



Service Carbon

Activated Carbon Tanks

Service Carbon is an economical and efficient process for removing chlorine, chloramines and dissolved organic contaminants from incoming water supplies. Our portable exchange units contain virgin carbon to assure maximum water quality and service life of the bed. No reactivated carbon is ever used in Mar Cor Purification’s service carbon units.

A significant component of the water treatment system is the exchange mixed bed ion exchange resin and activated carbon. Both of these components are processed at Mar Cor Purification. As part of the 510(k) assessment and inspection process, the resin and carbon production procedures at Mar Cor were evaluated for Good Management Practices (GMP) established in the Code of Federal Regulations (21 CFR 820) and for suitability against the quality standards of the Association for the Advancement of Medical Instrumentation (AAMI).

Customized systems allow for greater flexibility in order to achieve the necessary product water quality. We offer flexibility using Service Carbon commonly in connection with Service Deionization (SDI) systems while providing a wide variety of replacement filter cartridges, membranes, parts, and accessories including service contracts to keep facilities up and running.

Tank Specifications

- Construction Fiberglass
- Head..... PVC
- Internals PVC
- Fittings..... See Chart
- Media Acid Washed Carbon
 12x40 mesh, Iodine #1000

Operating Parameters

- Max. Operating Pressure & Temperature
 0.25 - 3.6 ft³ 90 psi/100°F
- Turbidity..... 5 NTU
- Color..... 5 units
- Organics 3 ppm
- Manganese and Iron 0.3 ppm

Typical Applications

- General Industry
- Hemodialysis and Life Sciences
- Laboratory
- Microelectronics
- Rinsing
- Pharmaceutical / Biotech

Service Carbon Specifications

Model Number	Max. Flow Rate USGPM (LPM)	Resin Volume (ft ³)	Inlet / Outlet Ports	Dimensions W x H (Inch)	Weight (Wet) Lbs. (kg)
6 x 18C	2.0 (7.6)	0.25	SIDE 3/4" MGHT	7 x 20	25 (11.3)
8 x 18C	2.0 (7.6)	0.50	SIDE 3/4" MGHT	9 x 20	32 (14.5)
6 x 35C	2.5 (9.5)	0.50	SIDE 3/4" MGHT	7 x 37	73 (33.1)
8 x 44C	4.0 (15.1)	1.25	SIDE 3/4" MGHT	9 x 46	135 (61.3)
12 x 36C	7.0 (26.5)	2.20	TOP 3/4" MGHT	13 x 38	198 (89.9)
14 x 47C	10.0 (37.9)	3.60	TOP 1" QD	15 x 52	305 (138.5)

Note: All weights and dimensions are approximate. Higher flow rates can be obtained with parallel configurations. Jumbo tanks are available upon request.

Accessories Available

- Pre and post filters
- Pressure regulators
- Pressure gauges
- Sample ports
- Water meters
- Ultraviolet lights

Installation Considerations

- System operates on tap pressure, within a pressure range of 25-60 psi and a maximum pressure of 90 psi.
- The system must be installed on a firm, level surface.
- A floor drain is recommended.
- Accessories may require electrical connections.

Service Policy

Mar Cor Purification offers carbon exchange services. This service is conducted at Mar Cor Purification owned and operated facilities in Philadelphia, Atlanta, and Chicago. Our facilities only handle carbon that has a 12x40 mesh size with an iodine number of at least 1000. The carbon is acid-washed, virgin; GAC made from select bituminous coal. Mar Cor Purification does not reuse carbon at any time during its processes. All tanks are considered rental and will remain the property of Mar Cor Purification unless structured otherwise. We offer 24/7 service from any of our US service centers.

Hemodialysis

For dialysis applications, Mar Cor suggest that 2 carbon tanks sized for 5 minutes of empty bed contact time each are used and that daily samples are taken from a sample valve located in between the 2 tanks. $EBCT = VGAC \times 7.48 / \text{flow rate in USGPM}$.

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