



The Culligan Hi-Flo[®] 42 Series 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

Efficient Water Filtration Management

Expect high quality water when your water treatment system includes the Culligan Hi-Flo 42 filter. The Hi-Flo 42 helps meet the challenges of your changing water quality needs at variable consumption levels, reducing solids and contaminants* that affect water-using equipment performance and durability. Using the Culligan-exclusive Smart Controller you can efficiently manage your water quality.

The Hi-Flo 42 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. Contact Culligan today to learn more about the Hi-Flo 42 filter system.

*contaminants may not necessarily be in your water

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



Pre-Treatment Solutions



Membrane Solutions



Deionization Solutions



Storage Solutions



Distribution Solutions

Warranty

Culligan's Hi-Flo 42 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)	40–100 psig	207–690 kPa
Power Voltage Frequency Phase	120 VAC/24 VAC ¹ 50/60Hz	
Feed Water Temperature	40–120° F	4–49° C
Power Consumption	3/100 Watts	
Vacuum	None ²	

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

² Tank warranty is void if subject to vacuum.

Examples of Filter Applications

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

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 combination of time clock, meter or differential pressure switch
- Carbon Filters — For reduction of organics (flow rates up to 35 gpm per tank), or chlorine (flow rates up to 71 gpm per tank)
- Depth Filters — Flow rates up to 107 gpm per tank
- Top-Mounted Control Valve — Keeps plumbing connections simple and adaptable, full flow porting with rounded orifices and wide-open cartridges promote good flow characteristics and low pressure fluctuations
- Corrosion resistant tanks — Made of fiberglass reinforced polyester (FRP) with additional reinforcement from continuous fiberglass overlap

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
- 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 — are available for volume based regeneration initiation
- Remote Display
- RS232, RS485, Modbus PLC Output

Hi-Flo 42 Water Filter System

Depth Filters						
Model	Service Flow Rates ¹		Backwash Flow ² (gpm/lpm)	Pipe Size (in./mm)	Media Qty. (lbs/kg)	Filter Tank Size (in./mm)
	Normal	Peak				
	gpm @ psi drop lpm @ kPa drop	gpm @ psi drop lpm @ kPa drop				
HDF-20T	24 @ 5	36 @ 10	30	2	615	21x 62
	90.8 @ 34.5	136.3 @ 68.9	113.6	50.8	279	533 x 1575
HDF-24T	32 @ 5	48 @ 9	48	2	870	24 x 72
	121.1 @ 34.5	181.7 @ 62	181.7	50.8	395	610 x 1,829
HDF-30T	50 @ 7	74 @ 11	70	2	1230	30 x 72
	189.3 @ 48.3	280.1 @ 76	265	50.8	558	762 x 1,829
HDF-36T	71 @ 10	107 @ 19	90	2	1895	36 x 72
	268.7 @ 68.9	405 @ 131	340.7	50.8	860	914 x 1,829

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.

Carbon Filters						
Model	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	Dechlorination ²				
	gpm @ psi drop lpm @ kPa drop	gpm @ psi drop lpm @ kPa drop				
HRF-20T	12 @ 1.5	24 @ 4	20	2	6	21 x 62
	45.4 @ 10.3	90.8 @ 27.6	75.7	50.8	0.17	522 x 1575
HRF-24T	16 @ 2	31 @ 4	30	2	8	24 x 72
	60.6 @ 13.8	117.3 @ 27.6	113.6	50.8	0.227	610 x 1,829
HRF-30T	25 @ 3	49 @ 6	48	2	12	30 x 72
	94.6 @ 20.7	185.5 @ 41.4	181.7	50.8	0.34	762 x 1,829
HRF-36T	35 @ 3	71 @ 9	70	2	18	36 x 72
	132.5 @ 20.7	268.7 @ 62	265	50.8	0.51	914 x 1,829

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.

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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