



GE WATER TECHNOLOGIES RESIDENTIAL DRINKING WATER COMPONENTS

Residential RO Products

GE Water Technologies Household Water Group has been at the forefront of the water treatment industry for three decades, and we continue to lead the way with our ongoing research and development. Our commitment to quality, customer service, and leading-edge technology means that you can expect reliable products that meet and exceed your water-treatment needs.

GE Water Technologies is the premier point-of-use residential products leader.



A Full Line of Membrane Elements Built on GE Water Technologies Products

GE Water Technologies brand membrane is built on a strong tradition of Reverse Osmosis technology. Our residential membranes have led the industry for years, featuring superior design and high quality. Over thirty years of combined Reverse Osmosis experience ensures that you will have the very best in residential RO when you select membranes from GE Water Technologies Household Water Group.

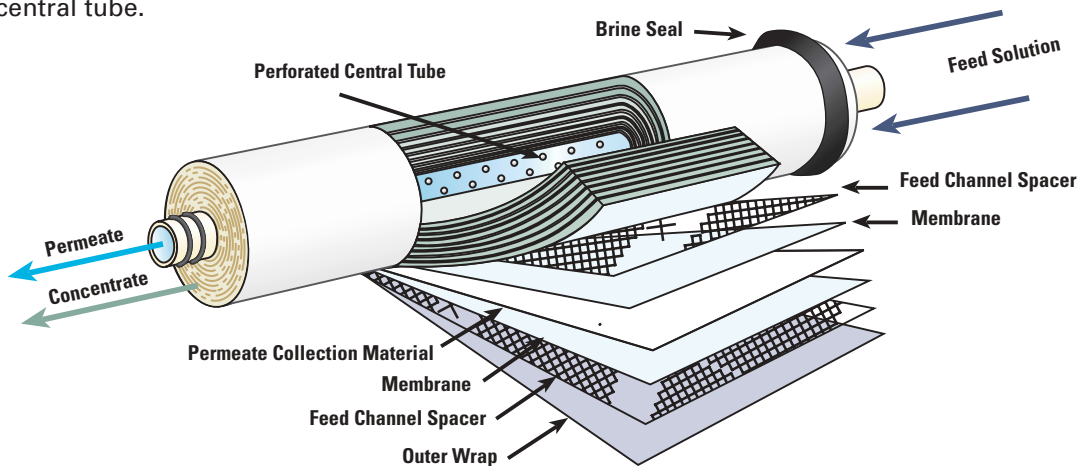
Innovative, Proven Membrane Technology Ensures RO Performance

Unlike conventional filtration which can be maintenance-intensive, costly, and environmentally unfriendly, membrane-separation technology employs crossflow filtration where captured impurities on the membrane are constantly swept away by the concentrate stream. Thus the membrane surface is continuously cleaned, prolonging the life of the membrane and reducing maintenance costs.

In residential applications, RO membranes are used to purify varying qualities of water. In a common application, the appropriate RO membrane element is housed inside a pressure vessel that accepts inflowing, pressurized feedwater. Crossflow filtration across the membrane then divides the flow into two outflow streams: the cleansed permeate stream and the concentrate or reject stream.

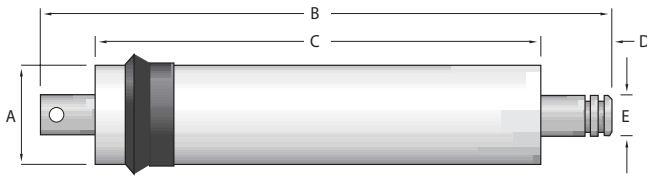
How the Membrane Element Works

The spiral-wound membrane element is constructed of one or more membrane envelopes wound around a perforated central tube. The permeate passes through the membrane into the envelope and spirals inward to the central tube.



Residential Reverse Osmosis Elements

Size Specifications



MODEL	A	B	C	D	E
TFM-18	1.50	11.75	10.00	0.875	0.678
TFM-24	1.80	11.75	10.00	0.875	0.678
TFM-36	1.80	11.75	10.00	0.875	0.678
TFM-50	1.80	11.75	10.00	0.875	0.678
TFM-75	1.80	11.75	10.00	0.875	0.678
TFM-100	1.80	11.75	10.00	0.875	0.678
CTA-10	1.80	11.75	10.00	0.875	0.678
CTA-16	1.80	11.75	10.00	0.875	0.678
TLC-150	1.80	11.75	10.00	0.875	0.678

Residential Thin-Film Membrane RO Elements

PART NUMBER	MODEL	AVERAGE NaCl REJECTION (%)	PERMEATE FLOW* gpd @ 65 psi
1220188	TFM-18*	98.0	18
1220189	TFM-24*	98.0	24
1220190	TFM-36*	98.0	36
1204694	TFM-50*	98.0	50
1204487	TFM-75**	96.0	75
1221122	TFM-100**	96.0	100
1233581	TLC-150	93.0	150



*Specifications are based on 500 mg/L NaCl solution at 65 psi inlet pressure (4.1 bar), 77°F (25°C), 15% recovery after 24 hours. Individual element flux may vary \pm 15%.

NOTE: Carbon Pre-filtration recommended on chlorinated water supplies.

*ANSI/NSF 58 listed for performance of element component.

** ANSI/NSF 50 listed for materials extraction.

Residential Cellulose-Acetate Membrane RO Elements

PART NUMBER	MODEL	AVERAGE NaCl REJECTION (%)	PERMEATE FLOW* gpd @ 65 psi
1201330	CTA-10	93.0	10
1201332	CTA-16	93.0	16



*Specifications are based on 500 mg/L NaCl solution at 65 psi inlet pressure (4.1 bar), 77°F (25°C), 15% recovery after 24 hours. Individual element flux may vary \pm 15%.

Residential Reverse Osmosis Elements

Residential Encapsulated Membrane Elements

GE Water Technologies offers a complete line of encapsulated membranes for use in residential and light commercial applications.

- Color-coded ports and quick disconnect fittings for proper and easy connection to an existing system.
- Built-in permeate check valve on all models eliminates the need for additional fittings and reduces potential water leaks within the system.
- Optional models include matched encapsulated flow control for easy, direct replacement on any unit made by any system maker.
- A wide variety of product water flow ranges can handle many residential and commercial applications.

Specifications

- Dimensions 13.25-inch L x 2.5-inch W (33.7 cm x 6.4 cm)
- Materials..... Polypropylene
- Maximum Temperature..... 120°F (48.9° C)
- Maximum Pressure..... 90 PSI (6.2 bar)
- Feed, Brine and Product Water Connections..... 1/4-inch Quick Connect

Encapsulated Models

PART NUMBER	MODEL	AVERAGE NaCl REJECTION (%)	PERMEATE FLOW* gpd @ 65 psi
1220542	TFM-18EN	98.0	18
1223056	TFM-24EN	98.0	24
1220541	TFM-36EN	98.0	36
1220538	TFM-50EN	98.0	50
1220539	TFM-75EN	96.0	75
1225828	TFM-100EN	96.0	100
1234409	TLC-150EN	93.0	150



Encapsulated Models With Brine Flow Control

PART NUMBER	MODEL	AVERAGE NaCl REJECTION (%)	PERMEATE FLOW* gpd @ 65 psi
1220545	TFM-18EB	98.0	18
1220537	TFM-24EB	98.0	24
1220549	TFM-36EB	98.0	36
1220536	TFM-50EB	98.0	50
1223077	TFM-75EB	96.0	75
1238189	TFM-100EB	96.0	100
1234408	TLC-150EB	93.0	150



Specifications are based on 500 mg/L NaCl solution at 65 psi inlet pressure (4.8 bar), 25°C, 15% recovery after 24 hours. Individual element flux may vary ± 15%.

NOTE: Carbon pre-filtration recommended on chlorinated water supplies.

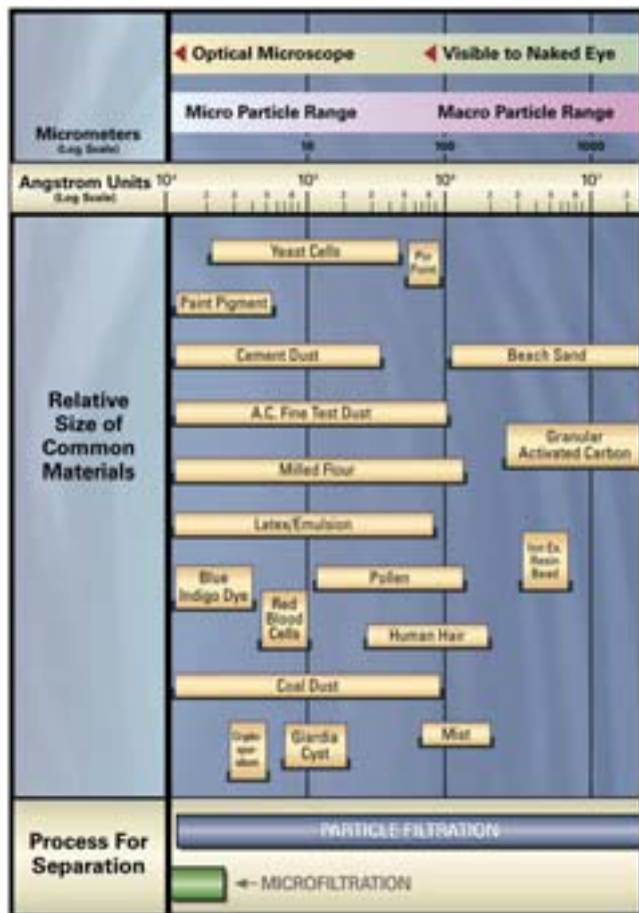
Residential Cartridge Filtration

A Wide Range of Filters for All Residential Water Needs

GE Water Technologies comprehensive offering of residential cartridge filters meets or exceeds the requirements for both basic and premium point-of-use drinking water systems. Our sediment and carbon filters improve water taste and odor, as well as reduce sediment, lead, cysts, chlorine and volatile organic chemicals from potable water supplies.

Particle Range Filtration

Both our sediment and carbon cartridge filters offer a wide range of particle filtration. This Filtration Spectrum shows the relative sizes of common materials that are separated from water.



Melt-Blown Technology Ensures High Performance

Melt-blowing technology is used to manufacture all our sediment cartridge filters – regarded as the leading technology for fabricating this type of filter. These filters feature a graded density that uses the entire depth of the filter to trap sediment, translating into higher dirt-holding capacity. Other features include:

- thermally bonded fibers will not migrate into water
- filters available from 1 to 25 microns
- broad chemical compatibility

Melt-blown polypropylene cartridges offer a self-supporting, thermally fused filter media that requires no separate center support tube. No adhesives, binding agents or anti-static agents are used.

Carbon Block Design for Quality and Convenience

Our carbon block cartridge filters offer a strong, uniform filter medium that prevents channeling, fluidizing or bypassing, thus providing optimal performance. The performance capabilities of activated carbon block filters typically exceed granular activated carbon (GAC) filters. In addition, our filters feature:

- performance capabilities meet or exceed competition
- wide range of chemical reduction capabilities
- color-coded end caps for easy model identification

GE Water Technologies also offers a full line of carbon filters with smaller diameters, allowing installation into slim-style housings, while still maintaining the performance capabilities of full-sized filters.

GE Water Technologies filters are manufactured from FDA accepted materials.

Residential Filter Cartridges

Nominal Rated Filters for Sediment Removal

GE Water Technologies line of MB filters offer superior performance and lead the market in price and value.

MODEL NUMBER	PART NUMBER	FILTER TYPE	MICRON	SIZE IN/CM
MB-01-10	1013238	Sediment	1	2.5 x 9.875 / 6.35 x 25.08
MB-01-20	1013239	Sediment	1	2.5 x 20 / 6.35 x 50.8
MB-05-10	1013231	Sediment	5	2.5 x 9.875 / 6.35 x 25.08
MB-05-20	1013240	Sediment	5	2.5 x 20 / 6.35 x 50.8
MB-10-10	1013241	Sediment	10	2.5 x 9.875 / 6.35 x 25.08
MB-10-20	1013242	Sediment	10	2.5 x 20 / 6.35 x 50.8
MB-25-10	1013232	Sediment	25	2.5 x 9.875 / 6.35 x 25.08
MB-25-20	1013243	Sediment	25	2.5 x 20 / 6.35 x 50.8



Absolute Rated Filters

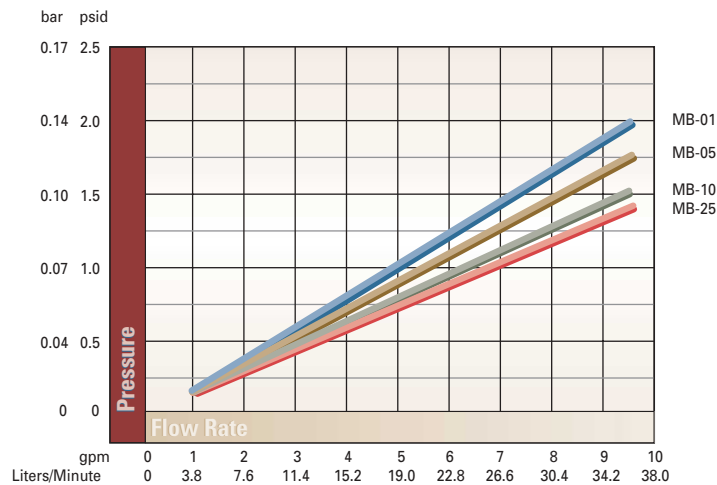
GE Water Technologies household cyst filters feature an absolute rating for removal of cysts down to one micron. End caps are embedded into the filter media to ensure seal integrity for absolute filtration.

MODEL NUMBER	PART NUMBER	FILTER TYPE	MICRON	SIZE IN/CM
P-MBC-01-10	1013230	Sediment/Cyst	1	2.5 x 9.875 / 6.35 x 25.08
P-MBC-10-20	1013237	Sediment/Cyst	1	2.5 x 20 / 6.35 x 50.8



NOTE: GE Water Technologies line of MB filters are ANSI/NSF Standard 42 listed for materials extraction safety.

Sediment Filter Performance



Residential Filter Cartridges

Premium: Taste, Odor, Lead and VOC's Removal

GE Water Technologies premium carbon block filters are designed to retrofit into most standard and slim 10-inch housings. Carbon block offers a strong, uniform, permeable filter medium that prevents channeling, bypassing or fluidizing throughout the service life. The carbon core is wrapped with a protective layer of spun polypropylene that removes silt-sized particles and extends filter life. Outer netting offers protection from abrasion during shipping and handling. Color-coded end caps are securely bonded with a hot-melt adhesive. The Series 2498 carbon filters pack superior performance into a slim design that meets or exceeds the capabilities of a full-sized filter.



MODEL NUMBER	PART NUMBER	FILTER TYPE	MICRON NOM.	END CAP COLOR	FLOW RATE GPM	FILTER CAPACITY	SIZE IN/CM
KSTO-2498	1013268	Standard Taste/Odor	10	Black	1.0	2000 gal (7.57 m ³)	2.4 x 9.81 6.09 x 24.91
PDTO-2498	1013269	Premium Taste/Odor	1	Purple	1.0	5000 gal (18.92 m ³)	2.4 x 9.81 6.09 x 24.91
BCTO-2498	1013270	Cyst, Taste/Odor	1	Blue	1.0	5000 gal (18.92 m ³)	2.4 x 9.81 6.09 x 24.91
YLCT-2498	1013271	Lead, Cyst, Taste/Odor	0.5	Yellow	0.75	2000 gal (7.57 m ³)	2.4 x 9.81 6.09 x 24.91
GLVC-2498	1013272	VOC's, Lead, Cyst, Taste/Odor	0.5	Grey	0.50	1800 gal (6.81 m ³)	2.4 x 9.81 6.09 x 24.91

Chlorine reduction capacity achieved at 2 ppm challenge @ 0.75 gpm.

Lead reduction capacity achieved at 150 ppb challenge @ 0.75 gpm.

Note: The GLVC-2498 is configured as a twin pack and designed to operate as two filters in series.

Basic: Taste & Odor

The WCTO-2898 filter serves as an economical option for basic taste and odor reduction, while featuring the performance capabilities of carbon block. This filter is designed to fit into standard width housings.



MODEL NUMBER	EMS/SAP PART NO	FILTER TYPE	MICRON NOM.	END CAP COLOR	*RECOMMENDED FLOW RATE	FILTER CAPACITY	SIZE IN/CM
WCTO-2898	1013273	Basic Taste/Odor	5	White	1.0	1200 gal (4.54 m ³)	2.8 x 9.81 7.11 x 24.91

*The WCTO-2898 fits into the standard size 10-inch sump and is not intended for use in slim-style housings.

GE Water Technologies brand filters and membrane elements are not to be installed on microbiologically unsafe water supplies. GE Water Technologies membrane elements are not designed to sanitize water, remove cysts, bacteria, or viruses. Filter and element performance can be affected by fluctuations in water quality. Contact GE Water Technologies Household Water Group for additional information.

For More Information:

Call **GE Water Technologies Household Water Group** at **(262) 238-4400** or **(800) 279-9404**, or visit **www.gewater.com**



GE Water Technologies

North American Sales
5730 N. Glen Park Road
Milwaukee, WI
53209-4403
USA
(262) 238-4400 Phone
(262) 238-4402 Fax

Euro/Africa Sales
230 rue Robert Schuman
ZA des Uselles
77350 Le Mée sur Seine
FRANCE
+33 1 64 10 2000 Phone
+33 1 64 10 3747 Fax

Asia/Pacifics Sales
1044/8 SOI 44/2
Sukhumvit Road Parkanog
Bangkok 10110
THAILAND
+66 2 38 14213 Phone
+66 2 39 18183 Fax