



Series EWS 1" Simplex Commercial Activated Carbon Backwashable Filter

STANDARD FEATURES

- ◆ 1" NPT inlet and outlet top mounted composite electronic control valve.
- ◆ Electronic flow meter with accuracy within plus or minus 5 percent, flow rate range 0.25 to 27 gpm. Gallons range 20 to 50,000 gallons 1000 to 9,999,000 totalizer.
- ◆ Service flow rate up to 27 gpm, peak flow rate up to 32 gpm, backwash flow rates up to 27 gpm.
- ◆ Fully adjustable 6 cycle controls backwash, slow/fast rinse and service. 2 additional cycles for backwash or rinse.
- ◆ Cycles of operation. Cycle One backwash 6-12 minutes, Cycle Two slow rinse 45-75 minutes, Cycle Three second backwash 3-12 minutes, Cycle Four fast rinse 3-8 minutes, Cycle Five service.
- ◆ Four methods to initiate regeneration, meter immediate, meter delayed, time clock delayed or pressure differential.
- ◆ 1" water distribution system utilizing single point distributor or hub and laterals for maximum flowrates.
- ◆ Operating pressure 20-125 psi / 138-861 kpa, operating temperature 40°F - 110°F (5°C - 44°C).
- ◆ Solid state microprocessor c/w display for time of day, days until next regeneration, volume remaining, current flow rate and total volume used (totalizer).
- ◆ Double backwash for optimum regeneration cleaning ability.
- ◆ 12 volt output AC transformer. 12 or 24 hour time clock.
- ◆ 1 - 28 days override on control valve programming.
- ◆ 3/4 or 1" MPT drain line.

Excalibur Water EWS 1" Simplex Commercial Activated Carbon Backwashable Filter - SPECIFICATIONS

Model	Filter Tank Dia. X Ht.	Pipe Size Inlet/Outlet	Approx. Space Required Ins - (mm)				Shipping Weight	Shipping Weight
	Inches (mm)	Inches (mm)	Height	Depth	Width Single Duplex		Single Lbs (Kg.)	Duplex Lbs (Kg.)
EWS F1C3	14 x 65 (355 x 1651)	1 x 1 (25 x 25)	73 (1854)	20 (508)	26 (660)	52 (1320)	350 (159)	700 (318)
EWS F1C4	16 x 65 (406 x 1651)	1 x 1 (25 x 25)	73 (1854)	22 (558)	28 (711)	56 (1422)	425 (193)	850 (386)
EWS F1C5	21 x 62 (533 x 1574)	1 x 1 (25 x 25)	70 (1778)	27 (685)	33 (838)	66 (1676)	525 (238)	1050 (477)
EWS F1C6	21 x 62 (533 x 1574)	1 x 1 (25 x 25)	70 (1778)	27 (685)	33 (838)	66 (1676)	550 (250)	1100 (500)
EWS F1C7	21 x 62 (533 x 1574)	1 x 1 (25 x 25)	70 (1778)	27 (685)	33 (838)	66 (1676)	575 (261)	1150 (522)

Model	Media Volume Per Vessel Cubic Ft (Cubic Meters)	Total Media Capacity Cubic Ft (Cubic Meters)	Decoloration 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 F1C3	3 (.084)	6 (.168)	10 (.63)	14 (.88)	5 (.31)	8 (.50)	11 (0.69)
EWS F1C4	4 (.112)	8 (.224)	12 (.75)	16 (1.00)	8 (.50)	12 (.75)	13 (0.82)
EWS F1C5	5 (.14)	10 (.28)	15 (.94)	19 (1.19)	10 (.63)	14 (.88)	15 (0.94)
EWS F1C6	6 (.168)	12 (.336)	18 (1.13)	22 (1.38)	12 (.75)	16 (1.00)	17 (1.07)
EWS F1C7	7 (.196)	14 (.392)	21 (1.32)	25 (1.57)	16 (1.00)	21 (1.32)	20 (1.26)

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.

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