



The world's most intelligent and truly efficient water softener
Culligan® HE Softener Series



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



better water. pure and simple.

Culligan® MATRIX

SOLUTIONS™

Culligan® HE Softener Series

The world's most intelligent and truly efficient water softener



Culligan®
HE SOFTENER
display

Exclusive Culligan Advanced Electronics

allowing for features such as:

- Remote display and control
- Smart brine tank probe
- Telemetry options
- Historical operating data
- Alarm status

SOFTENER APPLICATIONS

- Hot and Cold water services • Steam Boiler make up
- Cooling & humidifier system make up • Process water
- Reverse Osmosis pre-treatment

MARKETS SERVED

- Industrial & Commercial • Leisure • Laundries
- Food & Beverage • Car Washes • Manufacturing
- Apartment Buildings and Hotels • Restaurants

For high-efficiency water softening, nothing can match the intelligent design of the Culligan® HE high efficiency series of softeners.

Just 1mm of scale can decrease efficiency within heating equipment by 10%!

- The patented technologies found in the Culligan HE softener series optimise salt, water and electricity consumption by up to 46% over traditional softeners*.

- Upflow regeneration allows up to 24% higher capacity at the same salt dosage when compared to down flow systems.

- The proportional brining feature monitors water consumption and regenerates only the exhausted (used) resin rather than regenerating the whole tank at the same time.

- The highly efficient Culligan Dial-a-Softness® control valve is unique to the industry allowing consumers to set the softness required, providing further savings in salt usage.

- With Culligan's patented Progressive Flow feature, you can size softeners based on average water usage, which helps reduce costs. In this formation up to 6 Culligan HE softeners can be connected in series.

Proven Design and Reliability from a name you can trust

Culligan have been a world leader in water softening for over 75 years.

Our exclusive, non-corrosive HE valve uses a 6 cycle motorised piston valve that provide more reliability and ease of service than traditional rotary valve systems.

* 46% less versus a time clock regeneration softener.



**PRE-TREATMENT
SOLUTIONS**



**MEMBRANE
SOLUTIONS**



**DEIONIZATION
SOLUTIONS**



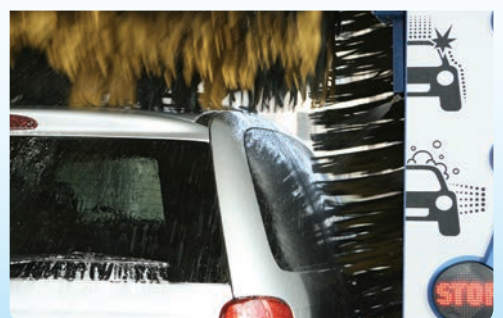
**STORAGE
SOLUTIONS**



**DISTRIBUTION
SOLUTIONS**

STANDARD FEATURES

- Culligan's proportional upflow brining allows your softener to only regenerate that part of the resin bed that has been exhausted, which allows up to 24% higher capacity at the same salt dosage when compared to down flow systems.
- Culligan's Smart Controller – More control over your equipment with programming and monitoring capabilities typically found in more expensive PLC controls. The unit is compatible with modern Building Management Systems, providing all essential data and alarms. The controller comes with a 5-year battery back-up with low-battery alarm preventing the loss of settings, and keeps the system functioning in the event of a power outage.
- Automatic bypass valve provides the convenience of bypassing the water softener from the softener itself or the remote display.
- Culligan's Dial-a-Softness® control lets you choose the hardness level by automatically blending mains and soft water.
- Exclusive Culligan® Soft-Minder® meter monitors daily water use and provides advanced system diagnostics.
- Culligan exclusive, corrosion resistant valve using motorised pistons that provide more reliability than traditional rotary valve systems.
- Multi-piston design of valve – allows for easy service and increases durability and valve life.
- 1" units come with high-impact Quadra-hull® resin tanks with a 4-layer reinforced design. Suitable for medical applications. 1.5" units come with corrosion resistant resin tanks made from fiberglass reinforced polyester.
- Long-lasting brine tank with corrosion-proof components and Dubl-Safe brine refill control ensures proper operation.
- All HE softeners use FDA approved Cullex® resin media assuring stability and long life.



OPTIONAL FEATURES & ACCESSORIES

- Smart Brine Tank Probe - monitors salt usage and communicates how much salt is left, also providing alarms should errors such as salt bridging occur.
- Culligan's remote display makes it possible to control and monitor the softener remotely up to 60-m away (where building conditions allow).
- Telemetry options – a modem can be fitted to alert Culligan if salt is needed or the softener needs service.
- RS232, RS485, Modbus PLC Output.
- Resin disinfection during regeneration to ensure high quality water is continuously provided to service.



CULLIGAN® HE WATER SOFTENERS SYSTEM

Softener model	Overall Dimensions w x d x h cm	Exchange Capacity m³ x °f @ Salt Dosage Per Recharge	Salt Storage Capacity	Working Weight	Shipping Weight	Connection type & size inlet/outlet/ drain	Regeneration water peak flow to drain	Regeneration water volume to drain *
HE 20 1"	69x46x127	97 @ 1,8 Kg 136 @ 3,6 Kg 150 @ 5,4 Kg	170 Kg	260 Kg	55 Kg	BSP 1"/1"/0.5"	0.6 m³/h	178 Lt
HE 40 1"	72x46x158	194 @ 2,7 Kg 311 @ 5,4 Kg 356 @ 8,2 Kg	170 Kg	290 Kg	77 Kg	BSP 1"/1"/0.5"	0.6 m³/h	170 Lt
HE 60 1"	92x61x153	226 @ 3,6 Kg 330 @ 7,3 Kg 401 @ 8,2 Kg	295 Kg	490 Kg	115 Kg	BSP 1"/1"/0.5"	1.2 m³/h	254 Lt
HE 90 1"	97x61x186	343 @ 5,4 Kg 492 @ 10,9 Kg 589 @ 16,0 Kg	295 Kg	560 Kg	152 Kg	BSP 1"/1"/0.5"	1.2 m³/h	587 Lt
HE 60 1.5"	97x61x153	214 @ 3,6 Kg 265 @ 5,4 Kg 395 @ 13,6 Kg	295 Kg	525 Kg	112 Kg	BSP 1.5"/1.5"/0.5"	1.2 m³/h	390 Lt
HE 90 1.5"	102x61x153	343 @ 5,4 Kg 440 @ 8,2 Kg 621 @ 20,4 Kg	295 Kg	550 Kg	135 Kg	BSP 1.5"/1.5"/0.5"	1.2 m³/h	540 Lt
HE 120 1.5"	102x61x188	505 @ 7,3 Kg 641 @ 10,9 Kg 887 @ 27,2 Kg	409 Kg	735 Kg	170 Kg	BSP 1.5"/1.5"/0.5"	1.2 m³/h	500 Lt
HE 150 1.5"	130x77x155	602 @ 9,1 Kg 764 @ 13,6 Kg 977 @ 34,0 Kg	636 Kg	1030 Kg	240 Kg	BSP 1.5"/1.5"/0.5"	1.6 m³/h	575 Lt
HE 210 1.5"	130x77x178	744 @ 12,7 Kg 1081 @ 19,1 Kg 1521 @ 47,6 Kg	636 Kg	1180 Kg	295 Kg	BSP 1.5"/1.5"/0.5"	2.6 m³/h	819 Lt

SYSTEM SPECIFICATIONS

System Specification	For the HE 1" models	For the HE 1.5" models
Service Flowrate @ pressure drop	2,3 m³/h @ 0,8 bar	6,4 m³/h @ 1 bar
Service Flowrate @ pressure drop	2,8 m³/h @ 1 bar	8,4 m³/h @ 1,7 bar
Operating pressure min/max	1.4 - 8.6 bar	1.7 - 8.3 bar
Operating water temperature range	0 - 49 °C	4.4 - 38 °C
Operating ambient temperature range	0 - 55 °C	0 - 55 °C
Supply Voltage	230/24V - 50/60 Hz	230/24V - 50/60 Hz
Power consumption	8.4 - 21.61 watts	8.4 - 21.61 watts
Minimum mainten- ance access to safely fill the brine tank	1m	1m
For proportional brining use	20 g salt/ m³ x °f	20 g salt/ m³ x °f

* Based on a backwash time of 10 minutes. The average time for complete regeneration is considered to be 70 minutes.

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



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

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.

QUALITY SYSTEM CERTIFIED ACCORDING TO UNI EN ISO 9001:2008 NORM

CULLIGAN

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Culligan reserves the right to change any technical or design specifications for the models shown in this brochure.

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