

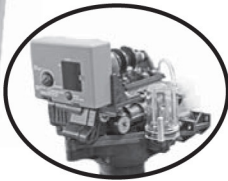


255-460i SERIES

**MAKING WATER SOFT FOR OVER 30 YEARS
NOTHING BEATS THE FEEL OF LUXURY**

THE AUTOMATIC WATER CONDITIONER THAT GIVES YOU MORE!

AVMP SERIES



- Simple valve design and rugged construction ensure years of trouble free performance
- System adapts to your conditioned water needs based on actual water usage. Automatically regenerates the system at just the right time, saving you salt, water, and money.
- Monitors actual water usage with accurate turbine meter
- Self-adjusting reserve capacity to match your family's lifestyle
- System automatically operates at maximum efficiency with simple, reliable programming
- Solid-state electronics for long, dependable operation
- Safe 12-volt wall-mount transformer
- 5 year warranty - complete system

AVCM MP SERIES



MODELS

Model Specifications	AVMP Series					AVCM-MP Series	
	AVMP-24	AVMP-32	AVMP-40	AVMP-48	AVMP-64	AVCMMP-24 Cabinet Model	AVCMMP-32 Cabinet Model
Nominal Maximum Exchange Capacity	24,000gr	32,000gr	40,000gr	48,000gr	64,000gr	24,000gr	32,000gr
Resin (cubic foot)	.75	1.0	1.25	1.50	2.0	.75	1.0
Rated Service Flow Pressure Loss (psi)	8.0 gpm @▲14.5	9.6 gpm @▲17.0	10.0 gpm @▲15.9	9.6 gpm @▲16.9	10.0 gpm @▲18.9	8.0 gpm @▲14.5	9.6 gpm @▲17.0
Pipe Size In / Out (inches)	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Mineral Tank Size (inches)	8 x 44	9 x 48	10 x 47	10 x 54	12 x 52	8 x 35	10 x 35
Brine Tank Size W x D x H (inches) Salt Storage	15 x 17 x 37 300 lbs.	15 x 17 x 37 300 lbs.	15 x 17 x 37 300 lbs.	15 x 17 x 37 300 lbs.	18 x 40 350 lbs.	13.5 x 22.5 x 44 225 lbs.	13.5 x 22.5 x 44 225 lbs.
Operating Temperature	33°F Min. 120°F Max.	33°F Min. 120°F Max.	33°F Min. 120°F Max.	33°F Min. 120°F Max.	33°F Min. 120°F Max.	33°F Min. 120°F Max.	33°F Min. 120°F Max.
Operating Pressure (psi)	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.

SOLD BY:

PRODUCTS OF





255-460TC SERIES

**MAKING WATER SOFT FOR OVER 30 YEARS
NOTHING BEATS THE FEEL OF LUXURY**

THE WATER CONDITIONER THAT GIVES YOU MORE!

AV Series



- Simple valve design and rugged construction ensure years of trouble free performance
- Value priced, reliable control
- 30 day regeneration cycle
- Easy operation and programming
- Safe 12-volt wall-mount transformer
- Seamless one-piece fiberglass round resin tank
- Blow molded one-piece brine tank with injection molded cover
- High capacity resin
- 5 year warranty - complete system

AVCM Series

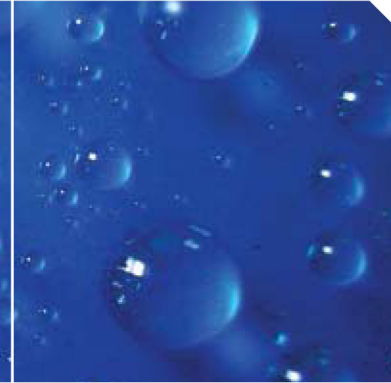


Model Specifications	MODELS						
	AV Series					AVCM Series	
	3AV	4AV	4AV	5AV	6AV	24AVCM Cabinet Model	32AVCM Cabinet Model
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Operating Pressure (psi)	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.	20 Min. 100 Max.

SOLD BY:

PRODUCTS OF





255 Control Valves

Pentair Water® offers a full range of Autotrol® Control Valves to meet all residential water conditioning applications.

Logix™ Series

740 Time Clock

- Simple, economic electronic time clock (chronometric)
- 7- or 99-day regeneration setting
- High efficiency regeneration sequence
- 12-volt operation
- Filter or conditioner setting in one control
- Operates 255, 263, 268 with one controller

742 Time Clock

Same features as the 740 Time Clock, plus:

- Fully programmable cycle times
- Salt setting in 1-pound increments
- Optional no-salt detector
- Operates 255, 263, 268, 278, and Magnum® IT with one controller



760 Demand

- Simple, economic electronic demand (volumetric)
- Calendar override
- 12-volt operation
- 28-day variable reserve
- High efficiency regeneration sequence
- Automatic capacity calculations
- Operates 255, 263, 268 with one controller

762 Demand

Same features as the 760, plus:

- Fully programmable cycle times
- Salt setting in 1-pound increments
- Optional no-salt detector
- Operates 255, 263, 268, 278, and Magnum IT with one controller

764 Demand

Same features as the 762, plus:

- Multi-tank applications (twin alternating, multi-tank parallel)
- Control lockout
- Remote regeneration

Specifications

Electrical

Controller Operating Voltage	12 Volt – AC (Requires use of Pentair Water®-supplied transformer)
Input Supply Frequency	50 or 60 Hz (Controller configuration dependent)
Motor Input Voltage	12 Volt – AC
Controller System Power Consumption	3 Watts average

Transformer – All Controllers

All Controllers require the use of a Pentair Water-supplied transformer.

Transformer Output Voltage	12 Volt – AC 400mA								
Transformer Input Options	115 Volt – AC 50/60 Hz; 230 Volt – AC 50/60 Hz; 100 Volt – AC 50/60 Hz								
Transformer Plug Options	<table> <tr> <td>Indoor North American Plug </td> <td>Taiwan/Korea Plug </td> </tr> <tr> <td>Outdoor North American (UL Listed for outdoor use) </td> <td>Australian Plug </td> </tr> <tr> <td>Japanese Plug </td> <td>United Kingdom Plug </td> </tr> <tr> <td></td> <td>Mainland Europe Plug </td> </tr> </table>	Indoor North American Plug 	Taiwan/Korea Plug 	Outdoor North American (UL Listed for outdoor use) 	Australian Plug 	Japanese Plug 	United Kingdom Plug 		Mainland Europe Plug 
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Additional transformers may be available – call for more information.

Design Specifications/Ratings

Valve Body	Glass-filled thermoplastic – NSF Listed material
Rubber Components	Compounded for cold water – NSF Listed material
Valve Materials Certification	WQA Gold Seal Certified to ORD 0902 and NSF/ANSI 44 Rated component for material safety
Weight (Valve with Control)	4 lbs (1.8 kg)
Recommended Operating Pressure	20 - 120 psi (1.38 - 8.27 bar)
Canada	20 - 100 psi (1.38 - 6.89 bar)
Hydrostatic Test Pressure	300 psi (20.69 bar)
Water Temperature	35° - 100°F (2° - 38°C)
Ambient Temperature*	35° - 120°F (2° - 48.9°C)

*Recommend use of outdoor cover for direct sunlight applications.

Options

Turbine for Demand Units	Standard manifold, 1-inch Autotrol® Turbine
Bypass Valve	Thermoplastic, 1-inch flow path, 1/2-inch (13mm) NPT male, drain
<i>Bypass Inlet-Outlet Fitting Kits:</i>	
Copper, Sweat Tube Adapter	1-inch or 3/4-inch (25 mm or 19 mm)
CPVC, Solvent Weld Tube Adapter	1-inch or 3/4-inch (25 mm or 19 mm)
Plastic NPT or BSPT Pipe Adapter	1-inch male or 3/4-inch male (25 mm or 19 mm)
Stainless steel NPT or BSPT Pipe Adapter	1-inch male or 3/4-inch male (25 mm or 19 mm)
Brine Refill Controls	.33 gpm (1.25 Lpm) fixed .14 gpm (.53 Lpm) fixed – optional for small tank applications
Compatible with Regenerants/Chemicals	Sodium chloride, potassium chloride, potassium permanganate, sodium bisulfite [†] , sodium hydroxide [†] , hydrochloric acid [†] , chlorine ^{††} and chloramines ^{††}

[†]See owners manual for specific concentrations. ^{††}Valve for use on potable water supply.

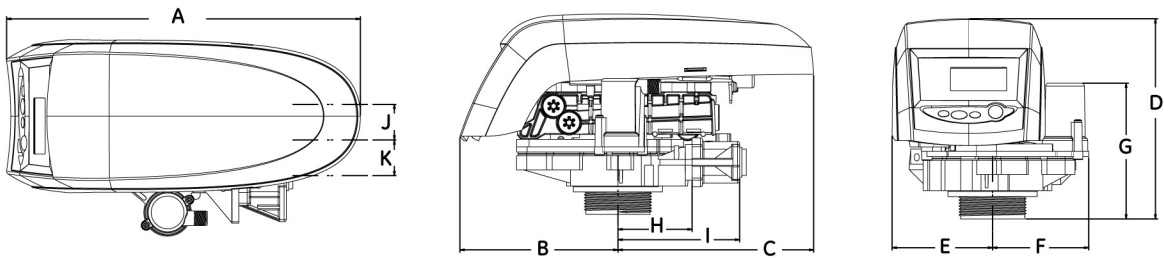


Dimensions

Valve Connections

Tank Thread	2-1/2-inches – 8, male	Brine Line	1/4-inch or 3/8-inch NPT, male; air check built into valve
Inlet/Outlet Manifold (brass or thermoplastic)	1-inch NPT or BSPT, female 3/4-inch NPT or BSPT, female 3/4-inch NPT or BSPT, male (thermoplastic) 1/2-inch NPT or BSPT, male (thermoplastic)	Distributor Tube (diameter)	1.050 inches (27 mm) or 13/16-inch (20.6 mm)
Drain Line	1/2-inch (manifold dependent)	Distributor Tube (length)	1-1/8 ± 1/8 inches (29 mm ± 3 mm) above top of tank

Outline Dimensions



Units	A	B	C	D	E	F	G	H	I	J	K
inches	14.9	6.6	8.2	8.4	4.2	4.0	5.7	3.1	5.1	1.5	1.5
cm	37.8	16.8	20.8	21.3	10.7	10.2	14.5	7.9	13.0	3.8	3.8

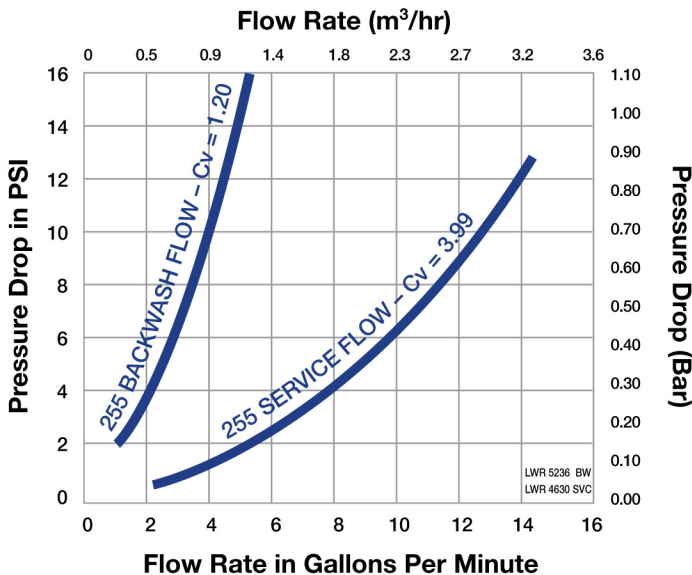
Performance

Flow Rates (Valve Only)

Service @ 15 psi (1.03 bar) drop	15.5 gpm (3.52 m ³ /h)
Backwash @ 25 psi (1.72 bar) drop	6.0 gpm (1.36 m ³ /h)
Service	Cv = 3.99 (Kv = 3.4)
Backwash	Cv = 1.20 (Kv = 1.0)

Note: Tested with a 3/4-inch brass manifold

Logix 764 Performance Flow Rate Characteristics



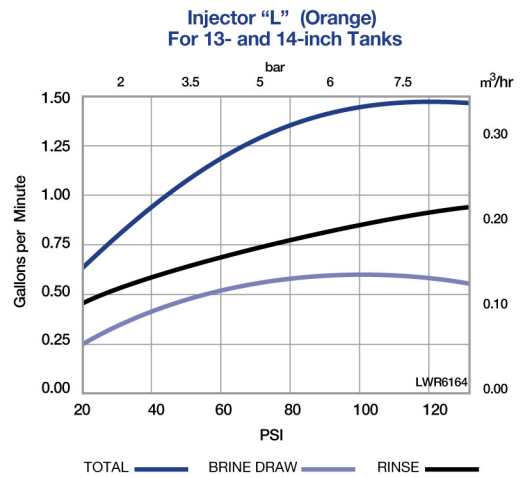
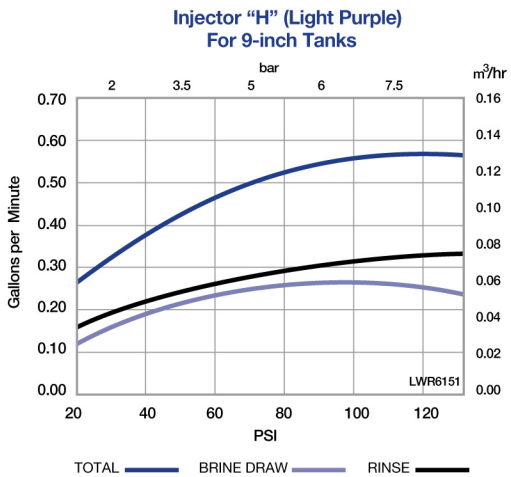
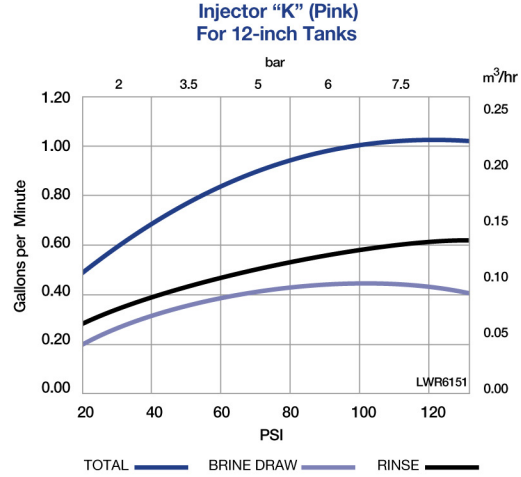
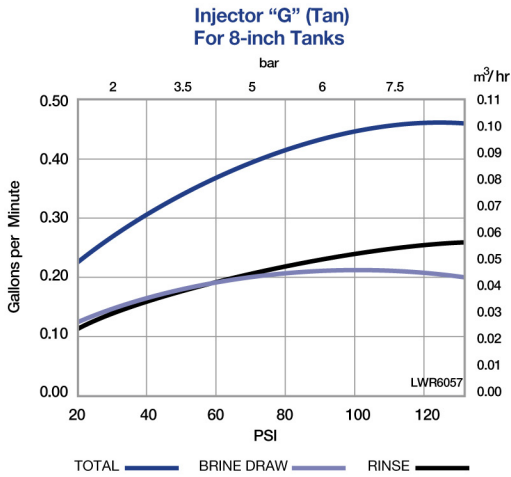
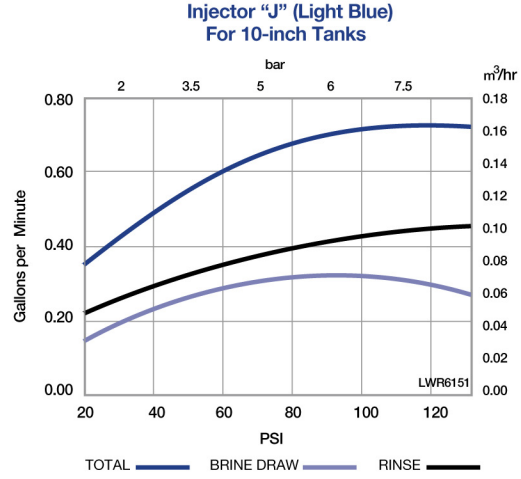
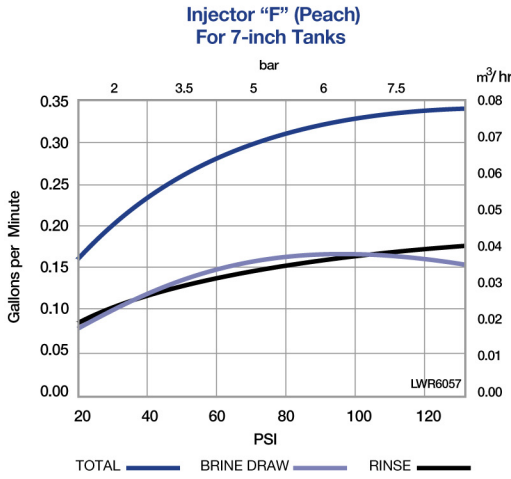
Backwash Flow Control Table

Backwash Number*	Flow Rate (gpm)	Flow Rate (lpm)
7	1.3	4.9
8	1.7	6.4
9	2.2	8.3
10	2.7	10.2
12	3.9	14.76
13	4.5	17.0
14	5.3	20.0

*Backwash flow controls sized for 5.0 gpm/ft².

Injector* Performance

Logix™ Series Controllers



*New injectors for high-efficiency regeneration sequence are standard with Logix Controllers.

NOTE: Actual injector performance is dependent on the resin used, tank geometry, elevated drain, etc. This injector data was taken using an empty tank (no resin).



20580 Enterprise Avenue
Brookfield, WI 53045
Tel: 262.784.4490
Fax: 262.784.7794

5730 North Glen Park Road
Milwaukee, WI 53209
Tel: 262.238.4400
Fax: 262.238.4402

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Customer Care: 800.279.9404 www.pentairwatertreatment.com