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Grocery
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Hospitality / Lodging
Manufacturing
Municipal Drinking Water
Oil / Gas

The Culligan Side Mount (CSM™) Series HEAVY-DUTY WATER FILTER SYSTEM

High-Volume Filtration for Commercial and Industrial Water Systems

When you want to produce high quality water in a demanding and variable environment, trust Culligan® filters. The Culligan Side Mount (CSM) heavy-duty filter reduces contaminants* and solids that affect water quality and equipment efficiency. The Culligan®-exclusive Smart Controller makes it easy for you to set up and manage your water treatment. Using optional accessories such as an automatic timer or sensors, monitor the system and filter as needed without constant supervision, saving resources and money.

The CSM heavy-duty commercial filter 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 learn more about the CSM softener system.

CULLIGAN® COMMERCIAL & INDUSTRIAL 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

Warranty

Culligan's CSM water filters are backed by a limited 1-year warranty against defects in material, workmanship and corrosion. In addition, tanks carry a limited 5-year warranty.†

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

System Specifications

Specification	US	Metric
Inlet Pressure (dynamic)	30–100 psig	207–690 kPa
Power Voltage Frequency Phase	120 Volts 50/60Hz	
Feed Water Temperature	40–120° F	4–49° C

¹ 120 Volt/ 24 Volt CUL/UL listed transformer included.



Tested and Certified by WQA to NSF/ANSI 372

CSM Water Filter System

Model	Depth Filters					
	Service Flow Rates ¹		Backwash Flow ² (gpm/lpm)	Pipe Size (in/mm)	Media Qty. (lbs/kg)	Filter Tank Size (in/mm)
	Normal gpm @ psi drop lpm @ kPa drop	Peak gpm @ psi drop lpm @ kPa drop				
CSM-202D	22 @ 6	33 @ 12	30	2	571	20 x 54
	83.3 @ 41.4	124.9 @ 13.8	113.6	50.8	259	508 x 1,372
CSM-242D	32 @ 5	48 @ 9	45	2	830	24 x 54
	121.1 @ 34.5	181.7 @ 62	170.3	50.8	376	610 x 1,372
CSM-302D	50 @ 9	74 @ 17	75	2	1244	30 x 60
	189.3 @ 62	280.1 @ 117	283.9	50.8	564	762 x 1,524
CSM-362D	71 @ 11	107 @ 23	105	2	1765	36 x 60
	268.7 @ 6.9	405 @ 159	397.4	50.8	801	914 x 1,524
CSM-422D	97 @ 15	145 @ 28	150	2	2488	42 x 60
	367.1 @ 103.4	548.8 @ 193	567.8	50.8	1129	1,067 x 1,524
CSM-423D	97 @ 6	145 @ 11	150	3	2488	42 x 60
	367.1 @ 41.4	548.8 @ 76	567.8	76.2	1129	1,067 x 1,524

¹ Service flow rates are based on:

Normal (10 gpm/ft² - 24 m³/hr/m²) - Best quality effluent at specified flow. Lowest pressure loss. Recommended for suspended solids loads up to and greater than 300 ppm.

Peak (15 gpm/ft² - 37 m³/hr/m²) - Very good quality effluent at specified flow. Increased pressure loss. Recommended for suspended solids loads < 300 ppm.

² Backwash flow rates are based on 12-14 gpm/ft² (29-34 m³/hr/m²) using 50° F (10° C) water. A different backwash rate may be required depending upon water temperature.

Examples of Filter Applications

- Food and Beverage—Improved taste and increased cost savings
- Drinking Water—Reduces turbidity and chlorine; improves taste and clarity

Standard Features

- Single or Multiple Tank Configurations
- 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 initiation by choice or

Optional Features & Accessories

- Patented Progressive Flow—Culligan's Smart Controller can monitor flow demands, bringing additional tanks on-line or off-line as flows increase or decrease
- Differential Pressure Switch
- ASME Code Tanks

- Boilers—Turbidity reduction, reduce sludge blowdown
- Light Industry Processes—Reduces particulate matter

- Pretreatment—For softeners, RO's and DI systems
- Vehicle Wash—Turbidity reduction
- Grocery / Retail—Quality water for aesthetics and help extend equipment life

combination of time clock, flow meter or differential pressure switch

- Carbon Filters—For reduction of organics (flow rates up to 48 gpm per tank), or chlorine (flow rates up to 96 gpm per tank)
- Depth Filters—Flow rates up to 145 gpm per tank
- Culligan's Multiport Valve – Our guided perimeter-designed diaphragm valves are built with reinforced rubber components to resist damage from particulates in the water

and ensure smooth operation free of water hammer. The inside and outside surfaces of the valve are electro-coated to deter corrosion. The valve was designed with serviceability in mind; accessibility for installation and maintenance won't be an issue.

- Corrosion resistant tanks—Made of low carbon steel with epoxy interior lining and finish coat painted exterior

- Gauge Packages—Pressure gauges provided for mounting at the inlet and outlet connection
- Separate source regeneration kits
- Skid Mounted—Fully pre-piped and wired systems for single point field utility

connection of inlet, outlet, drain and power supply

- Flow Measuring Devices—Available for volume based regeneration initiation
- Remote Display
- RS232, RS485, Modbus PLC Output

Model	Carbon Filters					
	Service Flow Rates		Backwash Flow ³ (gpm/lpm)	Pipe Size (in/mm)	Media Qty. (ft ³ /m ³)	Filter Tank Size (in/mm)
	Taste Odor & Organic Removal ¹ gpm @ psi drop lpm @ kPa drop	Dechlorination ² gpm @ psi drop lpm @ kPa drop				
CSM-242R	16 @ 3	31 @ 6	30	2	8	24 x 54
	60.6 @ 20.7	117.3 @ 41.4	113.6	50.8	0.227	610 x 1,372
CSM-302R	25 @ 4	49 @ 7	45	2	12	30 x 60
	94.6 @ 27.6	185.5 @ 48.3	170.3	50.8	0.34	762 x 1,524
CSM-362R	35 @ 3	71 @ 11	70	2	18	36 x 60
	132.5 @ 20.7	268.7 @ 6.9	265	50.8	0.51	914 x 1,524
CSM-422R	48 @ 4	96 @ 13	95	2	24	42 x 60
	181.7 @ 27.6	363.4 @ 20.7	359.6	50.8	0.68	1,067 x 1,524

¹ Service flow rates for taste, odor & organic removal are based on 5 gpm/ft² (12 m³/hr/m²).

² Service flow rates for dechlorination are based on 10 gpm/ft² (24 m³/hr/m²).

³ Backwash flow rates are based on 10 gpm/ft² (24 m³/hr/m²) using 50° F (10° C) water. A different backwash rate may be required depending upon water temperature or the type of carbon used.

NOTE: Operational, maintenance and replacement requirements are essential for this product to perform as advertised. Specifications shown are for single models. Also available in multiple tank configurations.

All pressure drop figures are based on new filter media and a water temperature of 60° F.

Depth filters are capable of 10 micron effluent water quality, whereas all other filter types are capable of 40 micron effluent water quality.



www.culligan.com • 866-787-4293

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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