

The Culligan® High Efficiency (HE) 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

High-Quality Filtered Water At Your Fingertips

The High Efficiency (HE) filter with patented technology delivers improved efficiency by reducing contaminants* that affect equipment performance and durability. With the Culligan Smart Controller, available on the HE, 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 HE 1.5 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 HE filter system.

*contaminants are not necessarily 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

Membrane

Solutions

Deionization Solutions

Storage Solutions Distribution Solutions

Pre-Treatment Solutions

Examples of Filter Applications

- Food and Beverage Improved taste and increased cost savinas
- 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 combination of time clock, flow meter or differential pressure switch

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

HE Water Filter System

| ٠ | Boilers | — | Turbidity | reduction, | reduce |
|---|---------|------|-----------|------------|--------|
| | sludge | blov | vdown | | |

- Light Industry Processes Reduces particulate matter
- Carbon Filters For reduction of organics (flow rates up to 12 gpm per tank), or chlorine (flow rates up to 24 gpm per tank)
- Depth Filters Flow rates up to 36 gpm per tank
- Corrosion Resistant Positive Motor-Driven Regeneration Valve - Motor driven piston resists dirt, iron and turbidity
- Corrosion Resistant Tanks Made from fiberglass reinforced polyester
- Under-drain design reduces pressure loss

Flow meter

- Pressure Differential Switch •
- Bypass valve
- Remote Display •
- RS232, RS485, Modbus PLC Output •

• Skid Mounted Systems

| • | Grocery/Retail — Quality water for aesthetics |
|---|---|
| | and help extend equipment life |

- Pretreatment For softeners, RO's and DI systems
- Vehicle Wash Turbidity reduction
- Electronic By-Pass The filter can be by-passed electronically either from the unit or from the remote monitor and automatically goes back into service after a pre-set time.
- Multi-Poppet Design Allows for easy service and increases durability and valve life
- Internally blocked Progressive Flow Systems
- Tested and certified by WQA against NSF/ANSI 372, CSA B483.1 and NSF/ANSI Standard 61 for material requirements
- The Control Enclosure complies with UL 50/50E and UL 746C standards for a NEMA 3R Enclosure Rating

| Specification | US | меттс |
|-------------------------------|-----------------|-------------|
| Pipe Size, All Units | 1.5″ | |
| Maximum Operating Pressure | 20—125 psig | 135—860 kPa |
| Power Voltage Frequency | 24 50/60 Hz1 | |
| Feed Water Temperature | 33—120° F | 0-48° C |
| Power Consumption | 22 Watts | |

None

1 120 Volt/24 Volt CUL/UL listed Transformer Included. 2 Tank warranty is void if subject to vacuum.

Vacuum

System Specifications

Warranty

for details.†

warranty upon request

Culligan's HE filters are backed by a limited 1-year

and corrosion. The plastic conditioner tank has a

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

5-year warranty. See printed warranty

warranty against defects in materials, workmanship,

| Depth Filters | | | | | | | | | |
|-----------------|---------------------|----------------------------------|----------------------------------|-------------------|--------------|------------|---------------------|--|--|
| Model | | Service Fl | Backwash | | | | | | |
| | | Normal Peak | Peak | Flow ² | Pipe Size | Media Qty. | Filter Tank Size | | |
| Single Units | Progressive Flow | gpm @ psi drop lpm @ kPa drop | gpm @ psi drop lpm @ kPa drop | (gpm/ lpm) | (in/mm) | (lbs/kg) | (in/mm) | | |
| | HE 1.5 | 8@3 | 12@5 | 10 | 1.5 | 180 | 12 x 52 | | |
| HE DF-12 | PF DF-12 | 30.3 @ 20.7 | 45.4 @ 34.5 | 37.9 | 38.1 | 82 | 305 x 1,321 | | |
| | HE 1.5 | 11@3 | 16@6 | 15 | 1.5 | 208 | 14 x 47 | | |
| HE DF-14 | PF DF-14 | 41.6 @ 20.7 | 60.6 @ 41.4 | 56.8 | 38.1 | 94 | 356 x 1,194 | | |
| HE DF-16 | HE 1.5 PF DF-16 | 14@4 | 21@6 | 20 | 1.5 | 280 | 16 x 53 | | |
| | | 53.0 @ 27.6 | 79.5@41.4 | 75.7 | 38.1 | 127 | 406 x 1,346 | | |
| HE DF-21 | HE 1.5 PF DF-21 | 24@8 | 36@13 | 30 | 1.5 | 615 | 21 x 62 | | |
| | | 90.8 @ 55.2 | 136.3 @ 89.6 | 113.6 | 38.1 | 279 | 533 x 1,575 | | |

| | | Carbon Filters | | | | | | | | |
|---|----------|---------------------|--|----------------------------------|--------------|------------|---------------------|-----------------------------|--|--|
| | | | Service Fl | Backwash Flow ³ | Pipe Size | Media Qty. | Filter Tank Size | | | |
| | Model | | Taste Odor & Organic Removal ¹ | | | | | Dechlorination ² | | |
| | Single | Progressive Flow | | | (gpm/lpm) | | (ft³/m³) | (in/mm) | | |
| | Unit | | gpm @ psi drop lpm @ kPa drop | gpm @ psi drop lpm @ kPa drop | | | | | | |
| 1 | HE CE-12 | HE 1.5 PF CF-12 | 4@1 | 8@1 | 8 | 1.5 | 2 | 12 x 52 | | |
| | | | 15.1@6.9 | 30.3 @ 6.9 | 30.3 | 38.1 | 0.057 | 305 x 1,321 | | |
| 4 | HE CE-14 | HE 1.5 PF CF-14 | 5@1 | 11@2 | 10 | 1.5 | 3 | 14 x 47 | | |
| | TIE UPT4 | | 18.9@6.9 | 41.6@13.8 | 37.9 | 38.1 | 0.085 | 356 x 1,194 | | |
| 6 | HE CE-16 | HE 1.5 | 7@1 | 14@2 | 15 | 1.5 | 3 | 16 x 53 | | |
| | | PF CF-16 | 26.5 @ 6.9 | 53.0@13.8 | 56.8 | 38.1 | 0.085 | 406 x 1,346 | | |
| 5 | HE CE-21 | HE 1.5 PF CF-21 | 12@2 | 24@8 | 25 | 1.5 | 6 | 21 x 62 | | |
| | | | 45.4@13.8 | 90.8 @ 55.2 | 94.6 | 38.1 | 0.170 | 533 x 1,575 | | |

l Service flow rates are based on: Normal (10 gpm/tr²- 24 m³/trr/m²) - Best quality effluent at specified flow. Lowest pressure loss. Recommended for suspended solids Network or cognity in 2 km / m / ban quarky minor in a pocification mer. Constructions as the communication of assignment and assignment a

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

2 Discharge in more and the second se

2 sortice that have no containment at a solution of gamp in (2 + m) ray in (2

NOTE: Operatio ed. Specifications shown are for single mode

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 75 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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| Joh water temperature of the type of carbon used. | |
|---|-------|
| nal, maintenance and replacement requirements are essential for this product to perform as advert | tised |
| Is. Also available in multiple tank configurations. | |
| | |
| | |
| | |

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)