The Culligan Hi-Flo® xN Series

WATER FILTER SYSTEM

Durable & Efficient Commercial & Industrial Water Filtration

The Hi-Flo xN Series filter reduces contaminants* and solids that affect water quality and equipment efficiency. The corrosion resistant innovative valve design offers improved reliability and ease of service. The Culligan® Smart Controller allows you to efficiently set up and manage your water treatment equipment. Customers can set up a single or multiple tank system that adjusts to flow demand. Customers can also monitor their water treatment system performance, consumable usage, and maintenance needs, at a single site or across multiple ones 24 hours a day.

The Hi-Flo xN filter is part of the Culligan® Commcercial and Industrial Solutions that combinedurable and efficient equipment, systems experience, and technical experts whounderstand your unique requirements. From planning your system to installing your water treatment equipment, Culligan® Commcercial and Industrial Solutions offer options that helpdeliver the quality of water to meet your needs. Contact Culligan® today to learn more about the Hi-Flo xN softener system.

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

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.

SYSTEM SPECIFICATIONS

Warranty

Culligan's Hi-Flo xN filters 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.

Specification	US	Metric
Inlet Pressure (dynamic)	30–100 psig	207–690 kPa
Power Voltage Frequency	120 Volts [1] 50/60Hz	
Feed Water Temperature	40–120° F	4–49° C
Vacuum	None [2]	None [2]

[1] 120 Volt/ 24 Volt CuL/UL listed transformer included.

[2] FRP Tank warranty is void if subject to vacuum

Tested and Certified by WQA to NSF/ANSI 61 and 372

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

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, 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
- Corrosion Resistant Hi-Flo xN Valve – All plastic "corrosion resistant" valve designed for reliability, ease of use with fewer parts compqared to that of traditional valve nest
- The Control Enclosure complies with UL 50/50E and UL 746C standards for a NEMA 3R Enclosure Rating
- DC Motor Driven Piston - The motor driven piston does not require pilot valve when compared to a traditional valve nest.
- Plastic Valve Sleeves - The valve sleeves provide a smooth sealing surface and guides the piston travel. The sleeves are designed to minimize wear on the O-ring and for ease of serviceconditions
- Internal blocking Valves Functionality -Eliminates the need for external blocking valves for multi-tank systems
- Available with FRP or ASME Code Steel tanks

Optional Features & Accessories

- Patented Progressive Flow – Culligan's Smart Controller can monitor flow demands bringing additional tanks on-line or offline as flows increase or decrease
- Pressure Differential Switch
- Gauge Packages—Pressure gauges provided for mounting at the inlet and outlet connection
- 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

Hi-Flo xN Water Filter System

Depth Filters

Model	Service Flow Rates[1] Normal gpm @ psi drop lpm @ kPa drop	Service Flow Rates[1] Peak gpm @ psi drop lpm @ kPa drop	Backwash Flow[2] (gpm/lpm)	Media Qty. (lbs/kg)	Pipe Size (in/mm)	Tank Size *** Filter FRP [a] in mm	Tank Size *** Filter Steel [b] in mm
Hi-Flo xN 202D	22 @ 5	33 @ 10	30	565	2	21 x 72	20 x 54
	83 @ 34	125 @ 69	114	256	50.8	533 x 1829	508 x 1372
Hi-Flo xN 242D	32 @ 4	48 @ 8	45	870	2	24 x 78	24 x 54
	121 @ 28	182 @ 55	170	395	50.8	607 x 1981	607 x 1372
Hi-Flo xN 302D	50 @ 7	74 @ 14	75	1280	2	30 x 76	30 x 60
	189 @ 48	280 @ 97	284	581	50.8	762 x 1930	762 x 1524
Hi-Flo xN 362D	71 @ 8	107 @ 19	105	1795	2	36 x 76	36 x 60
	269 @ 55	405 @ 131	397	814	50.8	914 x 1930	914 x 1524
Hi-Flo xN 422D	97 @ 12	145 @ 23	150	2710	2	42 x 83	42 x 60
	367 @ 83	549 @ 159	568	1229	50.8	1067 x 2108	1067 x 1524

*** Dimensions are diameter by height

[a] FRP Tank height is measured flange to flange

[b] Steel Tank height is shell height

[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[1] Taste & Odor Removal lpm @ kPa drop	Service Flow Rates[1] Dechlorination lpm @ kPa drop	Backwash Flow[2] (gpm/lpm)	Media Qty. (ft³/m³)	Pipe Size (in/mm)	Tank Size *** Filter FRP [a] in mm	Tank Size *** Filter Steel [b] in mm
Hi-Flo xN 242R	16 @ 2	31 @ 5	30	8	2	24 x 78	24 x 54
	61 @ 14	117 @ 34	114	0.23	50.8	607 x 1981	607 x 1372
Hi-Flo xN 302R	25 @ 2	49 @ 6	45	12	2	30 x 76	30 x 60
	95 @ 14	185 @ 41	170	0.34	50.8	762 x 1930	762 x 1524
Hi-Flo xN 362R	35 @ 2	71 @ 9	70	18	2	36 x 76	36 x 60
	132 @ 14	269 @ 62	265	0.51	50.8	914 x 1930	914 x 1524
Hi-Flo xN 422R	48 @ 2	96 @ 11	95	24	2	42 x 83	42 x 60
	182 @ 14	363 @ 76	360	0.68	50.8	1067 x 2108	1067 x 1524

*** Dimensions are diameter by height

[a] FRP Tank height is measured flange to flange

[b] Steel Tank height is shell height

[1] Service flow rates for taste, odor & organic removal are based on 5 gpm/ft² (12 m³/hr/m²). Service flow rates for dechlorination are based on 10 gpm/ft² (24 m³/hr/m²).

[2] 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.

Culligan®

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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.

Part No. 46889