



The Culligan Hi-Flo® 50 Series Industrial Water Softener System



EXAMPLES OF MARKETS SERVED:

- CLINICS
- EDUCATIONAL FACILITIES
- ENERGY & POWER
- FOOD & BEVERAGE PRODUCTION
- FOOD SERVICE/RESTAURANTS
- GROCERY
- HEALTHCARE/HOSPITALS/BIO-PHARMACEUTICAL
- HOSPITALITY/LODGING
- MANUFACTURING
- MUNICIPAL DRINKING WATER
- OIL & GAS

Durable High-Volume Water Softening for Industrial Applications

The Culligan Hi-Flo 50 water softener delivers high-quality water for high-volume applications, reducing contaminants* that affect the efficiency and performance of water-using equipment. The scalable large-capacity softener helps meet your present and future water softening requirements. The Culligan exclusive Smart Controller allows you to efficiently set up and manage your water treatment. Use optional accessories to manage your softening needs including flow rates, and water quality, saving resources and money.

The Hi-Flo 50 softener is part of the Culligan Matrix Solutions™ that combine durable and efficient equipment, systems experience, and technical experts who understand your unique requirements. From planning your system to installing your water treatment equipment, Culligan Matrix Solutions offer options that help deliver the quality of water to meet your needs. Contact Culligan today to learn more about the Hi-Flo 50 softener system.

*contaminants may not necessarily be in your water

Culligan Matrix Solutions Advantages:

- Simple System Integration
- Global Product Platform
- Flexible Configurations
- Quick Delivery/Easy Installation
- Exclusive Culligan Advanced Electronics
 - Historical Operating Data
 - Alarm Recognitions
 - US Standard and Metric Readings
 - Remote Monitoring Options
 - Telemetry Options



**Pre-Treatment
Solutions**



**Membrane
Solutions**



**Deionization
Solutions**



**Storage
Solutions**



**Distribution
Solutions**

Warranty

Culligan's Hi-Flo 50 water softeners are backed by a limited 1-year warranty against defects in material, workmanship and corrosion. In addition, softener tanks are warranted for a period of 5 years.†

†See printed warranty for details. Culligan will provide a copy of the warranty upon request.

Some localities have corrosive water. A softener cannot correct this condition, so its printed warranty disclaims liability for corrosion of plumbing lines, fixtures, or water-using equipment. If you suspect corrosion, your independently operated Culligan dealer has equipment to help control the problem.

Examples of Softener Applications

- Boiler and Cooling tower make-up water
 - reduce scale and lower energy costs
- RO/DI pre-treatment
- Ultra soft water for oil field steam injectors
 - increase thermal efficiency and reduce maintenance costs
- Manufacturing – water treatment for consistent production
- Food Manufacturing ingredient, process and utility water treatment
- Process water treatment

Standard Features

- Single or Multiple Tank Configurations – Hardness removal capacities up to 2,000,000 grains per tank. Continuous flow rates up to 240 gpm per tank
- Culligan's Smart Controller – More control over your equipment with programming and monitoring capabilities typically found in more expensive PLC controls, a variety of add-on options for advanced instrumentation and communication let you easily customize the system to help meet your needs
- Regeneration initiation by choice or combination of time clock, meter or Aqua-Sensor® inputs
- Telemetric Capability
- Side-Mounted Valve Harness – Guided perimeter designed diaphragm valves are smooth operating and free of water hammer, all valve parts are easily accessible in the design for ease of service
- Corrosion resistant tanks – Made of low carbon steel with epoxy interior lining and finish coat painted exterior

Optional Features & Accessories

- Corrosion resistant brine system construction for long life
- Skid Mounted – fully pre-piped and wired systems for single point field utility connection of inlet, outlet, drain and power supply
- Patented Progressive Flow – Culligan's Smart Controller can monitor flow demands bringing additional softening tanks on-line or offline as flows increase or decrease
- ASME Code Tanks
- Brine Reclaim – reduces operating costs by recycling a portion of the regeneration water
- Patented Aqua-Sensor® – initiates regeneration only when needed based upon water hardness, automatically adjusts to changes in raw water hardness and water consumption
- Flow Measuring Devices – are available for volume based regeneration initiation
- Gauge Packages – pressure gauges provided for mounting at the inlet and outlet connection
- Remote Display
- RS232, RS485, Modbus PLC Output

System Specifications

Specification	US	Metric
Inlet Pressure (dynamic)	30-120 psig	210-830 kPa
Power Voltage Frequency Phase	120 VAC/24 VAC ¹ 50/60Hz	
Feed Water Temperature	40–120° F	4-49° C
Turbidity, maximum	5 NTU	
Chlorine, max.: 0 mg/L	1 mg/l	
Iron, maximum	5 mg/l	

¹120 Volt/24 Volt CUL/UL listed Transformer Included.
²See media specification for details.

Hi-Flo 50 Water Softener System

Model	Resin Qty. (Fi ³ /L)	Pipe Size (in./mm)	Flow Rates (gpm @ psi / lpm @ kPa)		Tank Size (in./mm)	
			Continuous*	Peak**	Resin Tank	Brine Tank***
HS-1203	40	3	150 @ 8	230 @ 15	48 x 60	48 x 60
	1133	76.2	567.8 @ 55.2	870.6 @ 103.4	1,219 x 1,524	1,219 x 1,524
HS-1503	50	3	160 @ 7	230 @ 14	54 x 60	48 x 60
	1416	76.2	605.6 @ 48.3	870.6 @ 96.5	1,372 x 1,524	1,219 x 1,524
HS-1504	50	4	190 @ 6	320 @ 15	54 x 60	48 x 60
	1416	101.6	719.2 @ 41.4	1211.2 @ 103.4	1,372 x 1,524	1,219 x 1,524
HS-2004	67	4	240 @ 7	400 @ 18	60 x 60	60 x 60
	1897	101.6	908.4 @ 48.3	1514 @ 124.1	1,524 x 1,524	1,524 x 1,524

* Flow rate is based on pressure drop.
 ** Flow rate is based on pressure drop.
 *** Dimensions are diameter by tank height.
 **** Per Softener Tank.

Flow rates shown are per tank.
 Low flow channeling (flow rates less than 0.5 gallons per minute per cubic foot of resin) may cause hardness leakage into effluent.

Finally, an end-to-end solution from a single source.



Place your commercial and industrial water treatment needs in the hands of a global leader.

For over 70 years, Culligan has made better water. Our global network, comprised of 800+ dealers and international licensees in over 90 countries, is dedicated to addressing your water-related problems. As a worldwide leader in water treatment, our sales representatives and service technicians are familiar with the local water conditions in your area. Being global and local position us to deliver customized solutions to commercial and industrial water issues that affect your business and your bottom line.

www.culliganmatrixsolutions.com • 866-787-4293

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