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The Culligan® High Efficiency (HE) DEALKALIZER SYSTEM

Lower Alkalinity with the HE Dealkalizer

When your water quality requirements include reducing alkalinity for variable volume applications, choose the Culligan HE dealkalizer. The HE dealkalizer is a post-treatment option for your Culligan water softening system, reducing additional contaminants* in the water that affect the efficiency of water-using equipment. Set up the dealkalizer and manage your system using the Culligan exclusive GBE controller.

The HE dealkalizer is part of the Culligan Commercial and Industrial 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 Commercial and Industrial Solutions offer options that help deliver the quality of water to meet your needs. Contact Culligan today to discuss your water treatment options.

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.



PRE-TREATMENT SOLUTIONS.

SYSTEM SPECIFICATIONS

Examples of Dealkalizer Applications

- Apartment buildings, assisted living facilities and hotels — Quality water for boilers
- Office buildings — For heating plant pretreatment
- Grocery / Retail — Quality water for aesthetics and help extend equipment life
- Light industry — For process and make-up water, boiler and cooling system pretreatment

Warranty

Culligan's HE dealkalizers 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.[†]

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

Standard Features

- Single or Multiple Tank Configurations — Flow rates up to 22 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, flow meter
- Telemetric Capability
- Corrosion Resistant Positive Motor-Driven Regeneration Valve — Motor driven piston is reliable under server water conditions, resists dirt, iron and turbidity
- Corrosion Resistant Tanks — Made from fiberglass reinforced polyester
- Under-drain design enhances dealkalizer capacity and reduces pressure loss
- Flow Meter
- UL/CUL/CE Ratings

Optional Features & Accessories

- Dubl-Safe™ Brine System for softeners — 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 tanks on-line or offline as flows increase or decrease
- Bypass valve
- Skid Mounted System
- Remote Display
- RS232, RS485, Modbus PLC Output

System Specifications

Specification	US	Metric
Pipe Size, All Units	1.5"	
Maximum Operating Pressure	20–125 psig	135–860 kPa
Power Voltage Frequency Phase	24 50/60 Hz ¹	
Feed Water Temperature	33–120° F	0–48° C
Power Consumption	3/100 Watts	
Vacuum	None ²	
Turbidity	5 NTU, max. ³	
Chlorine	1 mg/L, max. ³	
Iron	5 mg/L	

¹ 120 Volt/24 Volt CUL/UL listed Transformer Included.

² Tank warranty is void if subject to vacuum.

³ See media specification for details.

HE Dealkalizer System

Model	Resin Qty. (ft ³ /L)	Flow Rates (gpm @ psi / lpm @ kPa)		Tank Size*** (in/mm)	
		Continuous*	Peak**	Resin Tank	Brine Tank****
CA-14	2	5 @ 8	10 @ 14	14 x 47	18 x 38
	57	18.9 @ 55.2	37.9 @ 96.5	356 x 1,194	457 x 965
CA-16	4	7 @ 8	14 @ 15	16 x 65	18 x 38
	113	26.5 @ 55.2	53 @ 103.4	406 x 1,651	457 x 965
CA-18	5	9 @ 9	18 @ 15	18 x 65	18 x 38
	142	34.1 @ 62	68.1 @ 103.4	457 x 1,651	457 x 965
CA-20	7	11 @ 10	22 @ 14	21 x 62	18 x 38
	198	41.6 @ 68.9	83.3 @ 96.5	533 x 1,575	457 x 965

*Flow rate is based on pressure drop.

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***Dimensions are diameter by tank height.

****Brine systems are optional.

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 leakage into effluent.

Valve only flow rate is 42 gpm @ 15 psi and 53 gpm @ 25 psi.



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For over 80 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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