Impression Series

Softener Water Treatment Systems

Soft water for you and your household.

- Removes hardness
- Softens household water using minimal salt and water
- Soft water prevents mineral buildup and keeps your appliances running smoothly
- Solid-state microprocessor control
- Meter monitors and self-adjusts regeneration cycles based on household trend of water use
- Easily programmed for optimum performance
- Extended lithium battery backup
- Flexible "adjustable cycle sequence" programming saves salt and water
- Advanced history and diagnostic screens
- Service Alarms

Whether you have hard municipal water or extremely hard well water, Impression Series® water softeners deliver the clear, soft water you want and need. Its easy to read LED screen and user-friendly console allows you to monitor all operating functions. It's true, nothing will last longer than your first Impression.

The Meter
Water usage is electronically monitored and the system is automatically regenerated based on actual water consumption. The controller can anticipate higher water usage based on previous trends and regenerate the system, as needed, to ensure the availability of quality water. Likewise, when water usage is low, the system regenerates less often, saving on salt and water.

The Electronics
The microprocessor captures all water softener operations, including gallons per day, total gallons, peak flow rates, and total regenerations. Time and history is held in memory and protected by a built-in battery backup.

The Control Valve
A rugged, Noryl™ control valve handles high flow rates without dropping household water pressures — like when showers, toilets and faucets are all in use at the same time.

Soft, Quality Water
Impression Series® water softeners provide the quality water you need for everyday life. Day and night, your water will now perform the way it should — creating richer lathers by using less soap, rinsing cleaner without film and residue. Your household plumbing will be protected from staining, scale and mineral deposits. Best of all, this system is built to last and easy to operate.

MEMBER Water Quality Association

MADE IN THE USA

© October 2020 A.O. Smith Water Products Company. All right reserved
www.aosmithme.com

SPECIFICATIONS
IMPRESSION

	Capacity [1] (Grains/Lbs. NaCl)			Amount of Media (Cu. Ft.)	Max. Water Hardness (GPG)	Max. Iron [2] (PPM)	Peak Flow Rate [3] (GPM @ P-PSI)	Continuous Flow Rate (GPM @ P-PSI)
	Minimum	Medium	Maximum					
IM-844	15.600 @ 3.0	21.600 @ 6.0	25.600 @ 9.0	.75	50	1.0	11.4 @ 15.0	5.0 @ 5.4
IM-1044	23.600 @ 6.0	28.400 @ 9.0	32.000 @ 15.0	1.0	75	1.0	17.1 @ 15.0	5.0 @ 2.8
IM-1054	35.400 @ 9.0	44.400 @ 15.0	48.800 @ 21.0	1.5	100	1.0	14.3 @ 15.0	5.0 @ 3.8
IM-1354	53.000 @ 12.0	64.200 @ 18.0	72.800 @ 24.0	2.5	100	1.0	18.5 @ 15.0	5.0 @ 2.4
IMC-835	13.600 @ 3.0	18.000 @ 6.0	21.000 @ 9.0	0.5	50	1.0	12.2 @ 15.0	5.0 @ 5.0
IMC-1035	23.600 @ 6.0	28.400 @ 9.0	32.000 @ 15.0	1.0	75	1.0	17.1 @ 15.0	5.0 @ 2.8

[1] All Impression water softeners are set at medium salting.
[2] Iron removal may vary depending on form of iron, pH and other local conditions. On waters that are pre-chlorinated or where other pre-oxidation occurs, an iron precipitate can form that is too small to be filtered.
[3] Unit not tested for capacity at these flow rates. Water quality may vary.

	Water Pressure Range (PSI)	Water Temp (°F)	Electrical Req. (V-Hz)	Pipe Size	Dimensions WxH(xD)	
					Media Tank & Valve	Brine Tank
IM-844	25-100	33-100	110-50/60	1"	8x52	18x33
IM-1044	25-100	33-100	110-50/60	1"	10x52	18x33
IM-1054	25-100	33-100	110-50/60	1"	10x62	18x33
IM-1354	25-100	33-100	110-50/60	1"	13x62	18x40
IMC-835	25-100	33-100	110-50/60	1"	14x44.5x20.5 (cabinet [2])	
IMC-1035	25-100	33-100	110-50/60	1"	14x44.5x20.5 (cabinet [2])	

[2] These are the High-Profile cabinet option dimensions. Low-Profile cabinets are 1 inch shorter.

Cycle Times and Usage

In minutes and gallons; Regeneration total is 'Backwash + Brine & Rinse + Rapid Rinse'

Model	Brine Refill		Backwash		Brine & Rinse		Rapid Rinse		Total	
	Min.	Gal.	Min.	Gal.	Min.	Gal.	Min.	Gal.	Min.	Gal.
IM-844	4	2	6	10	40	16	4	7	50	35
IM-1044	6	3	8	22	60	24	4	11	72	60
IM-1054	10	5	8	22	90	36	4	11	102	74
IM-1354	12	6	10	32	90	47	4	13	104	98
IMC-835	4	2	6	10	40	16	4	7	50	35
IMC-1035	6	3	8	22	60	24	4	11	72	60

Cabinet Design
The optional Impression cabinet (IMC) offers excellent space savings while still allowing up to 150 lbs salt storage. Its top sliding cover opens to a large tapered chute for ease of adding salt to the system without removing the cover. This new design offers a unique flip up access window that allows you to program the valve without removing the cover. A new brine valve/brine well system allows full access to the safety float valve for servicing, without having to disassemble the complete system.

© October 2020 A.O. Smith Water Products Company. All right reserved
www.aosmithme.com