



## Series EWS 2.0" H Quadplex Commercial Activated Carbon Backwashable Filter

### STANDARD FEATURES

- ◆ 2" NPT inlet or outlet / 2 1/2" Victaulic lead free brass epoxy coated control valve.
- ◆ Electronic flow meters for each control valve accuracy plus or minus 5 percent, flow rate range 1.5 – 125 gpm, gallon range 10 – 999,000 and totalizer 1,000 – 999,999,000 gallons.
- ◆ Service flow rates to 125 gpm, peak flow rates to 150 gpm, backwash flow rates to 125 gpm.
- ◆ Fully programmable and adjustable 9 cycle control valve that control backwash, slow/fast rinse, 2nd backwash and service, up to 9 cycles.
- ◆ Progressive flow, parallel flow, alternating.
- ◆ System designs up to 4 vessels.
- ◆ Cycles of operation – Cycle One backwash 1 – 95 minutes or off, Cycle Two fast rinse 1 – 180 minutes or off, Cycle Three slow rinse 1 – 95 minutes or off, Cycle Four fast rinse 1 – 95 minutes or off, Cycle Five hold (service) 1 – 480 minutes or off, four additional cycles for additional backwash, slow rinse, fast rinse.
- ◆ Four methods to initiate regeneration, meter immediate, meter delayed, time clock delayed or pressure differential.
- ◆ 2" water distribution system utilizing hub and laterals for maximum flow rates.
- ◆ Operating pressure 20 – 125 psi / 138 – 861 kpa.
- ◆ Operating temperature 40°F - 110°F (5°C - 44°C).
- ◆ Solid state microprocessor c/w removal front panel, digital display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (totalizer). All 9 cycles are adjustable in second level diagnostics for desired flow rates in each cycle.
- ◆ Double backwash for optimum regeneration cleaning ability.
- ◆ 24 volt output AC transformer, 12 or 24 hour time clock.
- ◆ 2" inlet and outlet motorized bypass valves.
- ◆ 1 – 28 day override on control valve program.

## Excalibur Water EWS 2.0" H Quadplex Commercial Activated Carbon Backwashable Filter - SPECIFICATIONS

Model	Filter Tank Dia. X Ht.	Pipe Size Inlet/Outlet	Approx. Space Required Ins - (mm)				Shipping Weight Single Lbs (Kg.)	Shipping Weight Quadplex Lbs (Kg.)
			Height	Depth	Width			
	Inches (mm)	Inches (mm)			Single	Quadplex		
EWS FQ2HC12	30 x 72 (762 x 1828)	2 x 2 (50 x 50)	90 (2286)	36 (914)	36 (914)	168 (4267)	800 (363)	3200 (1454)
EWS FQ2HC18	36 x 72 (914 x 1828)	2 x 2 (50 x 50)	90 (2286)	42 (1066)	42 (1066)	192 (4876)	1232 (560)	4928 (2240)
EWS FQ2HC24	42 x 72 (1066 x 1828)	2 x 2 (50 x 50)	90 (2286)	48 (1219)	48 (1219)	216 (5486)	2098 (953)	8392 (3814)
EWS FQ2HC32	48 x 72 (1219 x 1828)	2 x 2 (50 x 50)	90 (2286)	54 (1371)	54 (1371)	240 (6096)	2540 (1154)	10,160 (4618)

Model	Media Volume Per Vessel Cubic Ft (Cubic Meters)	Total Media Capacity Cubic Ft (Cubic Meters)	Dechlorination Per Vessel		Organics Absorption Per Vessel		BKW GPM (LPS)
			Continuous Flow Rate 15 Psi Pressure Drop (LPS)	Peak Flow Rate (LPS)	Continuous Flow Rate 15 Psi Pressure Drop (LPS)	Peak Flow Rate (LPS)	
EWS FQ2HC12	12 (.336)	24 (.67)	50 (3.15)	75 (4.73)	25 (1.58)	45 (2.84)	45 (2.84)
EWS FQ2HC18	18 (.50)	36 (1.00)	70 (4.42)	100 (6.30)	35 (2.21)	50 (3.15)	70 (4.42)
EWS FQ2HC24	24 (.67)	48 (1.34)	100 (6.30)	130 (8.20)	50 (3.15)	70 (4.42)	100 (6.30)
EWS FQ2HC32	32 (.89)	64 (1.79)	120 (7.57)	150 (9.46)	65 (4.10)	90 (5.68)	122 (7.70)

**EWS GRANULAR ACTIVATED CARBON** IS DESIGNED FOR REDUCTION OF TASTE, ODOURS, AND DISSOLVED ORGANIC CHEMICALS. EWS ACTIVATED CARBON IS MANUFACTURED FROM SELECT GRADES OF BITUMINOUS COAL TO PRODUCE A HIGH DENSITY, DURABLE GRANULAR PRODUCT CAPABLE OF WITHSTANDING THE ABRASION AND DYNAMICS ASSOCIATED WITH REPEATED HYDRAULIC TRANSPORT, BACKWASHING AND MECHANICAL HANDLING. ACTIVATION IS CAREFULLY CONTROLLED TO PRODUCE EXCEPTIONALLY HIGH INTERNAL SURFACE AREA WITH OPTIMUM PORE SIZE FOR THE ADSORPTION OF A BROAD RANGE OF HIGH AND LOW MOLECULAR WEIGHT ORGANIC CONTAMINANT'S. TO OBTAIN MAXIMUM EFFICIENCY OF THE ACTIVATED CARBON IN THE ADSORPTION PROCESS, IT IS DESIRABLE TO HAVE THE GREATEST POSSIBLE SURFACE AREA IN THE SMALLEST PRACTICAL VOLUME. THIS IS NECESSARY BECAUSE THE RATE OF ADSORPTION IS PROPORTIONAL TO THE AMOUNT OF SURFACE AREA OF THE ADSORBING MEDIUM MEDIA. EWS HAS A SURFACE AREA OF 850 SQUARE METERS PER GRAM. THIS RESULTS IN HIGH EFFICIENCY AND GREATER SYSTEM ECONOMY. EWS ACTIVATED CARBON REQUIRES PERIODIC BACKWASHING TO ELIMINATE ACCUMULATED SUSPENDED MATTER AND TO RE- GRADE THE FILTER BED. EWS ACTIVATED CARBON HAS AN EXTREMELY HIGH CAPACITY BUT MUST BE REPLACED WHEN THE FILTER BED LOSES THE CAPACITY FOR REDUCTION OF TASTE, ODOUR AND ORGANICS.

**Canada**

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