

The Culligan Hi-Flo® 50 Series Industrial Water Filter 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 Filtration for Industrial Applications

The Culligan Hi-Flo 50 Filter reduces contaminants* and solids that affect equipment efficiency and water quality. Configure the system based on your requirements, adding tanks and instrumentation as your usage increases. Use the Culligan-exclusive Smart Controller to easily manage and control your filtering options. Save time and effort with an automatic timer or sensors that reliably monitor your water usage and quality without constant supervision.

The Hi-Flo 50 industrial water filter 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. Your investment in treated water pays off when you work with the best equipment and people. 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

Storage

Solutions



Pre-Treatment Solutions

Deionization Solutions Distribution Solutions

Warranty

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

†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	210-690 kPA	
Power Voltage Frequency Phase	120 VAC/24 VAC ¹ 50/60Hz		
Feed Water Temperature	40—120° F	4-49° C	

120 Volt/24 Volt CUL/UL listed Transformer Included

Hi-Flo 50 Water Filter System

Normal

gpm @ psi drop

126@5

476.9@34.5

159@5

601.8@34.5

196@4

741.9@27.6

n @ kPa drop

Service Flow Rates¹

Peak

gpm @ psi drop

1116.6@69

@ kPa drop

Examples of Filter Applications

- Pretreatment For water softeners, reverse osmosis and deionization systems
 Boilers — Turbidity reduction, reduce
 - sludge blowdown

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
- Drinking Water Turbidity reduction, chlorine reduction, improves taste and clarity
- Food And Beverage Improved taste
 Industrial Processes Reduces
- particulate matter
- Telemetric Capability
- Regeneration initiation by choice or combination of time clock, meter or pressure differential switch
- Carbon Filters For reduction of organics (flow rates up to 98 gpm), or chlorine (flow rates up to 196 gpm)
- Depth Filters Flow rates up to 295 gpm

 Vehicle Wash — Turbidity reduction
 Office buildings — For heating plant pretreatment, tenant convenience, general housekeeping

- 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

RS232, RS485, Modbus PLC Output

Optional Features & Accessories -

- 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 tanks on-line or offline as flows increase or decrease

Media

Qty.

(lbs/ka)

3143

Filter Tank Size

(in/mm)

1,524 x 1,524

- ASME Code Tanks
- Flow Measuring Devices Available for volume based regeneration initiation
- Differential Pressure Switch
- Gauge Packages Pressure gauges provided for mounting at the inlet and outlet connection

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• Remote Display

Carbon Filters						
	Service Flow Rates					
Model	Taste Odor & Organic Removal ¹	Dechlorination ²	Backwash Flow ³ (gpm/lpm)	Pipe Size (in/mm)	Media Qty. (ft³/m³)	Filter Tank Size (in/mm)
	gpm @ psi drop Ipm @ kPa drop	gpm @ psi drop lpm @ kPa drop				
HR-4825	63 @ 4	126@15	136	2.5	32	48 x 60
ПК-4020	238.5 @ 27.6	476.9 @ 103.4	514.8	63.5	0.906	1,219 x 1,524
HR-543	80@6	159@18	160	3	40	54 x 60
ПК-543	302.8 @ 41.4	601.8@124.1	605.6	76.2	1.133	1,372 x 1,524
HR-603	98@1	196@12	210	3	48	60 x 60
UK-000	370.9 @ 6.9	741.9@13.8	794.9	76.2	1.359	1,524 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 gam/fft (24 m³/hr/m²) using 50° F (10° Q) wates. A different backwash rate may be required depending upon water temperature or the type of culture under the second replacement requirements are essential for this product to perform as advertised. Specifications shown are for single models. Also available in DNIC: Operational, indiretance and replacement requirements are essential for this product to perform as advertised. Specifications shown are for single models. Also available in

Write Operational, manimum and the procedurent requirements are essential on mis product to pertain us orienteed, specurications shown are no single models, elso analyze multiple tank configurations. All nessorie in from times are broad on new filter media and a writer temperature of AO° F.

Interpose and comparison of the second 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

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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189@10	188	3	4280	48 x 60
715.4@69	711.6	76.2	1941	1,219 x 1,524
239@8	210	4	5500	54 x 60
904.6 @ 55.2	794.9	101.6	2495	1,372 x 1,524
295@10	270	4	6930	60 x 60

101.6

1 Service flow rates are based on:

Model

HD-483

HD-544

HD-604

Morral (10 gm/h² - 24 m³/h/m²) - Best quality effluent at specified flow. Lowest pressure loss: Recommended for suspended solids loads up to and greater than 300 ppm. Peak (15 gm/h² - 27 m³/h/m²) - Very good quality effluent at specified flow. Increased pressure loss: Recommended for suspended solids loads < 300 ppm. 2 Bochwarh low treats are loads and 1 m²/h/m²) uping 50° F (10° Q) water. A different bochwarh inter more be equival depanding upon water temperature produces in the materia set loss and 1 m²/h/m²) uping 50° F (10° Q) water. A different bochwarh inter more be equival depanding upon water temperature

Depth Filters

Backwash

Flow

(gpm/lpm)

1022

The operational maintenance and replacement requirements are essential for this product to perform a advected. Specifications shown are for single models. Also available in multiple tank configurations.