COMMERCIAL / INDUSTRIAL **IRON, SULPHUR AND MANGANESE FILTERS**

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 IRON, SULPHUR AND MANGANESE 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 125psi
- Maximum operating temperature 120˚ F
- Mineral tanks are NSF 44 & PED certified

MEDIA

- Excalibur Zentec media is an infused silica sand material
- Activation by air injection, chemical or ozone
- Effective size of 0.48mm with mesh size 20-45
- Wide pH range of 6.8 - 8.6
- Maximum temperature of 113˚F
- Minimum freeboard is 50% of bed depth
- Backwash flow rate of 15

CHEMICAL FEED PUMP

- Excalibur Chemical feed pump provides continuous chemical injection to the system
- No maintenance brushless variable speed motor
- Peristaltic pump does not have valves that can clog and requiring maintenance
- Tube failure detection system protects against from chemical spills and activates an alarm output
- Cannot lose prime and vapor lock
- Self priming against maximum line pressure
- Easy to use dial knob speed adjustment
- 15-100% Output adjustment
- No back-pressure effect on chemical flow

COMMERCIAL / INDUSTRIAL IRON, SULPHUR AND MANGANESE FILTER COMPONENTS

OZONE OXIDATION SYSTEM

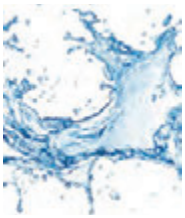
- **Excalibur Ozone generator continuously inject ozone to the system**
- **0-100% Ozone output control knob**
- **Compact, wall mounted design**
- **Low power consumption**
- **1% to 6% weight concentration**

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 IRON, SULPHUR AND MANGANESE FILTER APPLICATIONS

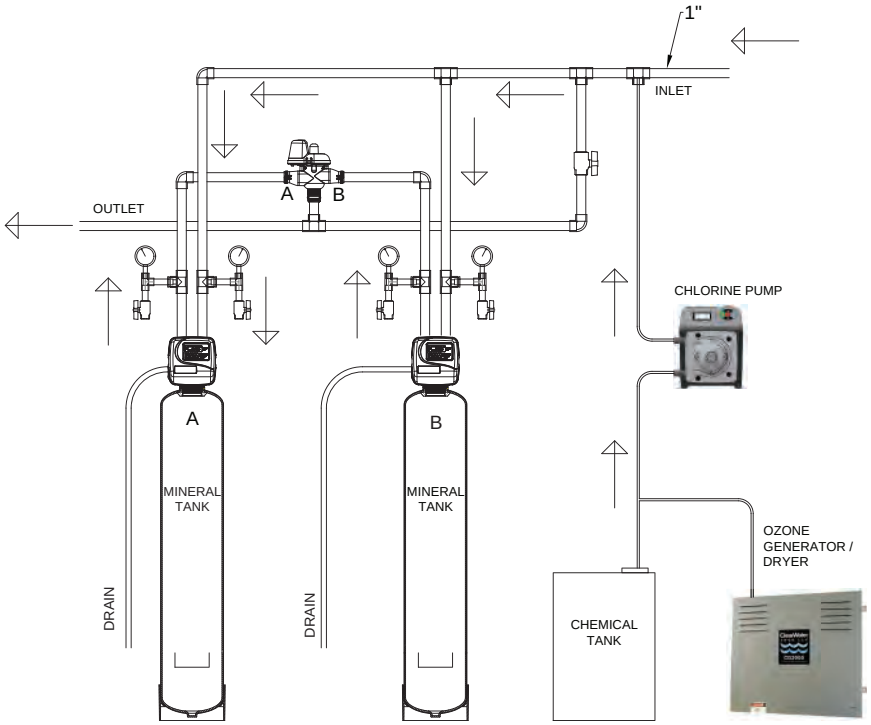
Commercial Applications

Condominium
Apartment buildings
Assisted Living Facilities
Motels
Hotels
Hospitals
Office Buildings
Agriculture
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 IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



Simplex & Duplex Fully Automatic Electronic Demand Commercial Iron, Sulphur and Manganese Filters

- Flow Rates up to 27 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 Filters utilize MAV controls to provide regeneration
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous chlorine injection or ozone injection

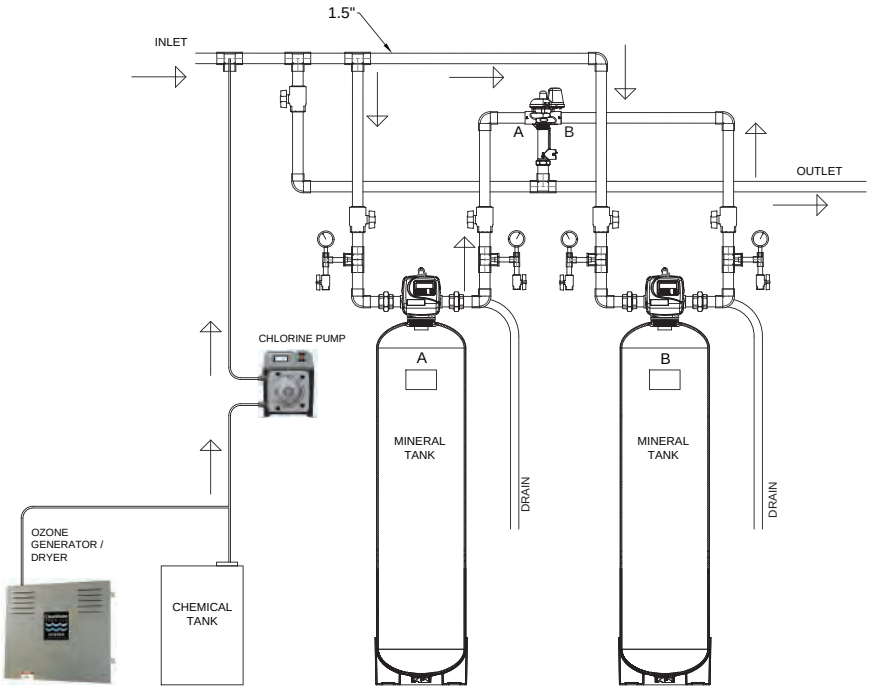
* Retention Tanks available on request for superior oxidization

FILTER SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)				APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Critical	Peak	Backwash	L	W	H	
EWS FS1ZHC1	1.0	0.9	5.0	7.0	6.5	10	18	57	135
EWS FD1ZHC1	2.0	0.9	5.0	7.0	6.5	22	18	57	275
EWS FS1ZHC1.5	1.5	1.1	7.0	8.0	7.5	11	18	63	190
EWS FD1ZHC1.5	3.0	1.1	7.0	8.0	7.5	23	18	63	385
EWS FS1ZHC2	2.0	1.6	10.0	12.0	11.0	13	18	62	265
EWS FD1ZHC2	4.0	1.6	10.0	12.0	11.0	28	18	62	535
EWS FS1ZHC2.5	2.5	1.8	11.0	14.0	13.0	14	18	64	320
EWS FD1ZHC2.5	5.0	1.8	11.0	14.0	13.0	30	18	64	645
EWS FS1ZHC3	3.0	2.1	13.0	16.0	15.0	15	18	75	400
EWS FD1ZHC3	6.0	2.1	13.0	16.0	15.0	32	18	75	805
EWS FS1ZHC4	4.0	2.8	17.0	21.0	20.0	17	18	75	515
EWS FD1ZHC4	8.0	2.8	17.0	21.0	20.0	38	18	75	1,035
EWS FS1ZHC5	5.0	3.5	21.0	27.0	26.3	19	19	75	670
EWS FD1ZHC5	10.0	3.5	21.0	27.0	26.3	42	19	75	1,350

* Retention Tanks available on request for superior oxidization

EXCALIBUR 1.5” SIMPLEX & DUPLEX IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



Simplex & Duplex Fully Automatic Electronic Demand Commercial Iron, Sulphur and Manganese Filters

- Flow Rates up to 47 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 differential
- Duplex Filters utilize MAV controls to provide regeneration
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous chlorine injection or ozone injection

* Retention Tanks available on request for superior oxidization

FILTER SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)				APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Critical	Peak	Backwash	L	W	H	
EWS FS15ZHC4	4.0	2.8	17.0	21.0	20.0	17	17	75	530
EWS FD15ZHC4	8.0	2.8	17.0	21.0	20.0	36	17	75	1,080
EWS FS15ZHC5	5.0	3.5	21.0	27.0	26.3	19	19	74	715
EWS FD15ZHC5	10.0	3.5	21.0	27.0	26.3	40	19	74	1,450
EWS FS15ZHC7	7.0	4.8	29.0	36.0	36.0	22	22	74	930
EWS FD15ZHC7	14.0	4.8	29.0	36.0	36.0	46	22	74	1,880
EWS FS15ZHC9.5	9.5	6.3	38.0	47.0	47.2	25	25	85	1,335
EWS FD15ZHC9.5	19.0	6.3	38.0	47.0	47.2	52	25	85	2,690

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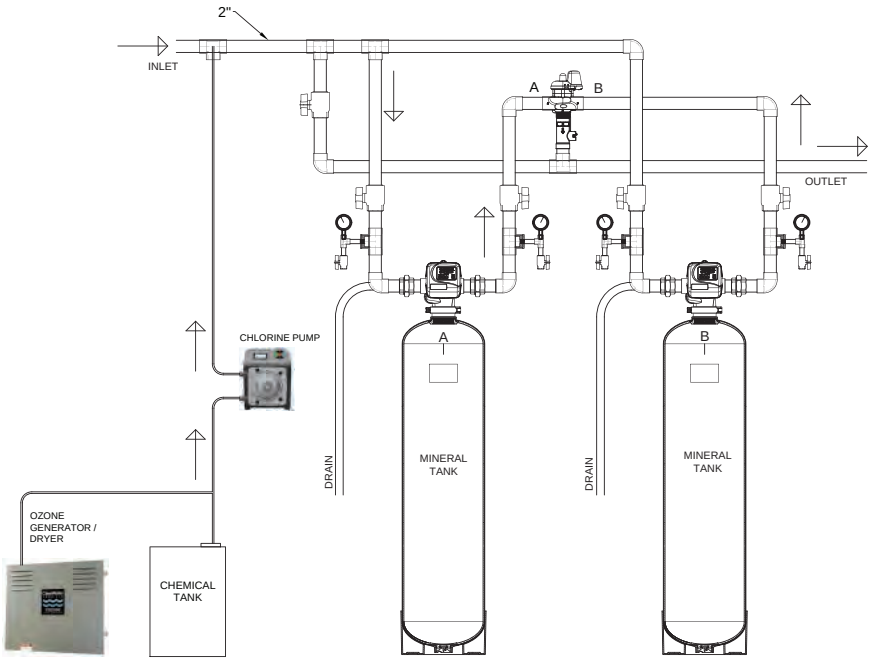
EXCALIBUR 2”QC SIMPLEX & DUPLEX IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



Simplex & Duplex Fully Automatic Electronic Demand Commercial Iron, Sulphur and Manganese Filters

- Flow Rates up to 74 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 Filters utilize MAV controls to provide regeneration
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous chlorine injection or ozone injection

* Retention Tanks available on request for superior oxidization

FILTER SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)				APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Critical	Peak	Backwash	L	W	H	
EWS FS2MQCZHC4	4.0	2.8	17.0	21.0	20.0	20	17	75	540
EWS FD2MQCZHC4	8.0	2.8	17.0	21.0	20.0	42	17	75	1,100
EWS FS2MQCZHC5	5.0	3.5	21.0	27.0	26.3	22	19	74	725
EWS FD2MQCZHC5	10.0	3.5	21.0	27.0	26.3	44	19	74	1,470
EWS FS2MQCZHC7	7.0	4.8	29.0	36.0	36.0	24	22	74	940
EWS FD2MQCZHC7	14.0	4.8	29.0	36.0	36.0	50	22	74	1,900
EWS FS2MQCZHC9.5	9.5	6.3	38.0	47.0	47.2	25	25	85	1,350
EWS FD2MQCZHC9.5	19.0	6.3	38.0	47.0	47.2	54	25	85	2,720
EWS FS2MQCZHC14	14.0	9.8	59.0	74.0	72.5	31	31	95	2,120
EWS FD2MQCZHC14	28.0	9.8	59.0	74.0	72.5	66	31	95	4,260

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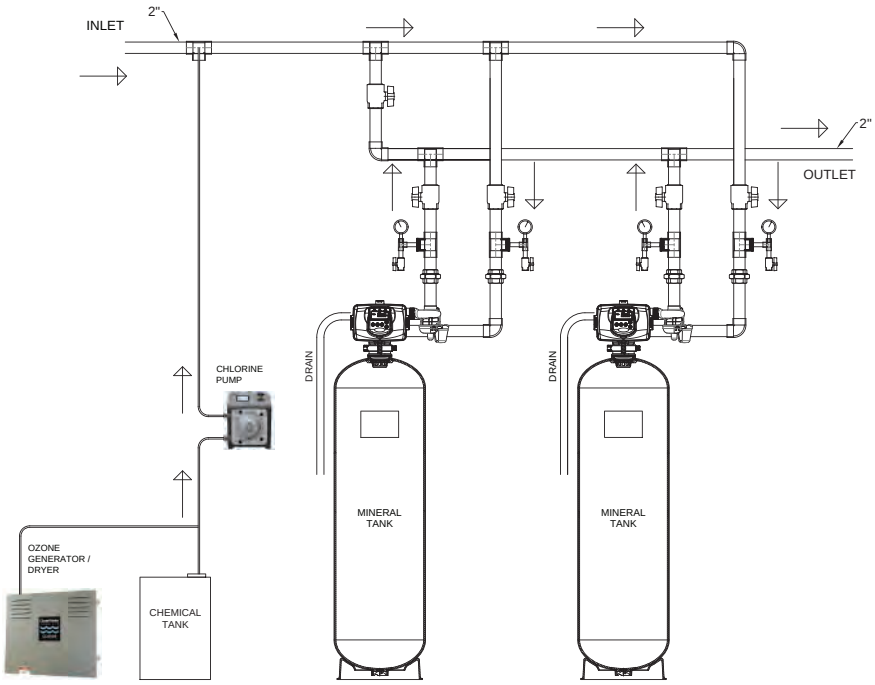
EXCALIBUR 2H" SIMPLEX & DUPLEX IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



* Retention Tanks available on request for superior oxidization

Simplex & Duplex Fully Automatic Electronic Demand Commercial Iron, Sulphur and Manganese Filters

- Flow Rates up to 212 USGPM
- Internal Electronic Flow Meter range 1.5-150 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 differential
- Duplex Filters utilize NHWB controls to provide regeneration
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous chlorine injection or ozone injection

FILTER SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)				APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Critical	Peak	Backwash	L	W	H	
EWS FS2HZHC4	4.0	2.8	17.0	21.0	20.0	17	23	83	560
EWS FD2HZHC4	8.0	2.8	34.0	42.0	20.0	36	23	83	1,140
EWS FS2HZHC5	5.0	3.5	21.0	27.0	25.0	19	23	82	745
EWS FD2HZHC5	10.0	3.5	42.0	53.0	25.0	42	23	82	1,510
EWS FS2HZHC7	7.0	4.8	29.0	36.0	36.0	22	23	85	960
EWS FD2HZHC7	14.0	4.8	58.0	72.0	36.0	48	23	85	1,940
EWS FS2HZHC9.5	9.5	6.3	38.0	47.0	46.7	25	25	89	1,370
EWS FD2HZHC9.5	19.0	6.3	76.0	94.0	46.7	54	25	89	2,760
EWS FS2HZHC14	14.0	9.8	59.0	74.0	73.2	31	31	96	2,145
EWS FD2HZHC14	28.0	9.8	118.0	148.0	73.2	66	31	96	4,310
EWS FS2HZHC20	20.0	14.1	85.0	106.0	106.0	37	37	98	2,935
EWS FD2HZHC20	40.0	14.1	170.0	212.0	106.0	78	37	98	5,890

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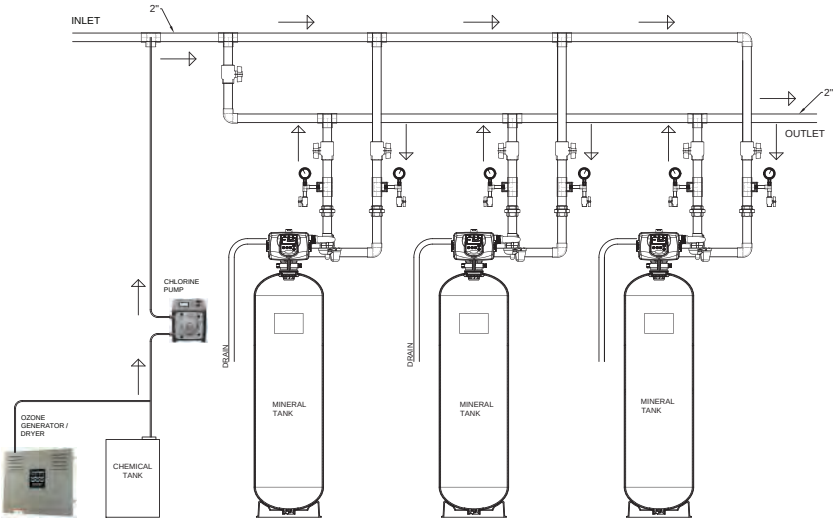
EXCALIBUR 2H" TRIPLEX & QUADPLEX PROGRESSIVE IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



Triplex & Quadplex Fully Automatic Electronic Demand Commercial Iron, Sulphur and Manganese Filters

- Flow Rates up to 424 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 differential
- Triplex and Quadplex Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous chlorine injection or ozone injection

* Retention Tanks available on request for superior oxidization

FILTER SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)				APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Critical	Peak	Backwash	L	W	H	
EWS FT2HZHC4	12.0	2.8	51.0	63.0	20.0	59	23	83	1,680
EWS FQ2HZHC4	16.0	2.8	68.0	84.0	20.0	80	23	83	2,280
EWS FT2HZHC5	15.0	4.8	64.0	80.0	25.0	65	23	82	1,680
EWS FQ2HZHC5	20.0	4.8	85.0	106.0	25.0	88	23	82	2,280
EWS FT2HZHC7	21.0	4.8	87.0	108.0	36.0	74	23	85	2,235
EWS FQ2HZHC7	28.0	4.8	116.0	144.0	36.0	100	23	85	3,020
EWS FT2HZHC9.5	28.5	6.3	114.0	141.0	46.7	83	25	89	2,880
EWS FQ2HZHC9.5	38.0	6.3	152.0	188.0	46.7	112	25	89	3,880
EWS FT2HZHC14	42.0	9.8	177.0	222.0	73.2	101	31	96	4,110
EWS FQ2HZHC14	56.0	9.8	236.0	295.0	73.2	136	31	96	5,520
EWS FT2HZHC20	60.0	14.1	255.0	318.0	106.0	119	37	98	8,810
EWS FQ2HZHC20	80.0	14.1	340.0	424.0	106.0	160	37	98	11,780

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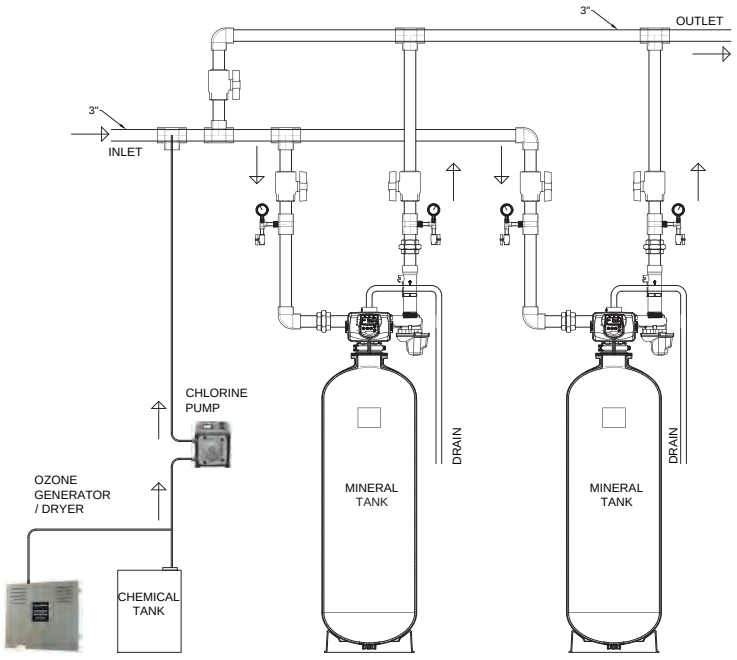
EXCALIBUR 3” SIMPLEX & DUPLEX PROGRESSIVE IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



* Retention Tanks available on request for superior oxidization

Simplex & Duplex Fully Automatic Electronic Demand Commercial Iron, Sulphur and Manganese Filters

- Flow Rates up to 377 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 differential
- Duplex Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous Chlorine injection or ozone injection

FILTER SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)				APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Critical	Peak	Backwash	L	W	H	
EWS FS3ZHC9.5	9.5	6.3	38.0	47.0	47.0	25	25	90	1,375
EWS FD3ZHC9.5	19.0	6.3	76.0	94.0	47.0	54	25	90	2,770
EWS FS3ZHC14	14.0	9.8	59.0	74.0	73.0	31	31	97	2,150
EWS FD3ZHC14	28.0	9.8	118.0	148.0	73.0	66	31	97	4,320
EWS FS3ZHC20	20.0	14.1	85.0	106.0	106.0	37	37	99	2,940
EWS FD3ZHC20	40.0	14.1	170.0	212.0	106.0	78	37	99	5,900
EWS FS3ZHC26	26.0	19.2	115.0	144.0	142.0	43	43	110	3,985
EWS FD3ZHC26	52.0	19.2	231.0	288.0	142.0	90	43	110	7,990
EWS FS3ZHC35	35.0	25.0	151.0	188.0	188.0	49	49	107	5,195
EWS FD3ZHC35	70.0	25.0	301.0	377.0	188.0	102	49	107	10,410

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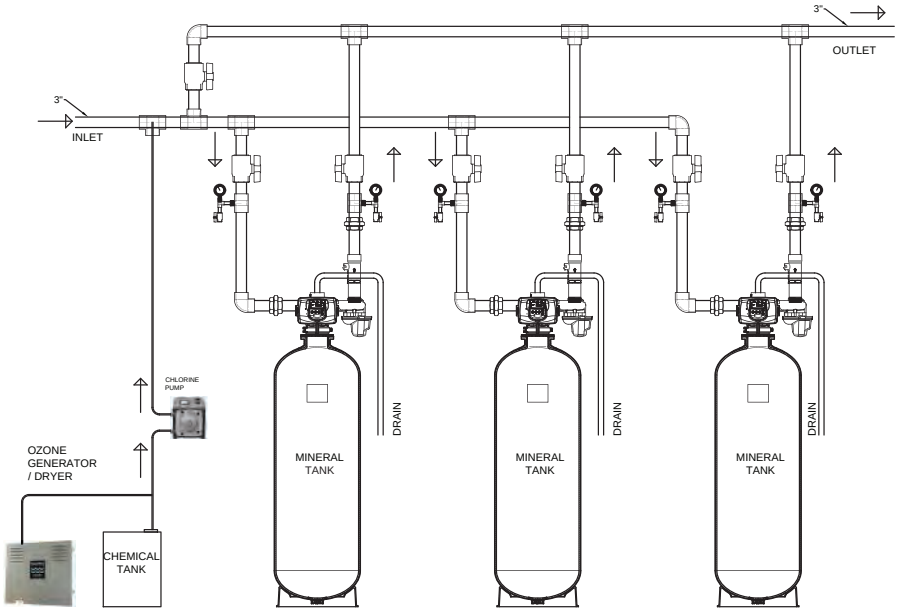
EXCALIBUR 3” TRIPLEX & QUADPLEX PROGRESSIVE IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



Triplex & Quadplex Fully Automatic Electronic Demand Industrial Iron, Sulphur and Manganese Filters

- Flow Rates up to 754 USGPM
- System design 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 differential
- Triplex and Quadplex Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous Chlorine injection or Ozone injection

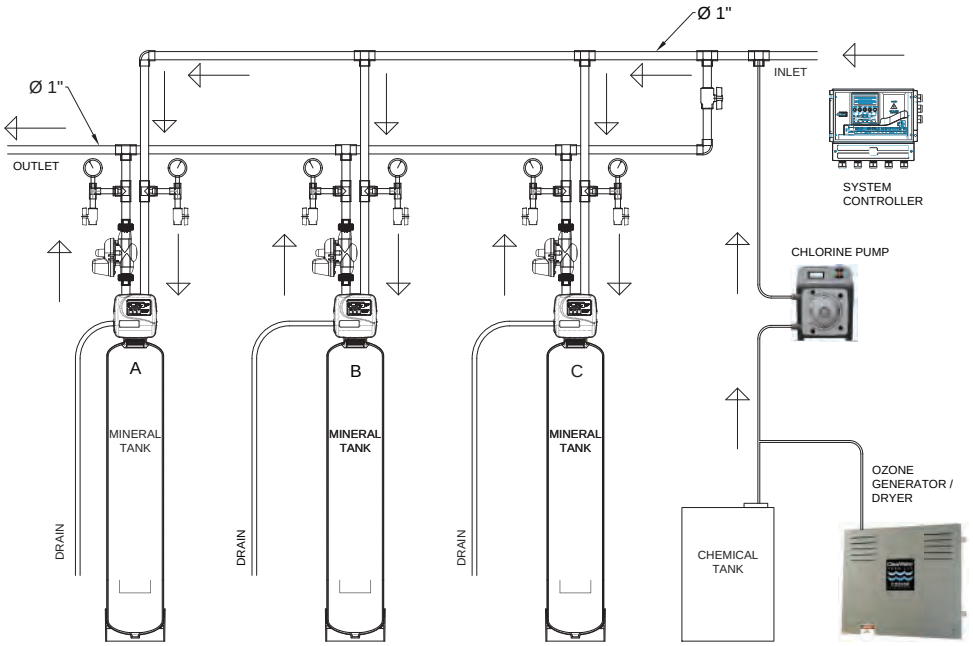
* Retention Tanks available on request for superior oxidization

FILTER SYSTEM SPECIFICATIONS

MODEL	Total Media (ft^3)	FLOW RATE (GPM)				APPROX. SPACE REQUIRED (in)			Shipping Weight lbs
		Minimum	Critical	Peak	Backwash	L	W	H	
EWS FT3ZHC9.5	28.5	6.3	114.0	141.0	47.0	83	25	90	4,125
EWS FQ3ZHC9.5	38.0	6.3	152.0	188.0	47.0	112	25	90	5,540
EWS FT3ZHC14	42.0	9.8	177.0	222.0	73.0	101	31	97	6,450
EWS FQ3ZHC14	56.0	9.8	236.0	296.0	73.0	136	31	97	8,640
EWS FT3ZHC20	60.0	14.1	255.0	318.0	106.0	119	37	99	8,820
EWS FQ3ZHC20	80.0	14.1	340.0	424.0	106.0	160	37	99	11,800
EWS FT3ZHC26	78.0	19.2	345.0	432.0	142.0	137	43	110	11,955
EWS FQ3ZHC26	104.0	19.2	462.0	576.0	142.0	184	43	110	15,980
EWS FT3ZHC35	105.0	25.0	453.0	564.0	188.0	155	49	107	15,585
EWS FQ3ZHC35	140.0	25.0	602.0	754.0	188.0	208	49	107	20,820

* Retention Tanks available on request for superior oxidization

EXCALIBUR 1” COMMERCIAL/INDUSTRIAL PROGRESSIVE IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



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

- Flow Rates up to 159 USGPM
- System design up to 6 vessels
- Internal 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 differential
- System Controller Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous Chlorine injection or Ozone injection

* Retention Tanks available on request for superior oxidization

FILTER SYSTEM SPECIFICATIONS

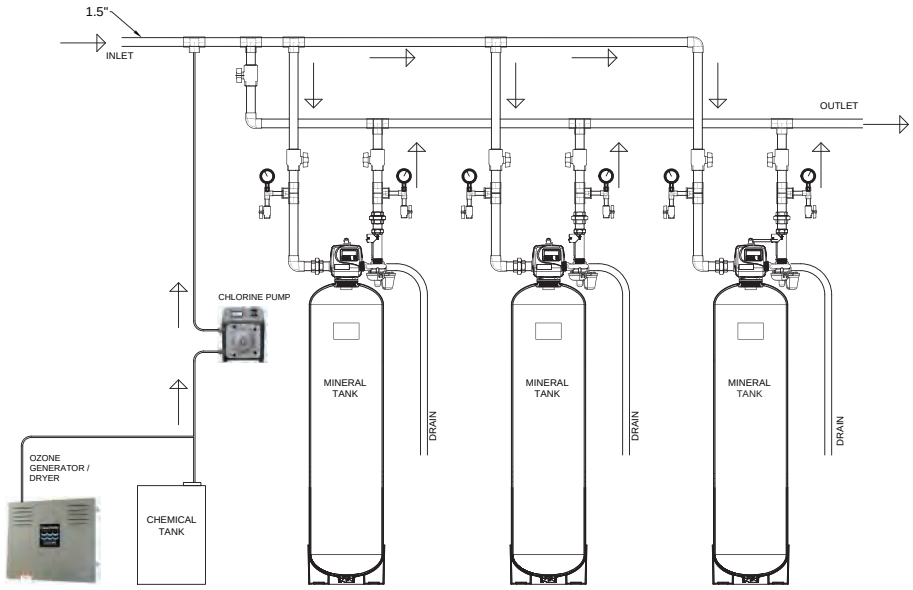
MODEL[1]	Vessel Media (ft³)	FLOW RATE (GPM)								APPROX. SPACE REQUIRED (INCHES)							VESSEL SHIPPING WEIGHT (lbs)
		Min.	Critical Set Point	Progressive Peak[2]					Backwash	LENGTH[2]					WIDTH	HEIGHT	
				2	3	4	5	6		2	3	4	5	6			
EWS FSC1NZHC1	1.0	0.9	5.3	13	20	26	33	40	6.5	24	38	52	66	80	18	57	135
EWS FSC1NZHC1.5	1.5	1.1	6.5	16	25	33	41	49	7.5	26	41	56	71	86	18	63	190
EWS FSC1NZHC2	2.0	1.6	9.4	24	35	47	59	71	11.0	30	47	64	81	98	18	62	265
EWS FSC1NZHC2.5	2.5	1.8	11.1	28	41	55	69	83	13.0	32	50	68	86	104	18	64	320
EWS FSC1NZHC3	3.0	2.1	12.8	32	48	64	80	96	15.0	34	53	72	91	110	18	75	400
EWS FSC1NZHC4	4.0	2.8	16.7	42	63	84	105	126	20.0	38	59	80	101	122	18	75	515
EWS FSC1NZHC5	5.0	3.5	21.2	53	79	106	132	159	26.3	42	65	88	111	134	19	75	670

* Retention Tanks available on request for superior oxidization

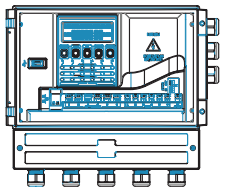
1 = **N** must be replaced by number of Vessels to order.

2 = Numbers given below denote the number of vessels.

EXCALIBUR 1.5” COMMERCIAL/INDUSTRIAL PROGRESSIVE IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



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



- Flow Rates up to 283 USGPM
- System design 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 differential
- System Controller Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous Chlorine injection or Ozone injection

* Retention Tanks available on request for superior oxidization

FILTER SYSTEM SPECIFICATIONS

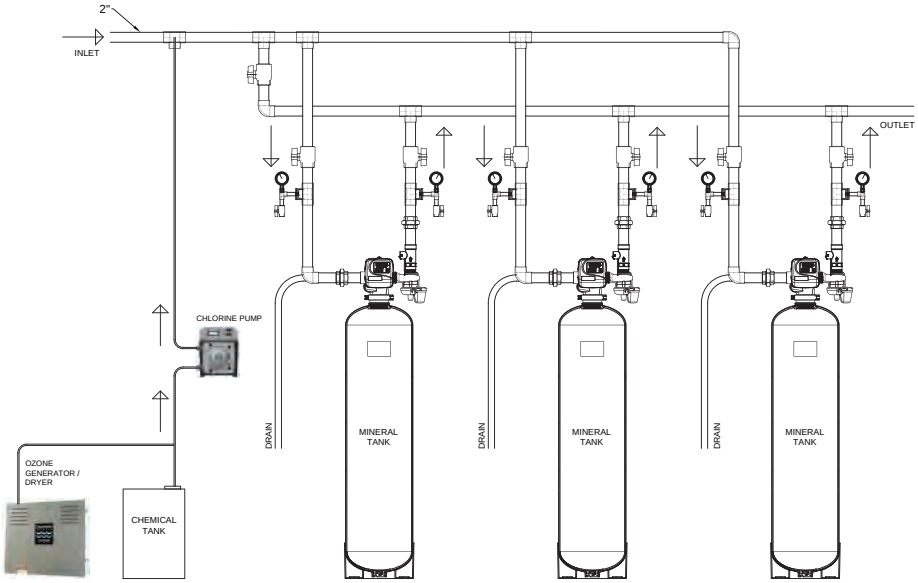
MODEL[1]	Vessel Media (ft^3)	FLOW RATE (GPM)								APPROX. SPACE REQUIRED (INCHES)							VESSEL SHIPPING WEIGHT (lbs)
		Min.	Critical Set Point	Progressive Peak[2]					Back-wash	LENGTH[2]					WIDTH	HEIGHT	
				2	3	4	5	6		2	3	4	5	6			
EWS FSC15NZHC4	4.0	2.8	16.7	42	63	84	105	126	20.0	38	59	80	101	122	17	75	530
EWS FSC15NZHC5	5.0	3.5	21.2	53	79	106	132	159	26.3	42	65	88	111	134	19	74	715
EWS FSC15NZHC7	7.0	4.8	28.8	72	108	144	180	216	36.0	48	74	100	126	152	22	74	930
EWS FSC15NZHC9.5	9.5	6.3	37.7	94	141	188	236	283	47.2	54	83	112	141	170	25	85	1335

* Retention Tanks available on request for superior oxidization

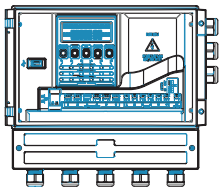
1 = **N** must be replaced by number of Vessels to order.

2 = Numbers given below denote the number of vessels.

EXCALIBUR 2”QC COMMERCIAL/INDUSTRIAL PROGRESSIVE IRON, SULPHUR AND MANGANESE FILTER SPECIFICATIONS



System Controller 2” Fully Automatic Multi-Tank Electronic Demand Commercial/ Industrial Filters



- Flow Rates up to 442 USGPM
- System design 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 differential
- System Controller Filters utilize NHWB valves to initiate regenerations and progressive flow system operations
- Iron, Hydrogen Sulphide and Manganese removal up to 10 ppm
- Utilizing continuous Chlorine injection or Ozone injection

* Retention Tanks available on request for superior oxidization

FILTER SYSTEM SPECIFICATIONS

MODEL[1]	Vessel Media (ft^3)	FLOW RATE (GPM)								APPROX. SPACE REQUIRED (INCHES)							VESSEL SHIPPING WEIGHT (lbs)
		Min.	Critical Set Point	Progressive Peak[2]					Back-wash	LENGTH[2]					WIDTH	HEIGHT	
				2	3	4	5	6		2	3	4	5	6			
EWS FSC2MQCNZHC4	4.0	2.8	16.7	42	63	84	105	126	20.0	44	68	92	116	140	17	75	540
EWS FSC2MQCNZHC5	5.0	3.5	21.2	53	79	106	132	159	26.3	48	74	100	126	152	19	74	725
EWS FSC2MQCNZHC7	7.0	4.8	28.8	72	108	144	180	216	36.0	52	80	108	136	164	22	74	940
EWS FSC2MQCNZHC9.5	9.5	6.3	37.7	94	141	188	236	283	47.2	54	83	112	141	170	25	85	1,350
EWS FSC2MQCNZHC14	14.0	9.8	58.9	147	221	294	368	442	72.5	66	101	136	171	206	31	95	2,120

* Retention Tanks available on request for superior oxidization

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

2 = Numbers given below denote the number of vessels.

EXCALIBUR
Water Systems

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