80	108	136	164	**22**	**74**	570
EWS FSC2MQCNCS8	54	83	112	141	170	**25**	**85**	780
EWS FSC2MQCNCS12	66	101	136	171	206	**31**	**95**	1,100
EWS FSC2MQCNCS18	78	119	160	201	242	**37**	**96**	2,550

1 = **N** must be replaced by number of Vessels to order.

2 = Numbers given below denote the number of vessels.

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