Biwater

Seawater & Brackish Water Pretreatment

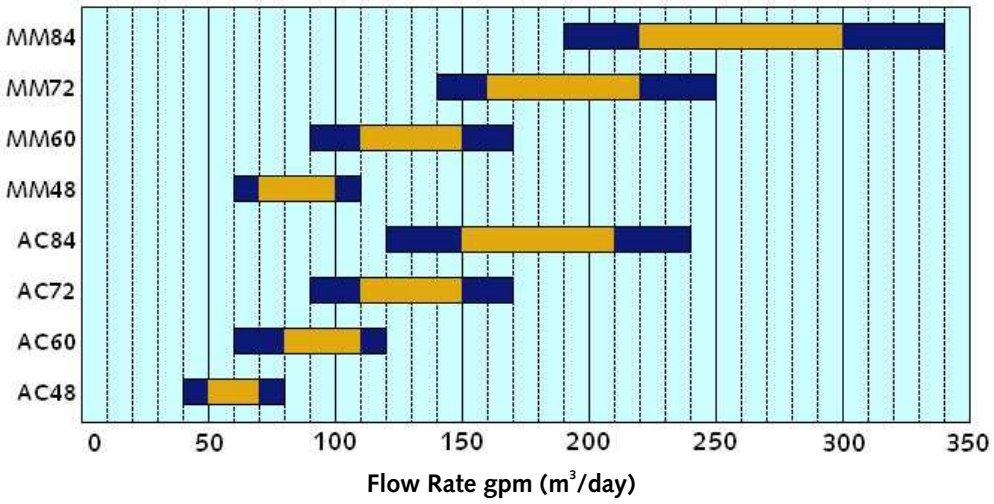
270-1650 m³/day (50–300 gpm)

'multi-media and activated carbon filters'

Features

- Epoxy-lined carbon steel tanks, designed to ASME code at 100 psig (code stamp optional)
- Resilient seated butterfly service valves with stainless steel disc and stem; air actuated / spring-to-close
- Schedule 80 PVC face-piping
- 4-inch media clean out port on side of tank
- Sight glass on backwash line
- GE Aquamatic 962 stager for backwash sequence control
- GE Aquamatic controller includes communication switch for downstream equipment
- Manual or time-initiated automatic backwash
- Instrumentation: Service/backwash paddlewheel flow sensor, pre- / post- filter pressure gauges

Multi-media and Activated Carbon Filter Flow Range Chart



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Multi-Media Specifications

Model	Connections (inches)	Tank (inches)	Overall Height (inches)	Flow** gpm (m^3/day)			Media Volume (cubic feet)					
				Min	Max	Backwash*	Anthracite	Silica Sand	Garnet	Fine Gravel	Med Gravel	Coarse Gravel
MM48	3	48x72	122	60 (327)	110 (600)	180 (981)	18	12	6	2	2	Top of Under Drain
MM60	3	60x72	125	95 (518)	170 (927)	285 (1553)	28	19	9	3	3	
MM72	4	72x72	130	140 (763)	250 (1363)	415 (2262)	41	27	14	5	5	
MM84	4	84x72	134	190 (1036)	340 (1853)	565 (3080)	56	38	19	7	7	

* Backwash flow rates are for 15 gpm/ft^2 loading at 60°F. Flow rate will increase with increase in water temperature

** Flow rates shown are for MMF systems with no coagulant addition/air scour. Flow rates with coagulant must be reduced to 3-5 gpm/ft^2

Activated Carbon Filter Specifications

Model	Connections (inches)	Tank (inches)	Overall Height (inches)	Flow** (gpm)			Media Volume (cubic feet)	
				Min	Max	Backwash*	Activated Carbon	Coarse Gravel
AC48	3	48x72	122	40 (218)	80 (436)	165 (900)	18	Top of Under Drain
AC60	3	60x72	125	60 (327)	120 (654)	255 (1390)	28	
AC72	4	72x72	130	85 (463)	170 (927)	370 (2017)	41	
AC84	4	84x72	134	120 (654)	240 (1308)	510 (2780)	56	

* Backwash flow rates are for 13.5 gpm/ft^2 loading at 60°F. Flow rate will increase with increase in water temperature

** Based on Chlorine removal only. For TOC removal, the max flow should be reduced by half.

Summary

The Biwater AEWT brackish water pretreatment line is designed for durable operation, easy installation and straightforward control. It is ideal for your industrial filtration needs with epoxy-lined carbon steel vessels, robust materials of construction, and various configuration options to suit your specific application needs.

The units perfectly compliment the Biwater AEWT Reverse Osmosis Series line of systems.

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