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Educational Facilities
Energy/Power
Food/Beverage Production
Food Service/Restaurants
Grocery
Healthcare/Hospitals/Bio-Pharmaceutical
Hospitality/Lodging
Manufacturing
Municipal Drinking Water
Oil/Gas

**The Culligan Hi-Flo® 3e Series
WATER SOFTENER SYSTEM**

**An Efficient, Flexible, and Scalable Water
Treatment System**

Improve your water quality regardless of your water usage quantity. The Culligan Hi-Flo 3e water softener effectively reduces contaminants* that affect water quality such as scale and stain-causing minerals. The Culligan-exclusive Smart Controller allows you to efficiently set up and manage your water treatment. Using optional accessories, monitor water usage data, such as the flow rate and volume, and regenerate the system as needed, saving resources and money.

The Hi-Flo 3e 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 3e softener system.

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

*Contaminants may not necessarily be in your water.



SYSTEM SPECIFICATIONS

Warranty

Culligan's Hi-Flo 3e water softeners are backed by a limited 1-year warranty against defects in materials, workmanship, and corrosion. The plastic conditioner tank has a 5-year warranty. See printed warranty for details.[†]

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.

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

Upgrade Options

- Retrofit any existing Hi-Flo 3 system.
- Retrofit any existing Fleck® 2850, 2900, 3150 and 3900 system.
- Provides full Culligan Smart Controller functionality.
- Add exclusive features such as progressive flow or brine reclaim to existing systems.
- Can be used with virtually any Hall effect type flow meter.
- Additional kits are available to convert existing Fleck flow meter.

Examples of Softener Applications

- RO/DI Pretreatment
- Apartment buildings, assisted living facilities and hotels — Quality water for laundry, dishwashers, boilers
- Office buildings — For heating plant pretreatment, tenant convenience, general housekeeping
- Restaurants — For dishwashing, cleaning material savings, scale reduction
- Car washes — Quality results, detergent and water heating savings, scale reduction

Standard Features

- Single or Multi-Tank Configurations — Hardness removal capacities up to 1,200,000 grains per tank, and continuous flow rates up to 75 gpm (2") or 215 gpm (3") 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
- Telemetric Capability
- Regeneration initiated by timeclock or optional flow meter
- Positive Motor-Driven Regeneration Valve — Motor driven piston is reliable under severe water conditions, resists dirt, iron, turbidity

- Grocery/Retail — Quality water for aesthetics and help extend equipment life
- Light industry — For process and make-up water, boiler and cooling system pretreatment, general housekeeping

- Corrosion Resistant Tanks — Made from fiberglass reinforced polyester
- Under-drain design enhances softening capacity and reduces pressure loss
- Retrofit Existing Systems — Our retrofit kits can be used to add full Culligan Smart Controller capabilities to existing systems
- NSF 61 Rating

Optional Features & Accessories

- Dubl-Safe™ Brine System — Positive overflow protection Automatic refill control is backed up by shutoff float valve to reduce chance of overflow
- Patented Progressive Flow — Culligan's Smart Controller can monitor flow demands bringing additional softening tanks on-line or offline as flows increase or decrease
- Flow Measuring Devices — are available for direct connection to the Culligan Smart Controller for volume based regeneration initiation
- Brine Reclaim — reduces operating costs
- 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	120/24 V AC ¹ 50/60Hz	
Power Consumption	3/100 Watts Min/Max	
Vacuum	None ²	
Feed Water Temperature	40–100° F	4–38° C

¹120 Volt/24 Volt CUL/UL listed Transformer Included.

² Tank warranty is void if subject to vacuum.

³ See media specification for details.

Hi-Flo 3e Water Softener System

Model	Resin Qty. (ft ³ /L)	Pipe Size (in/mm)	Flow Rates (gpm/lpm)		Tank Size*** (in/mm)	
			Continuous*	Peak**	Softener	Brine****
HCE-120-2	4	2	45	60	16 x 65	24 x 50
	113	50.8	170.3	227.1	406 x 1,651	610 x 1,270
HCE-150-2	5	2	60	78	18 x 65	24 x 50
	142	50.8	227.1	295.2	457 x 1,651	610 x 1,270
HCE-210-2	7	2	58	76	21 x 62	24 x 50
	198	50.8	219.5	287.7	533 x 1,575	610 x 1,270
HCE-300-2	10	2	65	85	24 x 72	30 x 50
	283	50.8	246	321.7	610 x 1,829	762 x 1,270
HCE-450-2	15	2	75	100	30 x 72	30 x 50
	425	50.8	283.9	378.5	762 x 1,829	762 x 1,270
HCE-450-3	15	3	160	210	30 x 72	30 x 50
	424.8	76.2	36.32	47.67	762 x 1,829	762 x 1,270
HCE-600-3	20	3	185	250	36 x 72	39 x 48
	566.4	76.2	42	56.75	914 x 1,829	991 x 1,219
HCE-900-3	30	3	200	270	42 x 72	42 x 48
	849.6	76.2	45.4	61.29	1,067 x 1,829	1,067 x 1,219
HCE-1200-3	40	3	215	280	48 x 72	48 x 60
	1132.8	76.2	48.81	63.56	1,219 x 1,829	1,219 x 1,524

*Flow rate at a 15 psi pressure loss.

**Flow rate at a 25 psi pressure loss.

***Dimensions are diameter by tank height.

****Brine systems are optional. Size shown is size most commonly selected.

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.



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For over 75 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.

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Culligan reserves the right to change the specifications referred to in this literature at any time, without prior notice.